WAVE & TIDAL POWER RESEARCH REVIEW 2013

1. **Research Review for Calendar 2012**

International Journal of Renewable Energy Research	Bibliography
International Journal of Renewable Energy Technology	Bibliography
Journal of Alternate Energy Sources and Technologies	Bibliography
Journal of Energy Engineering	Bibliography
Journal of Marine Engineering and Technology	Bibliography
Journal of Renewable Power Generation	Bibliography
Journal of Technology Innovations in Renewable Energy	Bibliography
Open Renewable Energy Journal	Bibliography
Renewable and Sustainable Energy Reviews	Bibliography
Renewable Energy	Bibliography

2. Conferences
3. Renewable Energy Books
4. Wave Power Books
5. Tidal Power Books
6. Renewable Energy Postgraduate Courses UK
7. Wave Power Technologies
8. Tidal Power Technologieses
9. Other Useful LInks
10. Bibliography for Calendar 2012

published in association with

reNews

Welcome to the first edition of what will become a series of completely free annual **Renewable Energy Research Reviews**. These Reviews provide the very latest and up-to-date access to all of the important industry developments, to the literature in both Journals and books, and to the content and availability of University programmes. This edition focuses on Wave and Tidal power, but companion editions covering wind and solar will be introduced during 2014.

These new reviews are designed to make use of the increasing speed and sophistication of internet technologies and to recognise the increasing number of on-line research journals offering open access to the original papers. In this edition we list more than 1,500 papers published during calendar 2012 in the main journals and have authoritatively identified the 50 or so of direct relevance to wave and tidal power.

Simply having the pdf as a desktop shortcut will permit those working in the industry and those teaching or studying the subject immediate access to all of this information through a few key strokes.

If you have any questions, corrections, omissions or suggestions, please contact my editorial team directly on

j.hardisty@hull.ac.uk

If you are a site or technology developer or supply chain and servicing organisation, consultancy or a publisher, programme director or conference organiser and would like to advertise in forthcoming editions, please contact Cassi Davison at **reNews** on +44 (0) 1962 890 440

cassi@reNews.biz

If you have any technical queries about the site, downloads or the pdf edition of these reviews contact

office@renewable-energy-research-reviews.com

Finally, if you like the fast and free access to information provided by these publications, please pass the web site on to friends and colleagues

Best wishes

Professor Jack Hardisty,
Managing Editor
The University of Hull, HU6 7RX, UK

2014 Publishing Schedule

Wave and Tidal Power Research Review 2014	Thursday 6th February
Wind Power Research Review 2014	Thursday 13th February
Solar Power Research Review 2014	Thursday 20th February

All will be available for free download from

www.renewable-energy-research-reviews.com

FRONT

reNews is the No.1 source for news on the Renewable Energy industry. Published and digitally distributed twice a month, it covers all the renewable energy sectors including onshore and offshore wind, wave and tidal, hydro, solar and biomass.

Subscribers receive 24 issues a year plus 7 comprehensive and forward-looking annual reports: *Marine (Wave & Tidal), Offshore Wind, England & Wales Onshore Wind, Small Wind, Scotland, Ireland and Canada*. These reports focus on construction, development, manufacturing, transmission and other issues crucial to the future of these growing sectors.

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2. CONFERENCES

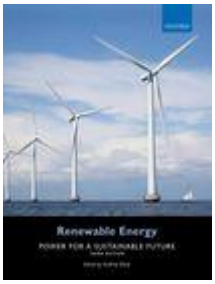
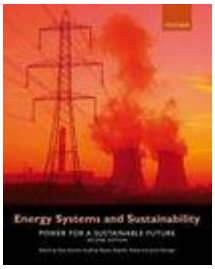
RETECH 2013 5th Annual Renewable Energy Technology Conference & Exhibition	**Renewable Energy Technology Conference** 9th – 11th September 2013 Washington DC http://www.retech2013.com/?hq_e=el&hq_m=2728551&hq_l=1&hq_v=a29630c19c
THE RENEWABLES EVENT	**The Renewables Event** 10th – 11th September 2013 NEC, Birmingham, UK http://www.therenewablesevent.com/page.cfm/Link=84?WT.mc_id=vppc
TIDAL TODAY	**International Tidal Energy Summit 2013** 25th – 27th November 2013 Victoria Park Plaza Hotel, London, UK http://www.tidaltoday.com/tidal-conference/
renewableUK The voice of wind & marine energy	**RenewableUK Wave and Tidal** 26th – 27th February 2014 Belfast, Northern Ireland http://www.renewableuk.com/en/events/conferences-and-exhibitions/
ALL-ENERGY2014 EXHIBITION & CONFERENCE 21-22 MAY 2014, ABERDEEN, UK	**ALL ENERGY - 2014** 21st – 22nd May 2014 Aberdeen, Scotland http://www.all-energy.co.uk/Home/
RENEWABLE ENERGY WORLD CONFERENCE & EXPO EUROPE	**Renewable Energy World - Europe** 3rd – 5th June 2014 Cologne http://www.renewableenergyworld-europe.com/index.html
REA RENEWABLE ENERGY ASSOCIATION	**Renewable Energy Association Meetings** Throughout 2013-14 Various http://www.r-e-a.net/events

TEST CENTRES

EMEC ORKNEY The European Marine Energy Centre Ltd	**European Marine Energy Centre (EMEC)** Orkney, Scotland Licenced and grid-connected, open-sea wave and tidal test sites http://www.emec.org.uk/
Wave Hub	**Wave Hub** Cornwall, SW England Grid connected offshore wave bays http://www.wavehub.co.uk/
narec	**National Renewable Energy Centre (narec)** Blyth, NW England Onshore and offshore test facilities for wind and tidal power http://www.narec.co.uk//
SUPERGEN UKCMER	**UK Centre for Marine Energy Research (UKMER)** Edinburgh, Scotland UKRC funded University consortia research projects http://www.supergen-marine.org.uk/drupal/

FRONT

3. RENEWABLE ENERGY BOOKS

	**Renewable Energy: Power for a Sustainable Future** **Booksellers** : Third Edition **Godfrey Boyle, Editor** **Oxford University Press/Open University, 383pp, September 2012** Covers all principal sources of renewable energy currently being exploited. Considers economic, social, environmental and policy issues. Detailed colour illustrations, together with tables of data, support comprehensive analysis of the relevant disciplines.
	**Energy Systems and Sustainability: Power for a Sustainable Future** **Booksellers** : Second Edition **Bob Everett, Godfrey Boyle, Stephen Peake and Janet Ramage** **Oxford University Press/Open University, 672pp, December 2011** The only text to provide a fresh, contemporary perspective on energy and sustainability for an undergraduate audience Includes extensive coverage of both fossil fuels and nuclear power, but in the context of an increasing use of renewable energy
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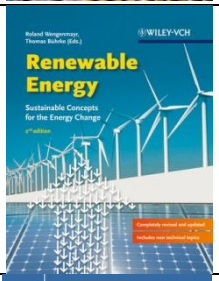
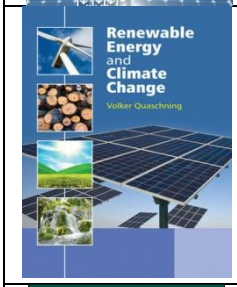
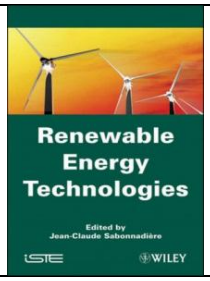
	**Renewable Energy: Sustainable Concepts for the Energy Change** **Booksellers** : Second Edition **Roland Wengenmayr, Thomas Bührke and William D. Brewer** **Wiley, 170pp, November 2012** The editors are experienced journalists and illustrate the text with simple diagrams and information boxes, printed in full-color throughout. A valuable resource for applied physicists, engineers in power technology, engineers, and anyone interested in natural sciences.
	**Renewable Energy and Climate Change** **Booksellers** **Volker Quaschning** **Wiley, 320pp, November 2010** Solar thermal, photovoltaic, wind, hydro, biomass and geothermal energy receive balanced treatment with one exciting and informative chapter devoted to each. There is also a cllear analysis on their development potentials and an evaluation of the economic aspects involved.
	**Renewable Energy Technologies** **Booksellers** : Second Edition **Jean-Claude Sabonnadière** **Wiley, July 2009** This book deals with the emerging generation of renewable energy technologies, covering solar energy (photovoltaic, thermal and thermodynamic energy conversion), wind energy, marine energy, small hydropower, geothermal energy, biofuels, biogas and the use of wood as a substitute for fossil fuels.

FRONT

Alphabetical by first author and year.

From Google: http://books.google.co.uk/books/about/Renewable_Energy_2E.html?id=TrewQgAACAAJ&redir_esc=y

Energy Science: Principles, Technologies and Impacts
Andrews, J. and N. Jelley, 2013. Oxford University Press

Energy Systems and Sustinability
Boyle, G., R. Everett and J.Ramage, 2003. Oxford University Press

Renewable Electricity and the Grid: the challenge of variability
Boyle, G., 2007. Earthscan

Renewable Energy: power for a sustainable future
Boyle, G., 2012. Open University

Renewable Energy in non-technical languge.
Chambers, A., 2004. Panwell Books

Energy Systems and Sustainability: Power for a Sustainable Future
Everrett, R., G.Boyle, S.Peake and J.Ramage

Renewable Energy: sources for fuels and electricity
Johansson, T.B. and L.Burnham, 1993. Island Press

Renewable Energy: technology, economics and environment
Kaltschmitt, W., W.Streicher and A.Wiese, 2007. Springer

The Renewable Energy Handbook
Kemp, W.H., 2005. Aztext Press

Renewable Energy Policy
Komor, P., 2004. iUniverse

Renewable Energy Sources and Emerging Technologies
Kothari, D.P., K.C.Singal and R.Ranjan, PHI Learning

Renewable Energy Sources. Watt Committee Report 22.
Laughton, M.A., 2004. Taylor and Francis

Introduction to Renewable Energy
Nelson, V., 2011. CRC

Renewable Energy: market and policy trends in IEA countries
OECD, 2004. OECD Publishing

Fundamentals of Renewable Energy Processes
da Rosa, A.V., 2009. Academic Press.

The Solar Economy: renewable energy for a sustainable future.
Scheer, H., 2004. Earthscan

Powering Our Future: an energy sourcebook for sutainable living
Smith, K.K., 2005. iUniverse

Renewable Energy: it's physics, engineering, use, environmental impacts, economy and planning aspects
Sorensen, B., 2004. Academic Press

Renewable Energy Resources
Twidell, J. and A.D.Weir, 1986. Taylor and Francis

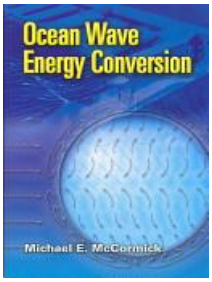
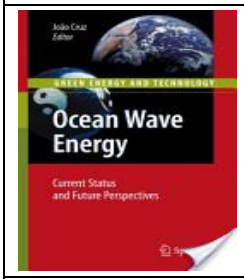
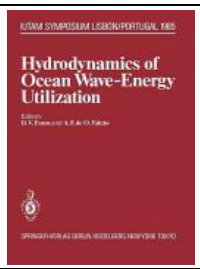
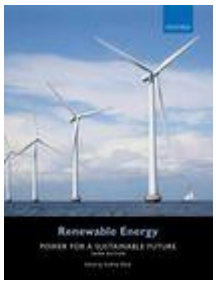
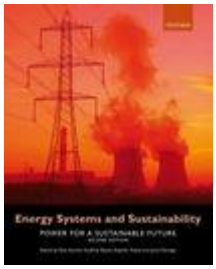
Renewable Energy: sustainable energy concepts for the future
Wengenmayr, R. And T.Blake, 2011. Wiley

Renewable Energy: sources and methods
Maczulak, A.E., 2010. Infobase

Understanding Renewable Energy Systems
Quaschning, W., 2005. Earthscan

FRONT

4. WAVE POWER BOOKS

	**Ocean Wave Energy Conversion** **Booksellers** **Michael McCormick** **Dover Publications, 233pp, 2007** This volume will prove of vital interest to those studying renewable resources It presents physical and mathematical descriptions of the nine generic wave energy conversion techniques, along with their uses and performance characteristics, plus several electro-mechanical energy conversion techniques and worked examples.
	**Ocean Wave Energy** **Booksellers** **Various** **Springer, 443pp, 2007** The authors of this reference provide an updated and global view on ocean wave energy conversion for wave energy developers as well as for students and professors. The book is orientated to the practical solutions that this new industry has found so far and the problems that any device needs to face.
	**Hydrodynamics of Ocean Wave Energy Utilization** **Booksellers** **David Evans and Antonio Falcao** **Springer, 472pp, 2011**
	**Renewable Energy: Power for a Sustainable Future** **Booksellers** **:** Third Edition **Godfrey Boyle, Editor** **Oxford University Press/Open University, 383pp, September 2012** Covers all principal sources of renewable energy currently being exploited. Considers economic, social, environmental and policy issues. Detailed colour illustrations, together with tables of data, support comprehensive analysis of the relevant disciplines.
	**Energy Systems and Sustainability: Power for a Sustainable Future** **Booksellers** **:** Second Edition **Bob Everett, Godfrey Boyle, Stephen Peake and Janet Ramage** **Oxford University Press/Open University, 672pp, December 2011** The only text to provide a fresh, contemporary perspective on energy and sustainability for an undergraduate audience Includes extensive coverage of both fossil fuels and nuclear power, but in the context of an increasing use of renewable energy
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Energy Science: Principles, Technologies and Impacts

Andrews, J. and N. Jelley, 2013. Oxford University Press

Renewable Energy: power for a sustainable future

Boyle, G., 2012. Open University

Wave Energy Conversion

Brooke, J., 2003. Elsevier

Ocean Energies: environmental, economic and technical aspects of alternative power sources

Charlier, R.H. and J.R.Justus, 1993. Elsevier

Ocean Wave Energy: current status and future perspectives

Cruz, J., 2008. Springer

Hydrodynamics of Ocean Wave-Energy Utilization

Evans, D.V., de Falceo, A.F., 2011. Springer

Energy Systems and Sustainability: Power for a Sustainable Future

Everrett, R., G.Boyle, S.Peake and J.Ramage

Ocean Waves and Oscillating Systems

Falnes, J., 2002. Cambridge University Press

Wave Power: moving towards commercial viability

Institute of Mechanical Engineers, 2000. Professional Engineering Publishing Ltd

Wind *Waves*: Their Generation and Propagation on the *Ocean* Surfaces

Kinsman, B., 2002. Dover

Wind Waves in Oceans: dynamics and numerical simulations

Levrenov, I., 2003. Springer

Utilization of Ocean Wave- wave to energy conversion

McCormick, M.E., C.K.Young, 1987. ASCE Publications.

Ocean Wave Energy Conversion

McCormick, M.E., 2007. Dover

Power from the Waves

Ross, D., 1995. Oxford University Press

Ocean Energy Recovery

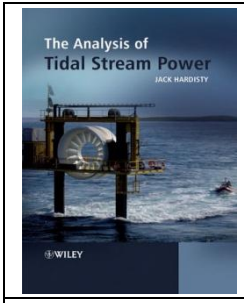
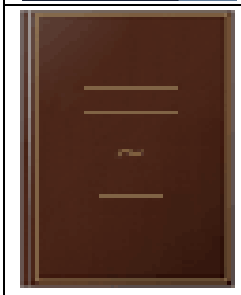
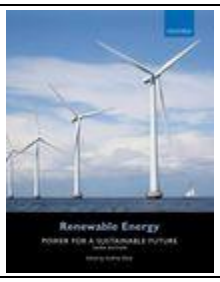
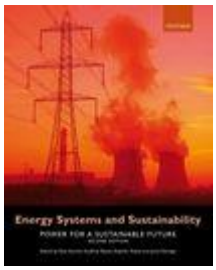
Seymour, R.J., 1993. ASCE Publications

Ocean Energy

US Government, 2011.

FRONT

5. TIDAL POWER BOOKS

	**The Analysis of Tidal Stream Power** **Booksellers** **Jack Hardisty** **Wiley, 320pp, February 2009** *The Analysis of Tidal Stream Power* integrates a wide range of research and tidal resource theory and data to present, for the first time, a detailed analysis of the physics and oceanography of tidal stream power devices. The book also analyses more than two thousand tidal flow records from around the world's ocean to provide the first global assessment of the resource
	**Tidal Power** **Booksellers** **Yulia V. Karakeyan** **Wiley, 320pp, February 2009** The energy available from water currents is potentially much greater than society's needs. Presenting a detailed discussion of the costs, risks, and challenges of building power plants that run on hydropower, this highly technical explanation of tidal power plants offers engineers practical applications of highly efficient and cost-effective power systems.
	**Renewable Energy: Power for a Sustainable Future** **Booksellers** **:** Third Edition **Godfrey Boyle, Editor** **Oxford University Press/Open University, 383pp, September 2012** Covers all principal sources of renewable energy currently being exploited. Considers economic, social, environmental and policy issues. Detailed colour illustrations, together with tables of data, support comprehensive analysis of the relevant disciplines.
	**Energy Systems and Sustainability: Power for a Sustainable Future** **Booksellers** **:** Second Edition **Bob Everett, Godfrey Boyle, Stephen Peake and Janet Ramage** **Oxford University Press/Open University, 672pp, December 2011** The only text to provide a fresh, contemporary perspective on energy and sustainability for an undergraduate audience Includes extensive coverage of both fossil fuels and nuclear power, but in the context of an increasing use of renewable energy
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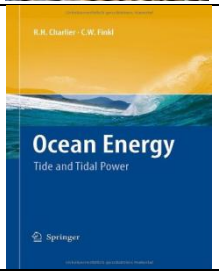
	**Ocean** Energy: Tide and Tidal Power **Booksellers** **R Charlier and C Finkl** **Springer, 2009** Tidal power has enormous potential. The book reviews recent progress in extracting power from the ocean, surveys the history of tidal power harnessing and updates a prior publication by the author.

FRONT

Alphabetical by first author and year.

Energy Science: Principles, Technologies and Impacts

Andrews, J. and N. Jelley, 2013. Oxford University Press

Tidal Power

Baker, A.C., 1991. IET

Renewable Energy: power for a sustainable future

Boyle, G., 2012. Open University

Ocean Energy: tide and tidal power

Charlier, R.H. and C.W.Finkl, 2009. Springer

Tidal Power: trends and development

Clare, R., 1992. ICE Library

Elements of Tidal Electric Engineering

Clark, R.H., 2007. Wiley

Energy Systems and Sustainability: Power for a Sustainable Future

Everrett, R., G.Boyle, S.Peake and J.Ramage

The Analysis of Tidal Stream Power

Hardisty, J., 2009. Wiley

Developments in Tidal Energy

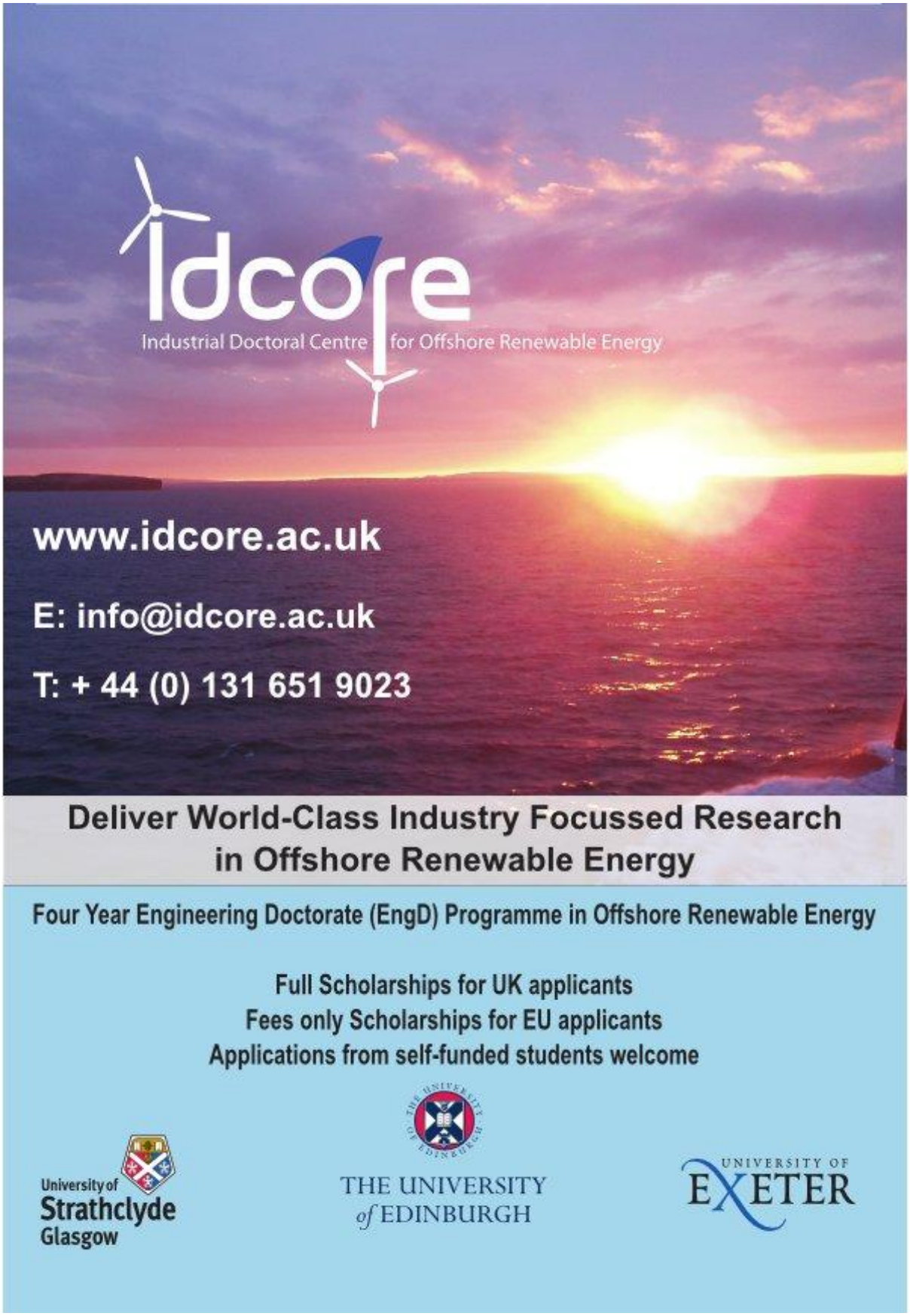
ICE, 1990. Thomas Telford

Ocean Energy Recovery

Seymour, R.J., 1993. ASCE Publications

Tidal Power: tides and their measurement

Struben, A.M.A., 1921. Reproduction 2012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6. POSTGRADUATE COURSES UK

Abstracted and edited from **Masters Programmes**

Aberdeen University Graduate School - College of Arts & Social Sciences
- Climate Change Law and Sustainable Development LLM (January or September start)

Aberdeen University Graduate School - College of Physical Sciences
- Renewable Energy

Abertay, Dundee, University of. School of Contemporary Sciences
- MSc Renewable Bio-Energy

Brunel University School of Engineering and Design
- MSc Renewable Energy Engineering
- MSc Sustainable Electrical Power
- MSc Sustainable Energy - Technologies and Management

Cardiff University Cardiff School of Engineering
- Sustainable Energy and Environment (MSc)

Cardiff University Welsh School of Architecture
- Sustainable Energy and Environment (MSc)

Centre for Alternative Technology Graduate School of the Environment
- MSc Architecture: Advanced Environmental and Energy Studies (Sustainable Architecture)
- MSc Renewable Energy and the Built Environment

City University London School of Engineering & Mathematical Sciences
- MSc Energy, Environmental Technology and Economics
- MSc Renewable Energy and Power Systems Management

Coventry University Faculty of Business, Environment and Society
- MSc in Environmental Management

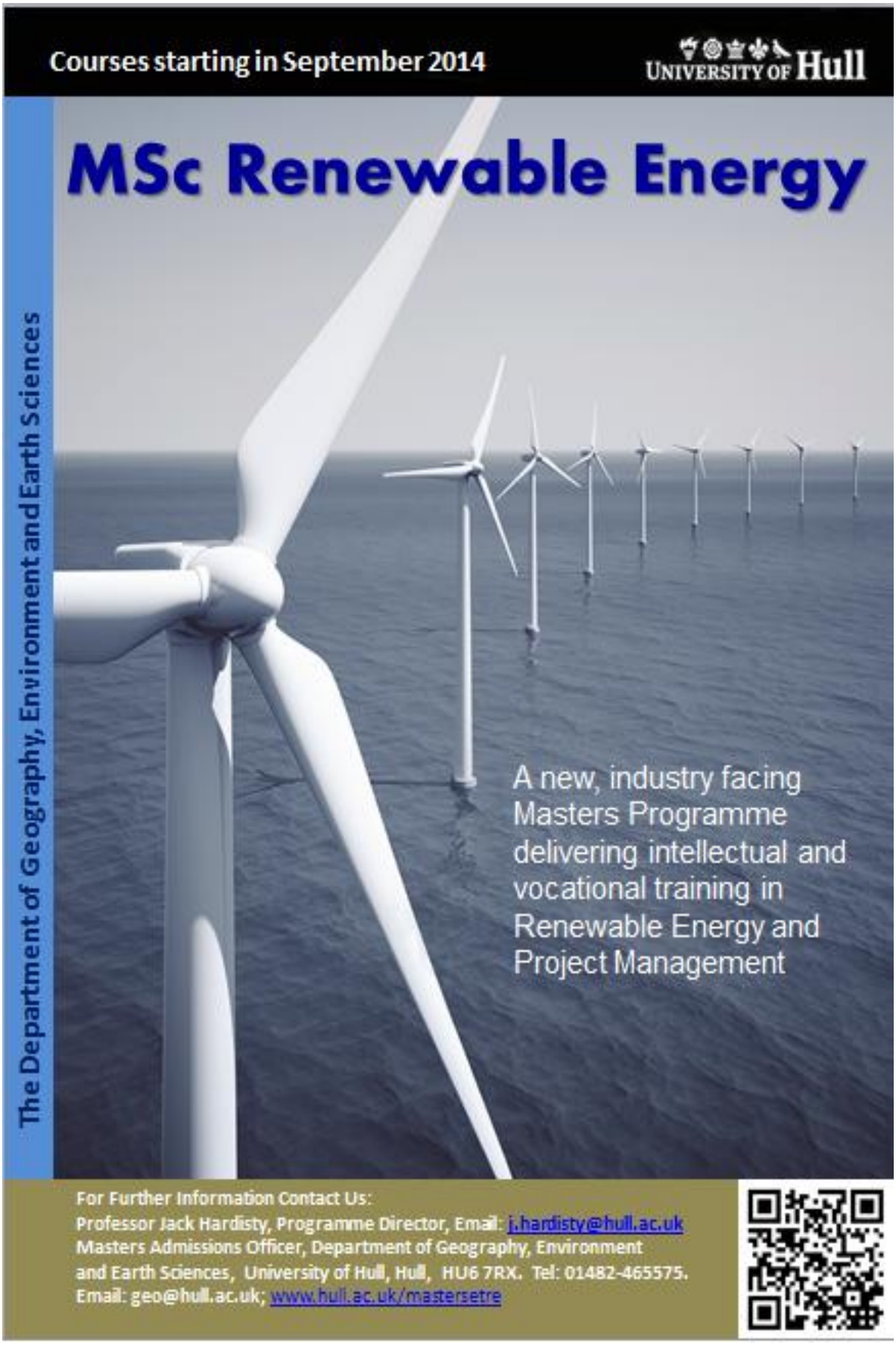
Cranfield University School of Applied Sciences
- Energy Supply for Low Carbon Futures MSc/PgDip/PgCert
- Offshore and Ocean Technology with Offshore Renewable Energy MSc/MTech/PGDip/PGCert
- Offshore and Ocean Technology with Risk Management MSc/MTech/PGDip/PGCert

Cranfield University School of Engineering
- Biofuels Process Engineering MSc/PgDip/PgCert
- Carbon Capture and Transport MSc
- Renewable Energy Engineering MSc

De Montfort University Institute of Energy and Sustainable Development
- MSc Climate Change and Sustainable Development
- MSc Energy and Industrial Sustainabilty
- MSc Energy and Sustainable Building Design

Dundee, University of School of Engineering, Physics and Mathematics
- MSc Renewable Energy and Environmental Modelling

FRONT



www.hull.ac.uk/mastersetre

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Dundee, University of. School of the Environment

MSc Advanced Sustainability of the Built Environment

MSc Design & Construction of Zero Carbon and Ultra-Low Energy Buildings

MSc Renewable Energy & Sustainable Building in a Global Context

Durham University. Department of Anthropology

MSc in Energy and Society

Durham University. School of Engineering

New and Renewable Energy

East London, University of School of Architecture, Computing and Engineering

MSc Renewable Energy and the Built Environment (CAT)

Edinburgh, University of. Industrial Doctoral Centre for Offshore Renewable Energy

EngD in Offshore Renewable Energy

Edinburgh, University of. School of Engineering

MSc Sustainable Energy Systems

Edinburgh Napier University School of Engineering and the Built Environment

MSc Energy & Environmental Engineering

MSc Environmental Sustainability

MSc Renewable Energy

Exeter, University of. College of Engineering, Mathematics & Physical Sciences

EngD Offshore Renewable Energy

Glasgow, University of. College of Science and Engineering

MSc Sustainable Energy

Glasgow, University of. College of Social Sciences

MSc Environmental Science, Technology & Society (Dumfries Campus)

Glasgow Caledonian University School of Engineering and Built Environment

MSc Sustainable Energy Technology

Heriot-Watt University Institute for Petroleum Engineering

Marine Renewable Energy MSc/Diploma

Heriot-Watt University School of Engineering and Physical Sciences

Renewable Energy & Distributed Generation

Renewable Energy Engineering

Highlands and Islands, University of the. Masters Programmes

MSc Sustainable Energy Solutions

Hull, University of. Department of Geography, Environment and Earth Sciences

MSc Environmental Technology

MSc Environmental Technology (Renewable Energy)

Imperial College London Department of Chemistry

MRes in Green Chemistry, Energy and the Environment

Kingston University Faculty of Science, Engineering and Computing

Renewable Energy Engineering MSc

FRONT

Lancaster University Lancaster Environment Centre

Energy and the Environment

Leeds, University of. Faculty of Engineering

MSc Electrical Engineering and Renewable Energy Systems

MSc Energy and Environment

Liverpool, University of. Department of Engineering

MSc (Eng) Energy Generation

London South Bank University Faculty of Engineering, Science & the Built Environment

MSc Sustainable Energy Systems

Loughborough University Department of Electronic and Electrical Engineering

European Master in Renewable Energy

Renewable Energy Systems Technology

Renewable Energy Systems Technology (Distance Learning)

Manchester, **University of.** School of Electrical and Electronic Engineering

Renewable Energy and Clean Technology (REaCT)

Newcastle University School of Architecture, Planning and Landscape

MSc Planning for Sustainability and Climate Change

Newcastle University School of Chemical Engineering and Advanced Materials

MSc/PGDip Sustainable Chemical Engineering

Newcastle University School of Marine Science and Technology

MPhil Marine Technology

MSc Offshore Engineering

Newcastle University Sir Joseph Swan Institute for Energy Research

MPhil Energy

MSc/PGDip/PGCert/CPD Renewable Energy Flexible Training Programme (REFLEX)

MSc; PGDip; PGCert Renewable Energy Enterprise and Management (REEM)

Northumbria University Faculty of Engineering and Environment

Electrical Power Engineering MSc

Renewable and Sustainable Energy Technologies MSc

Nottingham, University of. Department of Architecture and Built Environment

Energy Conversion and Management (MSc)

Sustainable Energy and Entrepreneurship (MSc)

Nottingham, University of. Department of Chemical & Environmental Engineering

Environmental Engineering (MSc)

Nottingham, University of Department of Electrical and Electronic Engineering

Electrical Engineering for Sustainable and Renewable Energy (MSc)

Plymouth University Faculty of Science and Technology

Marine Renewable Energy

Queen's University Belfast School of Biological Sciences

MSc Sustainable Rural Development and Project Management

Reading, University of. School of Construction Management & Engineering

MSc/PGD Renewable Energy: Technology and Sustainability

FRONT

Robert Gordon University School of Applied Social Sciences

MSc Corporate Social Responsibility and Energy

SOAS, University of London Centre for International Studies and Diplomacy

MSc Global Energy and Climate Policy

Southampton, University of. Engineering and the Environment

MSc Sustainable Energy Technologies

South Wales, University of Glyntaff campus, Pontypridd

MSc Renewable Energy and Resource Management

South Wales, University of. Treforest campus, Pontypridd

MSc Energy Systems Engineering

MSc Sustainable Power Technology

Stirling, University of Department of Economics

MSc Energy Management

Stirling, University of. School of Biological and Environmental Sciences

MSc in Energy and the Environment

Strathclyde, University of. Department of Civil and Environmental Engineering

MSc Environmental Entrepreneurship

Strathclyde, University of. Department of Mechanical & Aerospace Engineering

MSc / PgDip Sustainable Engineering: Renewable Energy Systems and the Environment

Strathclyde, University of. Naval Architecture and Marine Engineering (NAME)

MSc/ PgDip/ PgCert Marine Technology

MSc/ PgDip/ PgCert Offshore Renewable Energy

Surrey, University of. Faculty of Engineering & Physical Sciences

MSc Process and Environmental Systems Engineering

MSc Renewable Energy Systems Engineering

Sussex, University of. School of Engineering and Informatics

MSc in Sustainable Energy Technology

Sussex, University of. School of Global Studies

MSc Climate Change and Policy

MSc in Climate Change and Development

Swansea University College of Engineering

Electronics Technology for Sustainable Energy MSc

Teesside University School of Science and Engineering

MSc Energy and Environmental Management

Ulster, University of. Institute of Lifelong Learning

Renewable Energy and Energy Management PgDip/MSc

University College London Department of Chemistry

Materials for Energy and Environment (MSc)

West of England, University of the. Bristol Law School

LLM Environmental Law and Sustainable Development

West of England, University of the. Department of Geography and Environmental Management

MSc Air Quality and Carbon Management

FRONT

7. WAVE POWER TECHNOLOGIES

From EMEC 2013 http://www.emec.org.uk/marine-energy/wave-developers/

40South Energy
Floating Power Structure Italy and UK

Able Technologies L.L.C
Electric Generating Wave Pipe B USA

AeroVironment Inc
eel Grass B USA

AlbaTERN
Squid A UK

Applied Technologies Company Ltd
Float Wave Electric Power Station B Russia

Aquamarine Power
Oyster C UK

Aqua-Magnetics Inc
Electric Buoy B USA

Arlas Invest
TUVALU B Spain

Atmocean
Atmocean B USA

Avium A.S.
Yeti Cluster System I Turkey

AW Energy
Waveroller C Finland

AWS Ocean Energy
Archimedes Wave Swing B UK

BioPower Systems Pty Ltd
bioWave C Australia

Blue Power Energy Ltd
B Ireland

Bourne Energy
OceanStar ocean power system A USA

Brandl Motor
Brandl Generator B Germany

Caley Ocean Systems
Wave Plane I UK/Denmark

Carnegie Wave Energy Limited
CETO (Cylindrical Energy Transfer Oscillator) B Australia

Checkmate Seaenergy UK Ltd
Anaconda G UK

College of the North Atlantic
SARAH Pump F Canada

Columbia Power Technologies
Direct Drive Permanent Magnet Linear Generator Buoy B USA

CorPower Ocean
CorPower Wave Energy Converter B Sweden C-Wave C-Wave A UK

Daedalus Informatics Ltd
Wave Energy Conversion Activator C Greece

Dartmouth Wave Energy
SeaRaser Buoy (seawater pump) B UK

Delbuoy
Wave Powered Desalination B USA

DEXA WAVE Energy Aps
DEXA WAVE Convertor A Denmark

Dresser-Rand
HydroAir D USA

Ecofys
Wave Rotor I Netherlands

Ecole Centrale de Nantes
SEAREV D France

Ecomerit Technologies
Centipod A USA

Ecotricity
Searaser B UK

Eco Wave Power
Wave Clapper / Power Wing I Israel

Edinburgh University
Sloped IPS Buoy A UK

ELGEN Wave
Horizon Platform B USA

Embley Energy
Sperboy B UK

Energias de Portugal
Foz do Douro breakwater D Portugal

ETYMOL
ETYMOL I Chile

Euro Wave Energy
Floating absorber B Norway

Float Inc.
Pneumatically Stabilized Platform B USA

Floating Power Plant A/S
Poseidon's Organ A Denmark

Fobox AS
FO3 D Norway

Fred Olsen Ltd
The B1 Buoy A Norway

Fred Olsen & Co./Ghent University
SEEWEC B Norway/EU

GEdwardCook
Floating Wave Generator A USA

Grays Harbor Ocean Energy Company
Titan Platform D USA Green Ocean Energy Ltd Wave Treader/ Ocean Treader A UK

Green Ocean Wave Energy
Ocean Wave Air Poston B USA

Greencat Renewables
Wave Turbine A UK

Greenheat Systems Ltd
Gentec WaTS I UK

Hann-Ocean
Drakoo B Singapore

HidroFlot SA
Hidroflot B Spain

Hydrocap Energy
Seacap B France

HydroGen
HydroGen 10 D France

Independent Natural Resources
SEADOG B USA

Indian Wave Energy Device
IWAVE B India

Ing Arvid Nesheim
Oscillating Device B Norway

Instituto Superior Tecnico
Pico OWC D Portugal

Intentium AS
Intentium Offshore Wave Energy Convertor I Norway

Interproject Service (IPS) AB
IPS OWEC Buoy B Sweden

JAMSTEC
Mighty Whale E Japan

Jospa Ltd
Irish Tube Compressor (ITC) I/E Ireland

Joules Energy Efficiency Services Ltd
TETRON B Ireland

Kinetic Wave Power
PowerGin E USA

Kneider Innovations
Wave Energy Propulsion A France

Lancaster University
PS Frog B England

Langlee Wave Power
Langlee System C Norway

Leancon Wave Energy
Multi Absorbing Wave Energy Convertor (MAWEC) D Denmark

M3 Wave, LLC
DMP Device F USA

Manchester Bobber
Manchester Bobber B UK

Martifer Energia
FLOW A Portugal

Motor Wave
Motor Wave B Hong Kong

Muroran Institute of Technology
Pendulor I Japan

Navatek Ltd
Navatek WEC A USA

Nodding Beam = Power
Nodding Beam I UK

Norwegian University of Science and Technology
CONWEC B Norway

Ocean Energy Industries Inc
WaveSurfer B USA

Ocean Energy Ltd
Ocean Energy Buoy D Ireland

Ocean Harvesting Technologies
Ocean Harvester B Sweden

Ocean Motion International
OMI Combined Energy System B USA

Ocean Navitas
Aegir Dynamo B UK

Ocean Power Technologies
Power Buoy B UK/USA

Ocean Wave Energy Company
OWEC B USA

Ocean Wavemaster Ltd
Wave Master I UK

Oceanic Power
SeaHeart B Spain

Oceanlinx
GreenWAVE / BlueWAVE D Australia

Oceantec Energias Marinas, S.L.
Oceantech Energy Convertor A Spain

Offshore Islands Limited
Wave Catcher I USA

Offshore Wave Energy Ltd
OWEL WEC C UK ORECon MRC 1000 D UK

Ocean Wave and Wind Energy (OWWE)
Wave Pump Rig B Norway

Ocean Wave and Wind Energy (OWWE)
OWWE-Rig (hybrid technology) E Norway

Pelagic Power AS
PelagicPower B Norway

Pelamis Wave Power
Pelamis A UK

PerpetuWave Power Pty Ltd
Hybrid Float A CA/USE

Portsmouth Innovation Ltd
Wavestore E UK

Purenco AS
Purenco WEC B Norway

Renewable Energy Pumps
Wave Water Pump (WWP) D USA

Resolute Marine Energy, Inc
Resolute WEC B USA

Ryokuseisha
WAG Buoy A Japan

Sara Ltd
MHD Wave Energy Conversion (MWEC) I USA

SDE
S.D.E C Israel

Seabased AB
Linear generator (Islandberg project) B Sweden

SeaNergy
SeaNergy F Israel

Sea Power Ltd
Sea Power Platform A Ireland

Seawood Designs Inc
SurfPower B Canada

SEEWEC Consortium
FO3 B UK

Snapper Consortium
Snapper B UK

Straum AS
OWC D Norway

SyncWave
SyncWave Power Resonator B Canada

T Sampath Kumar
Rock n Roll A India

Technalia
PSE-MAR A Spain

Trident Energy Ltd
Direct Thrust The Linear Generator B UK

University of Edinburgh
Salter's Duck A N.A.

Uppsala University
Seabased AB Wave Energy Convertor B Sweden

Vigor Wave Energy AB
Vigor Wave Energy Convertor A Sweden

Voith Hydro
Wavegen Limpet D UK

Vortex Oscillation Technology Ltd
Vortex oscillation A Russia

Wave Dragon
Wave Dragon E Wales

Wave Star Energy ApS
Wave Star B Denmark

Waveberg Development
Waveberg A USA

WaveBob Limited
Wave Bob B Ireland

WavePiston
WavePiston A Denmark

WavePlane Production
Wave Plane E Denmark

Waves 4 Power
WaveEL B Sweden

Wello OY
Penguin H Finland

FRONT

8. TIDAL POWER TECHNOLOGIES

From EMEC 2013

http://www.emec.org.uk/marine-energy/tidal-developers/

Alstom Hydro

Clean Current Tidal Turbine D France

Aquantis Inc

C-Plane B USA

Atlantis Resources Corp

AR-1000 A UK

Atlantisstrom

Atlantisstorm A Germany

Aquascientific

Aquascientific Turbine G UK

Balkee Tide and Wave Electricity Generator

TWPEG A Mauritius

BioPower System Pty Ltd

bioStream C Australia

Blue Energy

Blue Energy Ocean Turbine (Davis Hydro Turbine) B Canada

Bluewater

BlueTec A/B Netherlands BluStream MegaWatForce G France

Bourne Energy

CurrentStar / TidalStar / OceanStar A USA

Cetus Energy

Cetus Turbine A Australia

Clean Current Power Systems

Clean Current Tidal Turbine D Canada

Crest Energy

G New Zealand

Current2Current

Tidal Turbine B UK Current Power AB Current Power B Sweden

Ecofys

Wave Rotor A Netherlands

Edinburgh Designs

Vertical-axs, variable pitch tidal turbine B UK Edinburgh University Polo B UK

Elemental Energy Technologies Limited

SeaUrchin A/D Australia

Fieldstone Tidal Energy

Fieldstone Tidal Energy G USA

Firth Tidal Energy

Sea Caisson and Turbine System (SEACATS) A UK

Flumill

Flumill Power Tower E Norway

Free Flow 69

Osprey A USA

Free Flow Power Corporation

SmarTurbine A USA GCK Technology Gorlov Turbine B USA

Greener Works Limited

Relentless™ Turbine G UK

Greenheat Systems Ltd

Gentec Venturi G UK

Hales Energy Ltd

Hales Tidal Turbine B/D UK

Hammerfest Strom

Tidal Stream Turbine A Norway

Hydro Green Energy

Hydrokinetic D USA

Hydro-Gen

Hydro-gen G France

HydroCoil Power, Inc

HydroCoil G USA

Hydrokinetic Laboratory

HyPEG A USA

Hydromine

The Hydro Mine G UK

Hydroventuri

Rochester Venturi D UK

Hydrovolts Inc

Hydrovolts B USA

Ing Arvid Nesheim

Waterturbine G Norway

Kepler Energy

Transverse Horizontal Axis Water Turbine (THWAT) B UK

Kinetic Energy Systems

Hydrokinetic Generator, KESC Bowsprit Generator, KESC Tidal Generator A USA

Lucid Energy Technologies

Gorlov Helical Turbine (GHT) B USA

Magallanes Renovables

Magallanes Project A Spain

Marine Current Turbines

Seagen, Seaflow A UK

Minesto

Deep Green Technology G Sweden

Natural Currents

Red Hawk G USA

Nautricity Ltd

CoRMat A UK

Neo-Aerodynamic Ltd

Neo-Aerodynamic B USA

Neptune Systems

Tide Current Converter G Netherlands

New Energy Crop.

EnCurrent Vertical Axis Hydro Turbine B Canada

Norwegian Ocean Power

The Pulsus Turbine G Norway

Ocean Flow Energy

Evopod A UK

Ocean Renewable Power Company

OCGen G USA

Oceana Energy Company

TIDES A USA

Offshore Islands Ltd

Current Catcher A USA

OpenHydro

Open Centre Turbine A Ireland

Ponte di Archimede

Kobold Turbine / Enermar G/B Italy

Pulse Tidal

Pulse-Stream C UK

Robert Gordon University

Sea Snail A UK Rotech Rotech Tidal Turbine (RTT) A UK Rugged Renewables Savonius turbine G UK

SABELLA SAS

Hydro-Helix A France

Scotrenewables

SR250 A UK

SMD Hydrovision

TiDEL A UK

Sustainable Marine Technologies (SMT)

PLAT-O A UK Starfish Electronics Ltd StarTider A UK

Statkraft

Tidevanndkraft A Norway

Swanturbines

Swan Turbine A UK

Teamwork Tech

Torcado A Netherlands

The Engineering Buisiness

Stingray C UK

Tidal Electric

Tidal Lagoons G UK/USA

Tidal Energy Ltd

Delta Stream A UK

Tidal Energy Systems Corporation

Foil Rotor III D USA

Tidal Energy Pty Ltd

DHV Turbine B Australia

Tidal Generation Limited

Deep-gen A UK

Tidal Sails

Tidal Sails AS G Norway

TidalStream

TidalStream Triton Platform A UK

Tidebg

Tideng A Denmark

Tocardo BV

Tocardo Turbines A Netherlands

UEK Corporation

Underwater Electric Kite C USA

Verdant Power

Various A USA

Voith Hydro

Hytide A Germany

Vortex Hydro Energy

VIVACE (Vortex Induced Vibrations Aquatic Clean Energy) G USA

Water Wall Turbine

WWTurbine G USA

Woodshed Technologies - CleanTechCom Ltd

Tidal Delay G Australia / UK

FRONT

9. OTHER USEFUL LINKS

Crown Estates

- Wave & Tidal
- Pentland and Orkney
- Knowledge Network

European Marine Energy Centre

- Wave Power Technologies
- Wave Power Developers
- Tidal Power Technologies
- Tidal Power Developers

Online UK Marine Resource Atlas

RenewablesUK

The Carbon Trust: Wave and Tidal Power

- Technical overview of wave and tidal stream energy (55kb, pdf) 2006
- Ocean waves and wave energy device design (600kb, pdf) 2006
- Tidal stream and tidal stream energy device design (252kb, pdf) 2006
- Glossary of technical terms 2006 (1642kb, pdf) 2006
- Shoreline and near-shore OWC wave energy devices summary (65kb, pdf) 2006
- Foundations and moorings for tidal systems (1396kB, pdf) 2009
- Variability of wave and tidal stream energy - overview (81kb, pdf) 2006
- ECI report on variability of UK marine energy resources (3465kb, pdf) 2005
- ECI report on diversified renewable energy resources (869kb, pdf) 2006
- Life-cycle energy and emissions of marine energy devices (58kb, pdf) 2006
- Guidelines on standards for marine energy devices 2005
- Engineering testing of marine energy devices (87kb, pdf) 2006
- OWC wave energy converter evaluation (3905kb, pdf) 2005
- Cost estimation methodology (current 2012)
- Energy capture performance (276kb, pdf) 2006
- Capital, operating and maintenance costs (120kb, pdf) 2006)
- UK wave energy resource (1.3MB, pdf) 2012
  - Appendix B: Charts (10MB, pdf) 2012
- UK tidal current resource and economic assessment (1707kb, pdf) 2011
  - Appendix A: UK resource map (2MB, pdf) 2011
  - Appendix B: Site charts (8MB, pdf) 2011
  - Appendix C: Hydrodynamic methodlogy update (2MB, pdf) 2011

FRONT

10.BIBLIOGRAPHY

International Journal of Renewable Energy Research

2012 Vol. 2 No. 1

A Comprehensive Review on Roughness Geometries and Investigation Techniques Used in Artificially Roughened Solar Air Heaters
Anil Kumar Patil, J.S. Saini, K. Kumar 1-15

3E Analysis of a Solar Assisted Rotary Type Coal Dryer
Mustafa Zeki Yilmazoglu, Ehsan Amirabedin 16-22

Sun Tracking PV Power Plants: Experimental Validation of Irradiance and Power Output Prediction Models
André Coelho, Rui Castro 23-32

Optimization and Analysis of a Vertical Ground-Coupled Heat Pump
Ali Siavoshi Kord, Seyed Ali Jazayeri 33-37

Achieving Certified Emission Reduction in Rural Domestic Energy Sector Through Alternative Fuel Replacement
KJ Sreekanth, S Jayaraj, N Sudarsan 38-43

A Kind of Energy Storage Technology: Metal Organic Frameworks
Zeynel Ozturk, D. A. Kose, A. Asan, B. Ozturk 44-46

Physico-Chemical Properties of Biodiesel from Jatropha and Castor Oils
Aldo Apita Okullo, A. K. Temu, P. Ogwok, J. W. Ntalikwa 47-52

Multi Objective Maximum Efficiency Self Regulating Controllers for Hybrid PV-FC-Diesel-Battery Electric Vehicle Drive System
Adel Elgammal, Adel M. Sharaf 53-77

Heat Balance Analysis to Validate the Heat Dissipation Rate of a Man-Made Lake as a Heat Rejection Device in a Power Plant
Li Song, Tony Hayes, Micah Dawson, Andy Chancellor 78-83

A Grid Connected Photovoltaic System With a Multilevel Inverter and a Le-Blanc Transformer
Vitor Pires, J. F. Martins, D. Foito, Chen Hão 84-91

Effects of Drive Train Model Parameters on a Variable Speed Wind Turbine
Kenneth Eloghene Okedu 92-98

Effects of Geometry of Electrodes and Pulsating DC Input on Water Splitting for Production of Hydrogen
Biswajit Mandal, Amalesh Sirkar, Abhra Shau, Parameswar De, Partha Sarathi Ray 99-102

Dynamic Self Adjusting FACTS-Switched Filter Compensation Schemes for Wind-Smart Grid Interface Systems
Adel Elgammal, Adel M. Sharaf 103-111

Non–Renewable Energy Inputs – Yield Relationship of Alfalfa Production in Iran
Hassan Ghasemi Mobtaker 112-116

Modeling Minority Carrier's Recombination Lifetime of p-Si Solar Cell
Mohammad Ziaur Rahman 117-122

FRONT

A Novel Approach of Electrification of the High Rise Buildings at Dhaka City During Load Shedding Hours

Monjurul Ehsan, Enaiyat Ovy, Kazy Fayeen Shariar, Shah Muhammad Ferdous 123-130

A Novel Transformerless Inverter Topology Without Zero-Crossing Distortion

Tarak Salmi, Mounir Bouzguenda, Adel Gastli, Ahmed Masmoudi 140-146

A Review on Particle Emissions from Small Scale Biomass Combustion

M. Obaidullah, S. Bram, V. K. Verma, J. De Ruyck 147-159

Temperature Effect on the Performance of of n-Type uc -Si Film Grown by Linear Facing Target Sputtering for Thin Film Silicon Photovoltaic Devices

Ali Abd Elsalam Ibrahim, Ayman El-Amin 160-165

2012 Vol. 2 No. 2

Introduction to FACTS Controllers in Wind Power Farms: A Technological Review

Bindeshwar Singh 166-212

MATLAB/Simulink Based Modeling of Photovoltaic Cell

Tarak Salmi, Mounir Bouzguenda, Adel Gastli, Ahmed Masmoudi 213-218

Reliable Estimation of Density Distribution in Potential Wind Power Sites of Bangladesh

Apratim Roy 219-226

Dynamic Behaviour of a Wind Energy Conversion System including Doubly-Fed Induction Generator in Fault Conditions

Dimitrios G Giaourakis, Athanasios N Safacas, Savvas N Tsotoulidis 227-235

Combustion Characteristics of a High Pressure Fuel Injected Single Cylinder Compression-Ignition Engine, Fuelled with Diesel–Ester Blends Under Various Fuel Injection Advance Angles

Alp Tekin Ergenc, Deniz Ozde Koca, Merve Abacioglu 236-242

Maximal Wind Energy Tracing of Brushless Doubly-Fed Generator under Flux Oriented Vector Control

Hicham Serhoud, Djilani Benattous 243-249

Statistical Analysis of Wind Resources at Darling for Energy Production

Zaccheus Olaniyi Olaofe, Komla A. Folly 250-261

Input Current Control of Boost Converters using Current-Mode Controller Integrated with Linear Quadratic Regulator

Majid Abdullateef Abdullah, Chee Wei Tan, Abdul Halim Yatim, M. R. Al-Mothafar, Saleh M. Radaideh 262-268

Statistical Assessment of Average Global and Diffuse Solar Radiation on Horizontal Surfaces in Tropical Climate.

Paulinus Ekene Ugwuoke, Cajetan Ezeani Okeke 269-273

Synthesis of Carbon Nanotube Using Olive Oil and It's Application in DYE Sensitized Solar Cell

Swati Sharma, Pinaki Ranjan, Sthitadhi Das, Sushil Gupta, Ravinder Bhati, Amitava Majumdar 274-279

Present Scenario of Renewable Energy in Bangladesh and a Proposed Hybrid System to Minimize Power Crisis in Remote Areas

Nahid -UR-Rahman Chowdhury, Syed Enam Reza, Tofaeel Ahamed Nitol 280-288

FRONT

Photoelectrochemical Hydrogen Production Using Visible Light
Raj Kumar Arya 289-294

Performance and Emission Characteristics Studies on Stationary Diesel Engines Operated with Cardanol Biofuel blends
Mallikappa D N, Ranapratap Reddy, Ch.S.N Murthy 295-299

Modeling and Control of a Wind Power Conversion System Based on the Double-Fed Asynchronous Generator
Moualdia Abdelhafidh, MO. Mahmoudi, L. Nezli, O. Bouchhida 300-306

Evaluation of Renewable Energy Sources Exploitation at remote regions, using Computing Model and Multi-Criteria Analysis: A Case-Study in Samothrace, Greece
J. C. Mourmouris, C. Potolias, Jacob G Fantidis 307-316

Nigerian Jatropha Curcas Oil Seeds: Prospect for Biodiesel Production in Nigeria
Elizabeth Funmilayo Aransiola, Michael Olawale Daramola, Tunde Victor Ojumu, Mujidat Omolara Aremu, Stephen kolawole Layokun, Bamidele Ogbe Solomon 317-325

A Theoretical Investigation on the Potential Application of Ocean Salinity and Temperature Energy Conversion (OSTEC)
Shu Kim Lee, Jedol Dayou, Awang Sufiyan Abd. Hamid, Ejria Saleh, Baharum Ismail 326-331

Identification of the Situation of Renewable Energy Alternatives in the Criteria known by private sector investors (Case study: Iran)
Alireza Aslani, Marja Naaranoja, Erkki Antila, Mostafa Golbaba 332-337

Wind energy potential assessment in Chalus County in Iran
Mojtaba Nedaei 338-347

Derivation of Surface Roughness and Capacity Factor from Wind Shear Characteristics
Apratim Roy 348-355

2012 Vol. 2 No. 3

Etching, Evaporated Contacts and Antireflection Coating on Multicrystalline Silicon Solar Cell
Ali Ibrahim, A.A. El-Amin 356-362

Product Gas Distribution and Composition From Catalyzed Gasification of Mimosa
Thanasit Wongsiriamnuay, Nakorn Tippayawong 363-368

Application of Dye-Sensitized Solar Cell Technology in the Tropics: Effects of Air Mass on Device Performance
Raphael Makokha Otakwa, J. Simiyu, S.M. Waita, J.M. Mwabora 369-375

Energy Saving Potential From Daylighting Through External Multiple-Slat Shaded Window in the Tropics
Pipat Chaiwiwatworakul, D. Matuampunwong, S. Chirarattananon 376-383

Providing Electricity Requirements by Biogas Production and Its Environmental Benefit in Sample Dairy Farms of Iran
Paria Sefeedpari, Shahin Rafiee, Asadollah Akram 384-387

Directional and Time-Series Distribution of Projected Wind-Profiles Based on Low-Altitude Data
Apratim Roy 388-396

FRONT

A Proposal of Implementation of Ducted Wind Turbine Integrated With Solar System for Reliable Power Generation in Bangladesh
Mohammad Monjurul Ehsan, Enaiyat Ghani Ovy, H.A. Chowdhury 397-403

Quantum Generator Synthesis
C. Austin Cooper 404-407

Model for Biomass Based Renewable Hydrogen Supply Chain
Irfan GONDAL, Mukhtar Hussain Sahir 408-415

Hydrogen Production Technologies With Specific Reference to Biomass
Sushmita Mohapatra 416-420

Wind Energy Conversion System Using DFIG Controlled by Backstepping and Sliding Mode Strategies
Adel Khedher, Nihel Khemiri, Mohamed Faouzi Mimouni 421-430

Stability Enhancement of DFIG-Based Variable Speed Wind Turbine With a Crowbar by FACTS Device as Per Grid Requirement
Kenneth Eloghene Okedu 431-439

Efficiency Analysis of Isolated Wind-Photovoltaic Hybrid Power System With Battery Storage for Laboratory General Illumination for Education Purposes
Yuksel Oguz, Harun Oğuz, İsmail Yabanova, Emrah Oguz, Ali Kırkbaş 440-445

Bioethanol Production and Optimization Test From Agricultural Waste: The Case of Wet Coffee Processing Waste (Pulp)
Ayele Kefale, Mesfin Redib, Araya Asfaw 446-450

Analysis of Wind Speed Data for Four Locations in Ireland Based on Weibull Distribution's Linear Regression Model
Parikshit Gautam Jamdade, Shrinivas Gautamrao Jamdade 451-455

Design of Solar Powered BLDC Motor Driven Electric Vehicle
Immanuel Alphonse, Hosimin Thilagar, F. Bright Singh 456-462

The Algerian Challenge Between The Dependence on Fossil Fuels and Its Huge Potential Renewable Energy
DIB Djalel, Abdelhakim Bendakir, Samir Metatla, Youcef Soufi 463-470

Comparison Study Between SVM and PWM Inverter in Sliding Mode Control of Active and Reactive Power Control of a DFIG for Variable Speed Wind Energy
Youcef Bekakra, Djilani Ben Attous 471-476

Operational Experience of Agro-Residue Briquettes Based Power Generation System of 100 kW Capacity
Devendra Pareek, Asim Joshi, Sunil Narnaware, Vikas Kr. Verma 477-485

Deviation in the Performance of Solar Module Under Climatic Parameter as Ambient Temperature and Wind Velocity in Composite Climate
Rahnuma Siddiqui, Usha Bajpai 486-490

Effect of Thickness on the Film Properties of Spray Deposited Copper Indium Sulfide Thin Films by Ultrasonic Impact Nozzle
Nurdan Demirci Sankir, Erkan Aydin, Hulya Unver, Ezgi Uluer 491-496

The Kinetic Model of Calcination and Carbonation of Anadara Granosa
Nor Adilla Rashidi, Mustakimah Mohamed, Suzana Yusup 497-503

A Study on Reduction of Oxides of Nitrogen With Jatropha Oil Based Bio Diesel
Nitin Shrivastava, Satya Narayan Varma, Mukesh Pandey 504-509

FRONT

Enhanced Biogas Production in Anaerobic Digestion of Cassava Wastewater Though Supplementation of Biodiesel Waste as Co-substrate
Pratin Kullavanijaya, Patthama Thongduang 510-515

Comparative Performance Evaluation of a High Grade Low Heat Rejection Diesel Engine With Carbureted Alcohol and Crude Jatropha Oil
Venkata Krishna Murthy, M.V.S. Murali Krishna, T.K. K. Reddy 516-527

Modeling and Control of Wind Power Conversion System With a Flywheel Energy Storage System and Compensation of Reactive Power
Seifeddine Belfedhal, EL-Madjid Berkouk, Y. Meslem, Youcef Soufi 528-534

An Analysis of the Potentiality of Tidal Power in Sandwip by Using One Way & Two Way Power Generation Technology: An Ideal Model
Tausif Ali, Sabuj Das Gupta, Iftekhar Zaman Arnab, S.M Ferdous 535-540

2012 Vol. 2 No. 4

Sliding Mode Observer of a Power Quality in Grid Connected Renewable Energy System
Ali Djerioui, K. Aliouane, F. Bouchafaa 541-548

Seasonal Variation of Internal Parameters of Amorphous Silicon (a-Si) Thin Film Photovoltaic Modules
Rustu Eke, Sener Oktik 549-555

Comparison of Experimental results with CFD for NREL Phase VI Rotor with Tip Plate
EswaraRao VSJ Anjuri 556-563

Solution to the Instability of DC Bus Voltages in Wind Chain Associate to DFIG with MPPT
Saliha Arezki, Mohamed Mohamed Boudour 564-573

Feasibility and Optimal Reliable Design of Renewable Hybrid Energy System for Rural Electrification in Iran
Farshid Mostofi, Hossein Shayeghi 574-582

Application of an Active Power Filter on Photovoltaic Power Generation System
Chenni Rachid, Bouzelata Yahia, Djeghloud Hind 583-590

Comparative Performances Study of a Variable Speed Electrical Drive
Salima Lekhchine, Bahi Tahar, Soufi Youcef 591-595

Studies of the Effect of a Photons Converter (LDS) on the Characteristic Parameters of the Solar Cells
Mohammed Ayad, Mohamed Fathi, Abderrazak Mahfoud 596-599

Variable Structure Control Applied in Wind Turbine Based on Induction Generator
Abdel Ghani Aissaoui, Ahmed Tahour, Mohamed Abid, Najib Essounbouli, Frederic Nollet, Moulay Idriss Chergui 600-607

The Mean Hourly Global Radiation Prediction Models Investigation in Two Different Climate Regions in Morocco
Rachid Mejdoul, Mohamed Taqi 608-617

Challenges of Grid Integration of Wind Power on Power System Grid Integrity: A Review
Temitope Raphael Ayodele, Adiasa Jimoh, Josial L Munda, Agee J Tehile 618-626

FRONT

Study of Chemical and Microbiological Properties of Saffron Dehydrated by using Solar Drying System
Hamid Reza Feili, Ebrahim Molaee Aghaee, Aghdas Taslimi 627-630

Interface and Stability Issues for SISO and MIMO Power Hardware in the Loop Simulation of Distribution Networks with Photovoltaic Generation
Alexander Viehweider, Felix Lehfuss, Georg Lauss 631-639

Design, Development, Manufacturing and Testing of Aerofoil Blades for Small Wind Mill
Mahesh Wagh, Nilkanth N. Shinde 640-644

A Hybrid-Switching Based Bridgeless PFC Converter for On-Board Battery Chargers using Predictive Current Control
Mohammad Abedi, Brian Ernzen 645-651

Investigation of Flow Mal-distribution in Proton Exchange Membrane Fuel Cell Stack
Kanthabhabha Palaniappan, R. Govindarasu, R. Parthiban 652-656

Transient Simulation of a Flat Plate Solar Powered Adsorption Refrigeration System
Rekiyat Bgirl Omohu Suleiman, Rekiyat Suleiman, Clement Folayan, Fatai Anafi, Dangana Kulla 657-664

Optimal Slope-Angles to Determine Maximum Solar Energy Gain for Solar Collectors Used in Iran
Seyyed Ali Keshavarz, Pouyan Talebizadeh, Saeed Adalati, Mozaffar Ali Mehrabian, Morteza Abdolzadeh 665-673

Development and application of an integrated wind resource assessment tool for wind farm planning
Giovanni Gualtieri 674-685

Deterministic optimization and cost analysis of hybrid PV/wind/battery/diesel power system
Lu Zhang, Georges Barakat, Adnan Yassine 686-696

A Study on the Effect of the Complexing Agent on Particle Size of CBD Deposited CdS Layer
Sthitadhi Das, Prashant Misra, Vignesh G, Anand Upadhyay, Nikhil Aggarwal 697-701

Reliability and Validity of a New Energy-Efficient Building Performance Survey Framework in Hot and Humid Climatic Regions: Malesia
Ban Huat Ng, Zainal Abidin Akasah 702-711

Numerical Simulation of Natural Convection in a Solar Chimney
Tahar Tayebi, Djezzar Mahfoud 712-717

Renewable Energy Technologies in Greece: A Patent Based Approach
Maria Markatou 718-722

Control the Flywheel Storage System by Fuzzy Logic Associated With the Wind Generator
Bouchafaa Farid, Hamzaoui Ihssen, Talha Aziz 723-729

Optimisation Of A GPV By An Artificial Intelligence Technical
Bouchafaa Farid, Boukhalfa Saida, Aounallah Tarek 730-735

Speed-Sensorless DFIG Wind Drive Based on DTC Using Sliding Mode Rotor Flux Observer
Ben Alaya Jihene, Adel Khedher, Mohamed Faouzi Mimouni 736-745

Optimized Design of Rotor Blade for a Wind Pump
Prasad SS, Virupaxi Auradi 746-749

FRONT

Modeling and Performance Analysis of Microturbine Generation System in Grid Connected/Islanding Operation
Sanjeev K Nayak, Dattatreya N Gaonkar 750-757

Consumers' Willingness to Pay for Electricity from Renewable Energy Sources, Queensland, Australia
Galina Alexandra Ivanova 758-766

Use of a Hybrid Solar Oven in Housing in Dry Climates: An Experimental Study of Thermal Performance
Arturo F. Buigues Nollens, Esteban O. Rojos, Marcelo O. Fariello 767-772

Assessment of Wind Energy Technology Potential in Indian Context
Rupendra Kumar Pachauri, Yogesh K. Chauhan 773-780

Solar Tilt Measurement of Array for Building Application and Error Analysis
Abhishek Agarwal, Vineet Kumar Vashishtha, S. N. Mishra 781-789

Consideration of Operating Characteristics for Bi-directional LLC Resonant Converter
Sihun Yang, Seiya Abe, Toshiyuki Zaitsu, Junichi Yamamoto, Masahito Shoyama, Tamotsu Ninomiya 790-796

A Contribution to the Design and the Installation of an Universal Platform of a Wind Emulator Using a DC Motor
Imen Nouira, Adel Khedher, Adel Bouallegue 797-804

FRONT

International Journal of Renewable Energy Technology

2012 Vol. 3 No. 1

1-10 **Performance evaluation of solar tunnel dryer for grape drying**
N.S. Rathore; N.L. Panwar; Bhawana Asnani

11-23 **Solar energy based thermal energy storage system using phase change materials**
R. Meenakshi Reddy; N. Nallusamy; T. Hariprasad; K. Hemachandra Reddy; G. Ramachandra Reddy

24-35 **Optimal operating point tracking in a stand-alone PV system using particle swarm optimisation**
Mohamed Azab

36-57 **Maximum power point tracking for wind energy conversion systems based on fuzzy modelling and control**
Ayman Francees; Abdel-Latif Elshafei

58-78 **Development of PSO-based robust controller for maximising wind penetration**
Sasidharan Sreedharan; Weerakorn Ongsakul; Jai Govind Singh; S.S. Mahapatra

79-93 **Energy and exergy audit of a solar grain dryer**
C.O.C. Oko; S.N. Nnamchi

2012 Vol. 3 No. 2

107-141 **State of the art on solar drying technology: a review**
N.L. Panwar; S.C. Kaushik; Surendra Kothari

142-164 **A novel stabilisation scheme for hybrid photovoltaic, fuel-cell and diesel gen-set utilisation system**
Adel M. Sharaf; Adel A. Aktaibi

165-173 **A technical note on performance testing of a solar box cooker provided with sensible storage material on the surface of absorbing plate**
Abhishek Saxena; Varun; Ghanshyam Srivastava

174-188 **Role of acridine orange – sodium lauryl sulphate system in photogalvanic cell for solar energy conversion**
K.R. Genwa; Arun Kumar

189-220 **Artificial intelligence techniques for prediction of solar radiation data: a review**
Mohamed Benghanem

FRONT

2012 Vol. 3 No. 3

221-236 **Design and theoretical performance analysis of linear Fresnel reflector solar concentrator with a tubular absorber**
R. Manikumar; A. Valan Arasu

237-253 **A novel study for constant voltage and frequency operation of self-excited short-shunt induction generator**
H.H. Hanafy; S.A. Zaid; A.M. Gesraha; M.M. Abd-Elaziz

254-275 **Optimisation of injection timing and operating parameters on Jatropha biodiesel engine using RSM**
T. Ganapathy; R.P. Gakkhar; K. Murugesan

276-294 **Modelling and control of a variable speed wind turbine driving doubly fed induction generator using three-level PWM converter**
Fairouz Kendouli; Khoudir Abed; Khalil Nabti; Hocine Benalla

295-315 **A comparative study on solar array parameter extraction methods**
Bidyadhar Subudhi; Raseswari Pradh

316-322 **Solar powered mini steam power plant: a simulation approach**
Hari Om Bansal; Dhruv Malik

2012 Vol. 3 No. 4

323-340 **Emissions and performance from a biomass boiler for different solid biomass fuels**
S. Oberweis; T.T. Al-Shemmer

341-355 **Correlation model of hourly diffuse solar radiation based on ASHRAE model: a study case in India**
A.K. Katiyar; Chanchal Kumar Pandey; V.K. Katiyar

356-371 **Small wind turbine emulator with armature controlled separately excited DC motor via analogue electronic circuit**
A. Mahdy; S.M. El-Hakim; Hanafy Hassan Hanafy

372-385 **Thermal management of non-concentrating photovoltaic panels under extreme ambient conditions**
Zakariya Kaneesamkandi; M. Chandrasekar; P. Gopal

386-399 **Fuel cell technological innovation system in Iran**
Mahdi Sahafzadeh; Naser Bagheri Moghaddam; Morteza Zamanian

400-409 **Production of biodiesel from pentaclethra macrophylla seed oil**
Kinsgley Chinonyerem Oshieke; Aliyu Jauro

410-429 **Comparative assessment of injection, combustion, performance and emission characteristics of a diesel engine for biodiesel-diesel blends**
K.A. Subramanian; Subhash Lahane

FRONT

Journal of Alternate Energy Sources and Technologies

Volume 3 Number 1, 2012

Performance Evaluation of Battery Electric Vehicles – A Computational Study
V. L. Narasimha Ravi K, Dr. G. Amba Prasad Rao

Interfacing Renewable Energy Sources to the Utility Power Grid Using a Motor-Generator Set
PavanKumar Y V, Y Jaganmohan Reddy, K. Padma Raju

Biomass Energy – A Sustainable Option for Power Generation in Rural India
Atul Sharma, Jaya Srivastava

Improving Power System DynamicS through Control Strategies in Wind Energy Conversion Systems
Lata Gidwani, Dr. H. P. Tiwari

Volume 3 Number 2, 2012

Effective Reduction of Emissions of a DI Diesel Engine fuelled with Biodiesel and Diesel Blends with Oxygenated Additives
Amba Prasad Rao, U. S. Vara Prasad, K. Madhu Murthy

Environmental Value Engineering Analysis on Performance Optimization of an Oil Fired Crucible Furnace using Oscillatory Combustion Technology
Venkata Aditya Nag Mannepalli

Temperature Variation and Energy Performance with or without PCM due to Introduction of Heat Loads
Munesh kumar sharma, D. Buddhi

Use of Refrigerating Technologies in Cold Chain Solution: A State-of-the-Art
Munesh kumar sharma, D. Buddhi

Volume 3 Number 3, 2012

Performance Evaluation of Wood Gasifier
Ashok J. Keche, G. Amba Prasad Rao, Rajendrakumar G. Tated

Specific Contact Resistance of CuxO Thin Films Deposited by r. f. Sputtering Method
Dr. Jayanta Pal

Texture Segmentation Using Multichannel Filtering And Kohonen's Self Organizing Map
Meenakshi Pramanik, Parichay Das

FRONT

JOURNAL OF ENERGY ENGINEERING

March 2012 Volume 138, Number 1)

Anaerobic Biohydrogen Fermentation from Paper Mill Sludge
Feng Wu and Shaoqi Zhou pp1-6

Energy Harvesting from Water Distribution Systems
Guoliang Ye and Kenichi Soga pp7-17

Total Building Performance Approach in Building Evaluation: Case Study of an Office Building in Singapore
Lukumon O. Oyedele, Kwok Wai Tham, Moshood O. Fadeyi, and Babatunde E. Jaiyeoba pp18-30

June 2012 Volume 138, Number 2

Special Issue on Challenges and Opportunities in the 21st Century Energy Infrastructure
Lizhi Wang and Chung-Li Tseng pp31-32

Quantifying System-Level Benefits from Distributed Solar and Energy Storage
Shisheng Huang, Jingjie Xiao, Joseph F. Pekny, Gintaras V. Reklaitis, and Andrew L. Liu pp33-42

Fast MPC-Based Coordination of Wind Power and Battery Energy Storage Systems
Le Xie, Yingzhong Gu, Ali Eskandari, and Mehrdad Ehsani pp43-53

Technoeconomic Sensitivity of Biobased Hydrocarbon Production via Fast Pyrolysis to Government Incentive Programs
Tristan R. Brown and Guiping Hu pp54-62

Ex-Ante Assessment of the Implementation of an Energy Efficiency Certificate Scheme in Chile
Juan G. Norero and Enzo E. Sauma pp63-72

Photovoltaic Power Generation in China: Development Potential, Benefits of Energy Conservation and Emission Reduction
Zhongfu Tan, Huijuan Zhang, Jun Xu, Jianhui Wang, Chao Yu, and Jinliang Zhang pp73-86

Sustainability and Resiliency Measures for Long-Term Investment Planning in Integrated Energy and Transportation Infrastructures
Diego Mejia-Giraldo, Jose Villarreal-Marimon, Yang Gu, Yanyi He, Zhaoyang Duan, and Lizhi Wang pp 87-94

Optimal Planning and Operation of Smart Grids with Electric Vehicle Interconnection
M. Stadler, C. Marnay, M. Kloess, G. Cardoso, G. Mendes, A. Siddiqui, R. Sharma, O. Mégel, and J. Lai pp95-108

September 2012 Volume 138, Number 3, (109-164)

Influence of the Blade Hub Geometry on the Performance of Low-Head Axial Flow Turbines
Punit Singh and Franz Nestmann pp109-118

Novel Theoretical Approach on Exergy and Energy Performance Assessment of Cylindrical Solar Water Heater
Alireza Rasekh and Mahmood Farzaneh-Gord pp119-124

Experimental Investigation of Adjustable Ejector Performance
Kun Zhang, Shengqiang Shen, Yong Yang, and Xingwang Tian pp125-129

FRONT

Thermal Energy Performance of a Solar Thermal Electric Panel

Stuart Baur and Joel Lamson pp130-135

Combined Cycle Power Plant Performance Analyses Based on the Single-Pressure and Multipressure Heat Recovery Steam Generator

Murad A. Rahim pp 136-145

Implementation of the German Passivhaus Concept in Southeast Europe: Considerations for Romania

Viorel Badescu and Nicolae Rotar pp146-162

Discussion of "Sustainable Electric Power System: Is It Possible? Case Study: Croatia" by Zvonimir Glasnovic and Jure Margeta

Dejan Brkić pp 163-164

Closure to "Sustainable Electric Power System: Is It Possible? Case Study: Croatia" by Zvonimir Glasnovic and Jure Margeta

Zvonimir Glasnovic and Jure Margeta pp164

December 2012 Volume 138, Number 4, (165-260)

Unified Approach to Balanced Pricing Strategies for Backup Reserve and Wheeling in Power Systems

M. A. El-Kady, Y. A. Alturki, and F. M. Al-Duaij pp165-171

Evaluation of Optimization Algorithms to Adjust Efficiency Curves for Hydroelectric Generating Units

Ieda G. Hidalgo, Darrell G. Fontane, Mazdak Arabi, João E. G. Lopes, J. G. P. Andrade, and Lubienska C. L. J. Ribeiro 172-178

Assessment of Household Energy Utilization in Ibadan, Southwestern Nigeria

Mufutau Adekojo Waheed, Abayomi Olufemi Oni, David Abimbola Fadare, and Musediq Adedoyin Sulaiman pp179-184

Tunable Energy Harvesting from Ambient Vibrations in Civil Structures

Mohamed Rhimi and Nizar Lajnef pp185-193

Prediction of Hourly Solar Radiation in Six Provinces in Turkey by Artificial Neural Networks

Ozgur Solmaz and Muammer Ozgoren pp 194-204

Design and Performance Study of a Solid Oxide Fuel Cell and Gas Turbine Hybrid System Applied in Combined Cooling, Heating, and Power System

Hsiao-Wei D. Chiang, Chih-Neng Hsu, Wu-Bin Huang, Chien-Hsiung Lee, Wei-Ping Huang, and Wen-Tang Hong pp205-214

Hybrid Train Power with Diesel Locomotive and Slug Car–Based Flywheels for NOx and Fuel Reduction

Zhiyang Wang, Alan Palazzolo, and Junyoung Park pp 215-236

Critical Submergence for Dual Rectangular Intakes

Nevzat Yıldırım, Abdul Samet Eyüpoğlu, and Kerem Taştan pp237-245

Review of Water Use in U.S. Thermoelectric Power Plants

Lamya Badr, Gregory Boardman, and John Bigger pp246-257

FRONT

JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY

Volume 11, Number 1, January 2012

Ballast water treatment and ship safety to the fore
pp. 2-2(1) *Bucknall, Richard; Greig, Alistair*

Preview of global ballast water treatment markets
pp. 3-15(13) *King, D.M.; Hagan, P.T.; Riggio, M.; Wright, D.A.*

Logistics of compliance assessment and enforcement of the 2004 ballast water convention
pp. 17-23(7) *Wright, D.A.*

An investigation into the properties of V-based catalysts for Selective Catalytic Reduction of NO with NH_3
pp. 25-34(10) *Xiao, Y.; Liang, T.; Zhou, P.*

Optimisation of the crash-stop manoeuvre of vessels employing slow-speed two-stroke engines and fixed pitch propellers
pp. 35-43(9) *Wirz, Dipl-Ing F.*

The impact of navigation safety in Kaohsiung harbour
pp. 45-50(6) *Wang, H-C.; Lee, H-S.*

Experiments with point absorbers for wave energy conversion
pp. 51-62(12) *Hardisty, J.*

Volume 11, Number 2, April 2012

The legacy of R&D
pp. 2-2(1) *Bucknall, Richard; Greig, Alistair*

Adjustable bolted propellers: mitigating uncertainty
pp. 3-14(12) *Vrijdag, A.; Stapersma, D.; Grunditz, G.*

An analysis of shipboard waste heat availability for ballast water treatment
pp. 15-29(15) *Balaji, R.; Yaakob, O.*

Research on pre-controllable safety factors of a wind power gearbox transmission based on reliability optimisation design
pp. 31-37(7) *Sun, W.; Chen, T.; Zhang, X.*

Design and parameter estimation of a remotely operated underwater vehicle
pp. 39-48(10) *Wang, Yung-Lien; Lu, Chang-Yu*

Volume 11, Number 3, September 2012

Autonomous surface vehicles on the horizon?
pp. 2-2(1) *Bucknall, Richard; Greig, Alistair*

SNR and MSE analysis of KLMS algorithm for underwater acoustic communications
pp. 3-8(6) *Murugan, S Sakthivel; Natarajan, V.*

Modelling the yaw dynamics of an uninhabited surface vehicle for navigation and control systems design
pp. 9-20(12) *Sharma, S.K.; Sutton, R.*

Tidal effects on pattern-based marine surface operations
pp. 21-29(9) *Tam, C.; Bucknall, R.*

Evaluating navigation safety for harbours in Taiwan: An empirical study
pp. 31-37(7) *Wang, Hui-Chiao; Lee, Hsuan-Shih*

FRONT

JOURNAL OF RENEWABLE POWER GENERATION

Volume 6, Issue 1, 2012

Direct-drive permanent magnet generators for high-power wind turbines: benefits and limiting factors

R. Scott Semken; M. Polikarpova; P. Röyttä; J. Alexandrova; J. Pyrhönen; J. Nerg; A. Mikkola; J. Backman

Active power control of a flywheel energy storage system for wind energy applications

G.O. Suvire; P.E. Mercado

Optimised control approach for frequency-control contribution of variable speed wind turbines

A. Žertek; G. Verbič; M. Pantoš

Effect of grid-connected solid oxide fuel cell power generation on power systems small-signal stability

W. Du; H.F. Wang; X.F. Zhang; L.Y. Xiao

Coordinated frequency regulation by doubly fed induction generator-based wind power plants

Z.-S. Zhang; Y.-Z. Sun; J. Lin; G.-J. Li

Small-signal modelling and analysis of wind turbine with direct drive permanent magnet synchronous generator connected to power grid

H. Huang; C. Mao; J. Lu; D. Wang

Operation of concentrating solar power plants with storage in spot electricity markets

J. Usaola

Volume 6, Issue 2, 2012

Binary PSO-based dynamic multi-objective model for distributed generation planning under uncertainty

A. Soroudi; M. Afrasiab

Small-signal stability of wind power system with full-load converter interfaced wind turbines

T. Knüppel; J.N. Nielsen; K.H. Jensen; A. Dixon; J. Østergaard

Parameters impact on the performance of a double-fed induction generator-based wind turbine for subsynchronous resonance control

C. Zhu; M. Hu; Z. Wu

Voltage/pitch control for maximisation and regulation of active/reactive powers in wind turbines with uncertainties

Y. Guo; S.H. Hosseini; J.N. Jiang; C.Y. Tang; R.G. Ramakumar

Probabilistic load flow for radial distribution networks with photovoltaic generators

F.J. Ruiz-Rodriguez; J.C. Hernández; F. Jurado

Natural convection heat loss estimation of solar cavity receiver by incorporating a modified aperture ratio

L. Xiao; S.-Y. Wu; Y.-R. Li

Volume 6, Issue 3, 2012

Experimental study on a heat-pipe photovoltaic/thermal system

H.D. Fu; G. Pei; T. Zhang; H.J. Zhu; J. Ji

Integrated structural and electromagnetic design of direct-drive linear machines for wave energy

R. Crozier; M. Mueller

Experimental results from the operation of aggregated wave energy converters

M. Rahm; O. Svensson; C. Boström; R. Waters; M. Leijon

FRONT

Designing the C-GEN lightweight direct drive generator for wave and tidal energy

O. Keysan; M. Mueller; A. McDonald; N. Hodgins; J. Shek

Multi-phase air-cored tubular permanent magnet linear generator for wave energy converters

N.P. Gargov; A.F. Zobaa

Thermo-mechanical stress in tubular solid oxide fuel cells: Part I – transient operating behaviour and the relevance of material creep

K. Fischer; J.R. Seume

Thermo-mechanical stress in tubular solid oxide fuel cells: Part II – Operating strategy for reduced probability of fracture failure

K. Fischer; J.R. Seume

Volume 6, Issue 4, 2012

Condition monitoring of wind turbine induction generators with rotor electrical asymmetry

S. Djurovic; C.J. Crabtree; P.J. Tavner; A.C. Smith

Robust H∞ suboptimal control based on effective informed adaptive particle swarm optimisation algorithm for proton exchange membrane fuel cell system

Q. Li; W. Chen; Y. Wang; S. Liu; S. Tao

Reduction of frequency fluctuation for wind farm connected power systems by an adaptive artificial neural network controlled energy capacitor system

S.M. Muyeen; H.M. Hasanien; J. Tamura

Scenario-based multiobjective distribution feeder reconfiguration considering wind power using adaptive modified particle swarm optimisation

T. Niknam; A. Kavousifard; J. Aghaei

Design of controller and communication for frequency regulation of a smart microgrid

S. Mishra; G. Mallesham; A.N. Jha

Modelling and control of photovoltaic panels utilising the incremental conductance method for maximum power point tracking

G.J. Kish; J.J. Lee; P.W. Lehn

Comparison of an island wind turbine collective and individual pitch LQG controllers designed to alleviate fatigue loads

H. Camblong; S. Nourdine; I. Vechiu; G. Tapia

Solar dish-Stirling system optimisation with a doubly fed induction generator

D. Santos-Martin; J. Alonso-Martinez; J. Eloy-Garcia; S. Arnalte

Development of EN50438 compliant wavelet-based islanding detection technique for three-phase static distributed generation systems

M. Hanif; M. Basu; K. Gaughan

Volume 6, Issue 5, 2012

Operating point of islanded microgrids consisting of conventional doubly fed induction generators and distributed supporting units

G. Díaz; C. González-Morán; C. Viescas

Measuring the volatility of wholesale electricity prices caused by wind power uncertainty with a correlation model

Y. Wei; F. Li; K. Tomsovic

FRONT

Feedback linearisation oriented approach to Q–V control of grid connected photovoltaic units

F. Delfino; G.B. Denegri; M. Invernizzi; R. Procopio

Fuzzy adaptive Kalman filter for wind power output smoothing with battery energy storage system

X. Li

Evaluation of the mainstream wind turbine concepts considering their reliabilities

Q. Gao; C. Liu; B. Xie; X. Cai

Eco-design optimisation of an autonomous hybrid wind–photovoltaic system with battery storage

D. Abbes; A. Martinez; G. Champenois

Volume 6, Issue 6, 2012

Fuel cell fault forecasting system using grey and extension theories

M.H. Wang; H.H. Tsai

Dynamic properties of a voltage source inverter-based three-phase inverter in photovoltaic application

J. Puukko; T. Suntio

Modelling wind speed dependence in system reliability assessment using copulas

K. Xie; Y. Li; W. Li

Phase-locked loop-less current controller for grid-connected photovoltaic systems

C. Busada; S. Gómez Jorge; A.E. Leon; J. Solsona

Synthesisable solar-harvesting integrated circuit and system

Y.-C. Kuo; C.-H. Liu; L.-J. Liu

Application of a synchronous generator with a boost converter in wind turbines: an experimental overview

R. Sharma; T.W. Rasmussen; B.B. Jensen

Improvement of dynamic performance of doubly fed induction generator-based wind turbine power system under an unbalanced grid voltage condition

F. Mwasilu; J.J. Justo; K.-S. Ro; J.-W. Jung

Voltage source converter-based topologies to further integrate renewable energy sources in distribution systems

J.M. Maza-Ortega; A. Gómez-Expósito; M. Barragán-Villarejo; E. Romero-Ramos; A. Marano-Marcolini

Efficient data filtering for wind energy assessment

J.J. Melero; J.J. Guerrero; J. Beltrán; C. Pueyo

JOURNAL OF TECHNOLOGY INNOVATIONS IN RENEWABLE ENERGY

Volume 1, Number 1, 2012

Physical Properties of an Alfisol Under Biofuel Crops in Ohio - *Pages 1-13*
Catherine Bonin and Rattan Lal

Real World Renewable Hydrogen Transport - *Pages 14-22*
R. Gazey, Dallia Ali and Daniel Aklil

Low Powered Solar ECG with ZigBee Based Bio-Telemetry - *Pages 23-29*
Parin Dedhia, Harsh Doshi and Mrunal Rane

Study of a Solar PV-Wind-Battery Hybrid Power System for a Remotely Located Region in the Southern Algerian Sahara: Case of Refrigeration - *Pages 30-38*
Maamar Laidi, Salah Hanini, Brahim Abbad, Nachida Kasbadji Merzouk and Mohamed Abbas

Final Review of the Application of the SCOR Model: Supply Chain for Biodiesel Castor – Colombia Case - *Pages 39-47* Fernando Salazar, Martha Caro and Judith Cavazos

Performance of a Hybrid Wind-Grid-Load Energy System - *Pages 48-53*
Maamar Taleb, Hussain A. Salman, Hassan A. Jumaa and Hassan A. Al-Mukharreq

Cellulase and Xylanase Production from Rice Straw by a Locally Isolated Fungus *Aspergillus fumigatus* NITDGPKA3 under Solid State Fermentation – Statistical Optimization by Response Surface Methodology - *Pages 54-62* Nibedita Sarkar and Kaustav Aikat

First & Second Law Analysis of Solar Air Heater - *Pages 63-71*
Vijay Mittal and Thakur Sanjay Kumar

Volume 1, Number 2, 2012

Methanol as a Main Fuel to Replace Gasoline Without Global Warming - *Pages 72-79*
John O'M. Bockris

Diffusion of PV in Japan and Germany-Role of Market-Based Incentive and Research and Development (R&D) Investment - *Pages 80-86*
Sanjeeda Chowdhury and Ushio Sumita

New I-V Characteristics Scan-Type MPPT Control Method for PV Generation System - *Pages 87-91*
Kazutaka Itako

Simple Model for the Theoretical Survey of the Green Roof Thermal Behavior - *Pages 92-102*
Dominique Morau, Rakotondramiarana Hery Tiana and Andriamamonjy Ando Ludovic

Modeling of Carbonated Metabolites Production by Clostridium butyricum W5 Under Anaerobic Conditions for Optimization of Hydrogen Metabolic Production - *Pages 103-112*
Andres C. Diaz Valencia, Gustavo A. Garzon Fajardo, Fabio E. Sierra Vargas and Carlos A. Guerrero Fajardo

Predicting Energy Requirement for Cooling the Building Using Artificial Neural Network - *Pages 113-121*
Rajesh Kumar, R.K. Aggarwal, J.D. Sharma and Sunil Pathania

Energy Generation from Osmotic Pressure Difference Between the Low and High Salinity Water by Pressure Retarded Osmosis - *Pages 122-130*
Xu Wang, Zhongmai Huang, Lei Li, Shusheng Huang, Eileen Hao Yu and Keith Scott

FRONT

OPEN RENEWABLE ENERGY JOURNAL

Volume 5, 2012

Small Scale Pilot Combustion Experiments with Wood Pellets â€“ The Effect of Pellet Length
Lauri Sikanen and *Teemu Vilppo* Pp 1-6
(06 April, 2012)

View Abstract Download PDF

Optimum Collector Tilt Angles For Low Latitudes
C.O.C. Oko and *S.N. Nnamchi* Pp 7-14
(04 May, 2012)

View Abstract Download PDF

Effect of Ageing in Structural Properties of ZnO Nanoparticles with pH Variation for Application in Solar Cells
Neetu Singh, Dhruvashi, Davinder Kaur, R. M. Mehra and *Avinashi Kapoor* Pp 15-18
(01 June, 2012)

View Abstract Download PDF

Structural Change, Vested Interests, and Scandinavian Energy Policy-Making: Why Wind Power Struggles in Norway and not in Denmark
Espen Moe Pp 19-31
(01 June, 2012)

View Abstract Download PDF

Catalytic Behaviour of $MnZrO_x$ System for Heterogenous Biodiesel Production
C. Cannilla, G. Bonura, F. Arena and *F. Frusteri* Pp 32-40
(13 July, 2012)

View Abstract Download PDF

Energy and Exergy Analyses of an Open Thermochemical Energy Storage System: Methodology and Illustrative Application
Ali Haji Abedin and *Marc A. Rosen* Pp 41-48
(27 July, 2012)

View Abstract Download PDF

Exact Analytical Analysis of Dye-Sensitized Solar Cell: Improved Method and Comparative Study
Renu Guliani, Amit Jain and *Avinashi Kapoor* Pp 49-60
(27 July, 2012)

View Abstract Download PDF

FRONT

RENEWABLE AND SUSTAINABLE ENERGY REVIEWS

Volume 16, Issue 1, 2012

The cost of transmission for wind energy in the United States: A review of transmission planning studies

Andrew Mills, Ryan Wiser, Kevin Porter. 1-19

Review of Taiwan's climate policy after Copenhagen

Chea Yuan Young, Wei Ming Huang 20-28

Development of a simulation model for a three-dimensional wind velocity field using Ténès Algeria as a case study

Fouad Boukli Hacène, Miloud Tahar Abbés, Nachida Kasbadji Merzouk, Larbi Loukarfi, Hacene Mahmoudi, Matheus F.A. Goosen 29-36

Solar drying of agricultural products: A review

A.A. El-Sebaii, S.M. Shalaby 37-43

Design recommendations for solar organic Rankine cycle (ORC)–powered reverse osmosis (RO) desalination

Agustín M. Delgado-Torres, Lourdes García-Rodríguez 44-53

Sustainability assessment of renewable energy projects for off-grid rural electrification: The Pangan-an Island case in the Philippines

George William Hong, Naoya Abe 54-64

Evaluating the interplays among economic growth and energy consumption and CO2 emission of China 1990–2007

Xiaohong Zhang, Jing Han, Hui Zhao, Shihuai Deng, Hong Xiao, Hong Peng, Yuanwei Li, Gang Yang, Fei Shen, Yanzong Zhang 65-72

Low exergy (LowEx) heating and cooling systems for sustainable buildings and societies

Arif Hepbasli 73-104

A model-based assessment of the impact of revitalised R&D investments on the European power sector

Tobias Wiesenthal, Arnaud Mercier, Burkhard Schade, Hrvoje Petric, Paul Dowling 105-112

Review of solar obligations in China

Hui Xie, Chen Zhang, Bin Hao, Shan Liu, Kunkun Zou 113-122

Classification of geothermal resources in Poland by exergy analysis—Comparative study

Antoni Barbacki 123-128

A framework for reviewing the trade-offs between, renewable energy, food, feed and wood production at a local level

Paul J. Burgess, Monica Rivas Casado, Jerry Gavu, Andrew Mead, Tim Cockerill, Richard Lord, Dan van der Horst, David C. Howard 129-142

Review of biodiesel composition, properties, and specifications

S. Kent Hoekman, Amber Broch, Curtis Robbins, Eric Ceniceros, Mani Natarajan 143-169

Net energy analysis of domestic solar water heating installations in operation

Patxi Hernandez, Paul Kenny 170-177

Review of the performance of residential PV systems in Belgium

Jonathan Leloux, Luis Narvarte, David Trebosc 178-184

Implementation of renewable energy in Scottish rural area: A social study

AHM Shamsuzzoha, Andy Grant, Joe Clarke 185-191

A review on sustainable design of renewable energy systems

Long Shi, Michael Yit Lin Chew 192-207

Review: Dye sensitized solar cells based on natural photosensitizers

Monishka Rita Narayan 208-215

Renewable energy sources in the Egyptian electricity market: A review

A. Ibrahim 216-230

FRONT

Measuring energy poverty: Focusing on what matters
Patrick Nussbaumer, Morgan Bazilian, Vijay Modi 231-243

What is the global potential for renewable energy?
Patrick Moriarty, Damon Honnery 244-252

Review on phase change material emulsions and microencapsulated phase change material slurries
Mónica Delgado, Ana Lázaro, Javier Mazo, Belén Zalba 253-273

Overview of energy storage systems for storing electricity from renewable energy sources in Saudi Arabia
Faizur Rahman, Shafiqur Rehman, Mohammed Arif Abdul-Majeed 274-283

A review and design study of blade testing systems for utility-scale wind turbines
P. Malhotra, R.W. Hyers, J.F. Manwell, J.G. McGowan 284-292

Fixed feed-in tariff versus premium: A review of the current Spanish system
Julieta Schallenberg-Rodriguez, Reinhard Haas 293-305

Energy production of photovoltaic systems: Fixed, tracking, and concentrating
Francisco Javier Gómez-Gil, Xiaoting Wang, Allen Barnett 306-313

Barriers to implement extensive green roof systems: A Hong Kong study
Xiaoling Zhang, Liyin Shen, Vivian W.Y. Tam, Winnie Wing Yan Lee 314-319

Electric vehicle charging infrastructure in Poland
G. Benysek, M. Jarnut 320-328

A review of the potential water quality impacts of tidal renewable energy systems
Margaret Kadiri, Reza Ahmadian, Bettina Bockelmann-Evans, William Rauen, Roger Falconer 329-341

Sustainable biogas energy in Poland: Prospects and challenges
Wojciech M. Budzianowski 342-349

Exergy analysis of solar energy applications
R. Saidur, G. BoroumandJazi, S. Mekhlif, M. Jameel 350-356

Financial optimization in the Turkish electricity market: Markowitz's mean-variance approach
Fazıl Gökgöz, Mete Emin Atmaca 357-368

A linear programming approach for the optimal planning of a future energy system. Potential contribution of energy recovery from municipal solid wastes
G. Xydis, C. Koroneos 369-378

A comparison between wind speed distributions derived from the maximum entropy principle and Weibull distribution. Case of study; six regions of Algeria
G. Xydis, C. Koroneos 369-378

A comparison between wind speed distributions derived from the maximum entropy principle and Weibull distribution. Case of study; six regions of Algeria
F. Chellali, A. Khellaf, A. Belouchrani, R. Khanniche 379-385

Solar energy in Malaysia: Current state and prospects
S. Mekhilef, A. Safari, W.E.S. Mustaffa, R. Saidur, R. Omar, M.A.A. Younis 386-396

The economic effects of energetic exploitation of straw in Vojvodina
Siniša N. Dodić, Vladislav N. Zekić, Vesna O. Rodić, Nedeljko Lj. Tica, Jelena M. Dodić, Stevan D. Popov 397-403

Electric energy demands of Turkey in residential and industrial sectors
Mehmet Bilgili, Besir Sahin, Abdulkadir Yasar, Erdogan Simsek 404-414

A review of the economical and optimum thermal insulation thickness for building applications
Omer Kaynakli 415-425

Renewable energy: Progressing towards a net zero energy island, the case of Reunion Island
Jean Philippe Praene, Mathieu David, Frantz Sinama, Dominique Morau, Olivier Marc 426-442

A review of standards for hybrid CPV-thermal systems
M. Vivar, M. Clarke, J. Pye, V. Everett 443-448

Solar energy: Markets, economics and policies
Govinda R. Timilsina, Lado Kurdgelashvili, Patrick A. Narbel 449-465

FRONT

Multitude of progress and unmediated problems of solar PV in Bangladesh
Mohammad Ziaur Rahman 466-473
Wind resource evaluation in São João do Cariri (SJC) – Paraiba, Brazil
Laerte de Araujo Lima, Celso Rosendo Bezerra Filho 474-480
A review of the performance of double pass solar air heater
Sunil Chamoli, Ranchan Chauhan, N.S. Thakur, J.S. Saini 481-492
A review on adsorption cooling systems with adsorbent carbon
Ahmed A. Askalany, M. Salem, I.M. Ismail, Ahmed Hamza H. Ali, M.G. Morsy 493-500
Is per capita electricity consumption stationary? Time series evidence from OECD countries
Ferit Kula, Alper Aslan, Ilhan Ozturk 501-503
A critical review of sampling standards for solid biofuels – Missing contributions from the Theory of Sampling (TOS)
Claas Wagner, Kim H. Esbensen 504-517
Utilization of pico hydro generation in domestic and commercial loads
Ahmed M.A. Haidar, Mohd F.M. Senan, Abdulhakim Noman, Taha Radman 518-524
Psychological factors influencing sustainable energy technology acceptance: A review-based comprehensive framework
N.M.A. Huijts, E.J.E. Molin, L. Steg 525-531
A review on energy pattern and policy for transportation sector in Malaysia
H.C. Ong, T.M.I. Mahlia, H.H. Masjuki
Applications of variable speed drive (VSD) in electrical motors energy savings
R. Saidur, S. Mekhilef, M.B. Ali, A. Safari, H.A. Mohammed 543-550
Comparative analysis of different grid-independent hybrid power generation systems for a residential load
Ioannis P. Panapakidis, Dimitrios N. Sarafianos, Minas C. Alexiadis 551-563
Solar energy outlook in Malaysia
Shing Chyi Chua, Tick Hui Oh 564-574
Evaluating benefits of low-cost household digesters for rural Andean communities
Marianna Garfí, Laia Ferrer-Martí, Enrique Velo, Ivet Ferrer 575-581
Convergence of rule-of-thumb sizing and allocating rules of distributed generation in meshed power networks
Faruk Ugranlı, Engin Karatepe 582-590
A primary study on a long-term vision and strategy for the realisation and the development of the Sahara Solar Breeder project in Algeria
A. Boudghene Stambouli, H. Koinuma 591-598
Review of R&D progress and practical application of the solar photovoltaic/thermal (PV/T) technologies
Xingxing Zhang, Xudong Zhao, Stefan Smith, Jihuan Xu, Xiaotong Yu 599-617
Utilization of renewable energies in Turkey's agriculture
Asiye Gül Bayrakcı, Günnur Koçar 618-633
Assessment of economic viability for PV/wind/diesel hybrid energy system in southern Peninsular Malaysia
Mei Shan Ngan, Chee Wei Tan 634-647
Development of a program of financial support on enhancing apartment houses maintenance in Korea—Focused on the U.S. and Japanese financial programs for housing maintenance in Korea
Sang-Hoon Park, Eun-Ho Oh 648-659
Register of hazardous materials in printing industry as a tool for sustainable development management
Jelena Kiurski, Branislav Marić, Dragan Adamović, Aleksandra Mihailović, Selena Grujić, Ivana Oros, Jelena Krstić 660-667
Analysis of the opportunities and challenges of solar water heating system (SWHS) in India: Estimates from the energy audit surveys & review
Punnaiah Veeraboina, G.Yesu Ratnam 668-676
Review of alternative methodologies for analysing off-grid electricity supply
Subhes C. Bhattacharyya 677-694

FRONT

Assessment of Korean customers' willingness to pay with RPS

Jihyo Kim, Jooyoung Park, Haeyeon Kim, Eunnyeong Heo 695-703

Performance evaluation of solar chimney power plants in Iran

Roozbeh Sangi 704-710

A review of the effects of catalyst and additive on biodiesel production, performance, combustion and emission characteristics

Syed Ameer Basha, K. Raja Gopal 711-717

Project portfolio management applied to building energy projects management system

Yunna Wu, Jiangshuai Li, Jiali Wang, Yong Huang 718-724

An evaluation of Chinese Wind Turbine Manufacturers using the enterprise niche theory

Zhen-yu Zhao, Wen-jun Ling, George Zillante 725-734

The potential for renewable energy in industrial applications

Emanuele Taibi, Dolf Gielen, Morgan Bazilian 735-744

Analysis of olive grove residual biomass potential for electric and thermal energy generation in Andalusia (Spain)

García-Maraver, M. Zamorano, A. Ramos-Ridao, L.F. Díaz 745-751

A GIS-based approach for evaluating the potential of biogas production from livestock manure and crops at a regional scale: A case study for the Kujawsko-Pomorskie Voivodeship

Beata Sliz-Szkliniarz, Joachim Vogt 752-763

Development of ecofriendly/biodegradable lubricants: An overview

Ponnekanti Nagendramma, Savita Kaul 764-774

Exercising multidisciplinary approach to assess interrelationship between energy use, carbon emission and land use change in a metropolitan city of Pakistan

Ghaffar Ali, Vilas Nitivattananon 775-786

A review on cool thermal storage technologies and operating strategies

Y.H. Yau, Behzad Rismanchi 787-797

A review of bio-oils from waste biomass: Focus on fish processing waste

Punyama Jayasinghe, Kelly Hawboldt 798-821

The research agenda on social acceptance of distributed generation in smart grids

Maarten Wolsink 822-835

Assessment of wind energy in Iran: A review

P. Alamdari, O. Nematollahi, M. Mirhosseini 836-860

Anaerobic digestion of solid organic substrates in batch mode: An overview relating to methane yields

F. Raposo, M.A. De la Rubia, V. Fernández-Cegrí, R. Borja 861-877

A review of climate change, mitigation and adaptation

S. VijayaVenkataRaman, S. Iniyan, Ranko Goic 878-897

Performance assessment of Alternative Energy Resources in Brazilian power sector using Data Envelopment Analysis

Marcos Estellita Lins, Luciano Basto Oliveira, Angela Cristina Moreira da Silva, Luiz Pinguelli Rosa, Amaro Olimpio Pereira Jr. 898-903

A review on solid oxide derived from waste shells as catalyst for biodiesel production

Jutika Boro, Dhanapati Deka, Ashim J. Thakur 904-910

A review on entropy generation in natural and mixed convection heat transfer for energy systems

Hakan F. Oztop, Khaled Al-Salem 911-920

An exergy analysis for cement industries: An overview

N.A. Madlool, R. Saidur, N.A. Rahim, M.R. Islam, M.S. Hossian

An exergy analysis for cement industries: An overview

N.A. Madlool, R. Saidur, N.A. Rahim, M.R. Islam, M.S. Hossian 921-932

Solar energy in India: Strategies, policies, perspectives and future potential

Naveen Kumar Sharma, Prashant Kumar Tiwari, Yog Raj Sood 933-941

FRONT

Thermochemical processing of meat and bone meal: A review
Esther Cascarosa, Gloria Gea, Jesús Arauzo 942-957
The analysis of renewable energy policies for the Taiwan Penghu island administrative region
Amy J.C. Trappey, Charles V. Trappey, Gilbert Y.P. Lin, Yu-Sheng Chang 958-965
Studies on ethanol production from water hyacinth—A review
A. Ganguly, P.K. Chatterjee, A. Dey 966-972
Grid electrification challenges, photovoltaic electrification progress and energy sustainability in Lesotho
B.M. Taele, L. Mokhutšoane, I. Hapazari, S.B. Tlali, M. Senatla 973-980
Comparative study of different fuel cell technologies
S. Mekhilef, R. Saidur, A. Safari 981-989
Households' access to electricity and energy consumption pattern in Nigeria
Musiliu O. Oseni 990-995
Natural resource demand of global biofuels in the Anthropocene: A review
Wenjie Liao, Reinout Heijungs, Gjalt Huppes 996-1003
The geothermal exploration of Campanian volcanoes: Historical review and future development
S. Carlino, R. Somma, C. Troise, G. De Natale 1004-1030
Wind energy development and its environmental impact: A review
Dennis Y.C. Leung, Yuan Yang 1031-1039
A technical review of building-mounted wind power systems and a sample simulation model 1040-1049
Anindita Karmakar, Subrata Karmakar, Souti Mukherjee 1050-1060
Biodiesel production from neem towards feedstock diversification: Indian perspective
Anindita Karmakar, Subrata Karmakar, Souti Mukherjee 1050-1060
Solar drying of wastewater sludge: A review
Lyes Bennamoun 1061-1073
Effect of building regulation on energy consumption in residential buildings in Korea
Doosam Song, Young-Jin Choi 1074-1081
Renewable energy in the Palestinian Territories: Opportunities and challenges
Tareq Abu Hamed, Hannah Flamm, Mohammad Azraq 1082-1088

Volume 16, Issue 2, 2012

Sustainability issues for promotion of Jatropha biodiesel in Indian scenario: A review
Sunil Kumar, Alok Chaube, Shashi Kumar Jain *1089-1098*
Baseload electricity from wind via compressed air energy storage (CAES)
James E. Mason, Cristina L. Archer *1099-1109*
Large scale wind power integration in China: Analysis from a policy perspective
Sufang Zhang, Xingmei Li *Pages 1110-1115*
Large scale wind power integration in China: Analysis from a policy perspective
Sufang Zhang, Xingmei Li 1110-1115
Energy for sustainable development: A case of developing countries
Kamil Kaygusuz 1116-1126
Review of the economic viability of investing and exploiting biogas electricity plant – Case study Vizelj, Serbia
Mirjana Golusin, Aleksandar Ostojic, Smilja Latinovic, Maja Jandric, Olja Munitlak Ivanovic 1127-1134
Application of the Structural Decomposition Analysis to assess the indirect energy consumption and air emission changes related to Italian households consumption
Maurizio Cellura, Sonia Longo, Marina Mistretta 1135-1145

FRONT

Regional sustainable water and energy development projects: A case of Southeastern Anatolia Project (GAP) in Turkey

Akpınar, K. Kaygusuz 1146-1156

Wind energy status in India: A short review

Atul Sharma, Jaya Srivastava, Sanjay Kumar 1157-1164

Wind energy and assessment of wind energy potential in Turkey

Cumali İlkiliç 1165-1173

Promoting the development of distributed concentrated solar thermal technology in China

Zhi-qiang Liu, Ai-xiang Xu, Yuan-yuan Lv, Xiao-xiao Wang 1174-1179

Macroanalysis of the economic and environmental impacts of a 2005–2025 European Union bioenergy policy using the GTAP model and life cycle assessment

Thomas Dandres, Caroline Gaudreault, Pablo Tirado-Seco, Réjean Samson 1180-1192

Biodiesel production by ultrasound-assisted transesterification: State of the art and the perspectives

Vlada B. Veljković, Jelena M. Avramović, Olivera S. Stamenković 1193-1209

RETRACTED: Challenges of information and communication technology in energy efficient smart homes

Dragan Markovic, Dragan Cvetkovic, Dejan Zivkovic, Ranko Popovic 1210-1216

A review on exergy analysis of biomass based fuels

R. Saidur, G. BoroumandJazi, S. Mekhilef, H.A. Mohammed 1217-1222

Energy models for demand forecasting—A review

L. Suganthi, Anand A. Samuel 1223-1240

Review on heat recovery technologies for building applications

AMardiana-Idayu, S.B. Riffat 1241-1255

Greenhouse gas emission savings of ground source heat pump systems in Europe: A review

Peter Bayer, Dominik Saner, Stephan Bolay, Ladislaus Rybach, Philipp Blum 1256-1267

Multi-operation management of a typical micro-grids using Particle Swarm Optimization: A comparative study

Amjad Anvari Moghaddam, Alireza Seifi, Taher Niknam 1268-1281

Management of natural gas resources and search for alternative renewable energy resources: A case study of Pakistan

Sidra Nisar Malik, Osama Rafiq Sukhera 1282-1290

Carbon sequestration by forestation across China: Past, present, and future

Lin Huang, Jiyuan Liu, Quanqin Shao, Xinliang Xu 1291-1299

A comparison for Turkish provinces' performance of urban air pollution

Aylin Çiğdem Köne, Tayfun Büke 1300-1310

Energy saving instrument – ESCerts in India

Tanushree Bhattacharya, Richa Kapoor 1311-1316

The use of natural gas and geothermal energy in school units. Greece: A case study

Agisilaos Economou 1317-1322

Dominant height growth and site index curves for Calabrian pine (Pinus brutia Ten.) in central Cyprus

Kyriaki Kitikidou, Petros Petrou, Elias Milios 1323-1329

Coefficient of performance (COP) analysis of geothermal district heating systems (GDHSs): Salihli GDHS case study

Leyla Ozgener 1330-1334

Energy production trend in Iran and its effect on sustainable development

Hossein Bakhoda, Morteza Almassi, Naser Moharamnejad, Reza Moghaddasi, Mostafa Azkia 1335-1339

FRONT

Applications of artificial neural networks for refrigeration, air-conditioning and heat pump systems—A review

M. Mohanraj, S. Jayaraj, C. Muraleedharan 1340-1358

Uncertainties and sustainability concepts in biofuel supply chain management: A review

Iddrisu Awudu, Jun Zhang 1359-1368

Review of the performance of residential PV systems in France

Jonathan Leloux, Luis Narvarte, David Trebosc 1369-1376

Volume 16, Issue 3, 2012

Bioenergy potential from crop residues in China: Availability and distribution

Dong Jiang, Dafang Zhuang, Jinying Fu, Yaohuan Huang, Kege Wen 1377-1382

Advancement in solar photovoltaic/thermal (PV/T) hybrid collector technology

V.V. Tyagi, S.C. Kaushik, S.K. Tyagi 1383-1398

Stochastic techniques used for optimization in solar systems: A review

Naveen Sharma, Varun, Siddhartha 1399-1411

Optimum design of hybrid renewable energy systems: Overview of different approaches

O. Erdinc, M. Uzunoglu

Review of sustainable biomass pellets production – A study for agricultural residues pellets' market in Greece

V. Karkania, E. Fanara, A. Zabaniotou

Mapping of solar energy potential in Indonesia using artificial neural network and geographical information system

Meita Rumbayan, Asifujiang Abudureyimu, Ken Nagasaka 1437-1449

The Brazilian experience of rural electrification in the Amazon with decentralized generation – The need to change the paradigm from electrification to development

Rudi Henri van Els, João Nildo de Souza Vianna, Antonio Cesar Pinho Brasil Jr.

Methane production from lignocellulosic agricultural crop wastes: A review in context to second generation of biofuel production

R. Chandra, H. Takeuchi, T. Hasegawa

Review of windcatcher technologies

Omidreza Saadatian, Lim Chin Haw, K. Sopian, M.Y. Sulaiman 1477-1495

Wind energy potential assessment for the Sultanate of Oman

Joseph A. Jervase, Ali M. Al-Lawati 1496-1507

A review on the economic dispatch and risk management of the large-scale plug-in electric vehicles (PHEVs)-penetrated power systems

Minghong Peng, Lian Liu, Chuanwen Jiang 1508-1515

Possibility of efficient utilization of wood waste as a renewable energy resource in Serbia

Bojan Đerčan, Tamara Lukić, Milka Bubalo-Živković, Branislav Đurđev, Rastislav Stojsavljević, Milana Pantelić 1516-1527

Potential wind power generation in South Egypt

Ahmed Shata Ahmed 1528-1536

RETRACTED: Water desalination systems Powered by Renewable energy sources, Review

A.M.K. El-Ghonemy 1537-1556

Status and potential of biogas energy from animal wastes in Turkey

A. Onurbaş Avcioğlu, U. Türker 1557-1561

FRONT

Feasibility study of developing photovoltaic power projects in Italy: An integrated approach

Federica Cucchiella, Idiano D'Adamo 1562-1576

A comprehensive method for optimal power management and design of hybrid RES-based autonomous energy systems

S. Abedi, A. Alimardani, G.B. Gharehpetian, G.H. Riahy, S.H. Hosseinian

Modeling HCCI combustion of biofuels: A review

N.P. Komninos, C.D. Rakopoulos 1588-1610

Is there a space for additional renewable energy in the Norwegian power system? Potential for reduced global emission?

Alemayehu Gebremedhin, Jarle De Oliveira Granheim 1611-1615

Assessment of tree seed oil biodiesel: A comparative review based on biodiesel of a locally available tree seed

Dilip Kumar Bora, D.C. Baruah 1616-1629

Electricity generation from the first wind farm situated at Ras Ghareb, Egypt

Ahmed Shata Ahmed

Computing global and diffuse solar hourly irradiation on clear sky. Review and testing of 54 models

Viorel Badescu, Christian A. Gueymard, Sorin Cheval, Cristian Oprea, Madalina Baciu, Alexandru Dumitrescu, Flavius Iacobescu, Ioan Milos, Costel Rada 1636-1656

Sewage sludge-to-energy approaches based on anaerobic digestion and pyrolysis: Brief overview and energy efficiency assessment

Yucheng Cao, Artur Pawłowski 1657-1665

The effect of 107th OPEC Ordinary Meeting on oil prices and economic performances in Japan

Kunihiro Hanabusa 1666-1672

Investment appraisal of a small, grid-connected photovoltaic plant under the Serbian feed-in tariff framework

Sanja Stevanović, Mila Pucar 1673-1682

Review on fuel economy standard and label for vehicle in selected ASEAN countries

A.S. Silitonga, A.E. Atabani, T.M.I. Mahlia 1683-1695

Formation and impact of granules in fostering clean energy production and wastewater treatment in upflow anaerobic sludge blanket (UASB) reactors

Tasneem Abbasi, S.A. Abbasi 1696-1708

Characterization of solar flat plate collectors

F. Cruz-Peragon, J.M. Palomar, P.J. Casanova, M.P. Dorado, F. Manzano-Agugliaro 1709-1720

Risk management for jatropha curcas based biodiesel industry of Panzhihua Prefecture in Southwest China

Xuan Liu, Meng Ye, Biao Pu, Zhikang Tang 1709-1743

Assessment of world lithium resources and consequences of their geographic distribution on the expected development of the electric vehicle industry

Camille Grosjean, Pamela Herrera Miranda, Marion Perrin, Philippe Poggi 1735-1744

Energy and environmental balance of biogas for dual-fuel mobile applications

S. Lacour, T. Chinese, D. Alkadee, C. Perilhon, G. Descombes 1745-1753

Control techniques for reduction of the total harmonic distortion in voltage applied to a single-phase inverter with nonlinear loads: Review

R. Ortega, E. Figueres, G. Garcerá, C.L. Trujillo, D. Velasco 1754-1761

Impact of alternative fuel properties on fuel spray behavior and atomization

Rajesh Kumar Pandey, A. Rehman, R.M. Sarviya 1762-1778

FRONT

Volume 16, Issue 4, 2012

Waste heat recovery from a landfill gas-fired power plant

Daniela Gewald, Konstantinos Siokos, Sotirios Karellas, Hartmut Spliethoff 1779-1789

Implementation of biofuels in Malaysian transportation sector towards sustainable development: A case study of international cooperation between Malaysia and Japan

Steven Lim, Keat Teong Lee 1790-1800

Thermo chemical conversion of biomass – Eco friendly energy routes

N.L. Panwar, Richa Kothari, V.V. Tyagi 1801-1816

Numerical simulation and optimal design for composite high-pressure hydrogen storage vessel: A review

P.F. Liu, J.K. Chu, S.J. Hou, P. Xu, J.Y. Zheng 1817-1827

History and current status of the motor vehicle energy labeling and its implementation possibilities in Malaysia

T.M.I. Mahlia, S. Tohno, T. Tezuka 1828-1844

Design for sustainability in automotive industry: A comprehensive review

Ahmad Mayyas, Ala Qattawi, Mohammed Omar, Dongri Shan 1845-1862

A review on surface control of thermal radiation by paints and coatings for new energy applications

S. Wijewardane, D.Y. Goswami 1863-1873

Effective solar radiation based benefit and cost analyses for solar water heater development in Taiwan

Tze-Chin Pan, Jehng-Jung Kao, Chih-Po Wong 1874-1882

Plate heat exchangers: Recent advances

Mazen M. Abu-Khader 1883-1891

Courtyard housing in midrise buildings: An environmental assessment in hot-arid climate

Nada Al-Masri, Bassam Abu-Hijleh 1892-1898

A review of working fluids of absorption cycles

Jian Sun, Lin Fu, Shigang Zhang 1899-1906

Review on wind power development and relevant policies in China during the 11th Five-Year-Plan period

Junjie Kang, Jiahai Yuan, Zhaoguang Hu, Yan Xu 1907-1915

Energy efficiency status of the community housing in Australia

Tania Urmee, Sid Thoo, Winnie Killick 1916-1925

Vertical axis wind turbine – A review of various configurations and design techniques

Muhammad Mahmood Aslam Bhutta, Nasir Hayat, Ahmed Uzair Farooq, Zain Ali, Sh. Rehan Jamil, Zahid Hussain 1926-1939

Sustainability performance disclosures: The case of independent power producers

Artie W. Ng, Jatin Nathwani 1940-1948

Assessing energy sustainability of rural communities using Principal Component Analysis

Haris Doukas, Alexandra Papadopoulou, Theocharis Tsoutsos, John Psarras 1949-1957

Reviews of power systems and environmental energy conversion for unmanned underwater vehicles

Xiaoming Wang, Jianzhong Shang, Zirong Luo, Li Tang, Xiangpo Zhang, Juan Li 1958-1970

Energy resources—The ultimate solution

Muhammad Shafiq Siraj 1971-1976

The prime criteria for private sector participation in renewable energy investment in the Middle East (case study: Iran)

Alireza Aslani, Marja Naaranoja, Bahnam Zakeri 1977-1987

FRONT

Analysis of scenarios for the reduction of energy consumption and GHG emissions in transport in the Basque Country

Gorka Bueno 1988-1998

Form-stable phase change materials for thermal energy storage

Murat M. Kenisarin, Kamola M. Kenisarina 1999-2040

Photovoltaic electricity scenario analysis in urban contests: An Italian case study

M. Cellura, A. Di Gangi, S. Longo, A. Orioli 2041-2052

Spatial variation of environmental impacts of regional biomass chains

F. van der Hilst, J.P. Lesschen, J.M.C. van Dam, M. Riksen, J.P.M. Sanders, A.P.C. Faaij 2053-2069

A comprehensive review on biodiesel as an alternative energy resource and its characteristics

A.E. Atabani, A.S. Silitonga, Irfan Anjum Badruddin, T.M.I. Mahlia, H.H. Masjuki, S. Mekhilef 2070-2093

A review of intercalation composite phase change material: Preparation, structure and properties

Min Li, Zhishen Wu 2094-2101

Toxicological aspects of nanomaterials used in energy harvesting consumer electronics

Sergio Manzetti, Otto Andersen 2102-2110

Exploitation and utilization of the wind power and its perspective in China

Yu Ling, Xu Cai 2111-2121

Review on storage materials and thermal performance enhancement techniques for high temperature phase change thermal storage systems

Ming Liu, Wasim Saman, Frank Bruno 2123-2132

Greenhouse gas emission reduction perspectives in the Baltic States in frames of EU energy and climate policy

Inge Roos, Sulev Soosaar, Anna Volkova, Dalia Streimikene 2133-2146

The link between renewable energy production and gross domestic product in Africa: A comparative study between 1980 and 2008

F.H. Abanda, A. Ng'ombe, R. Keivani, J.H.M. Tah 2147-2153

A review of energy storage technologies for wind power applications

Francisco Díaz-González, Andreas Sumper, O Gomis-Bellmunt, Roberto Villafáfila-Robles 2154-2171

The impact of international GHG trading regimes on penetration of new energy technologies and feasibility to implement EU Energy and Climate Package targets

Dalia Streimikiene 2172-2177

Review and prospects of Jatropha biodiesel industry in China

Cheng-Yuan Yang, Zhen Fang, Bo Li, Yun-feng Long 2178-2190

Looking into the Danish energy system: Lesson to be learned by other communities

Ranjan Parajuli 2191-2199

Roles and potentials of renewable energy in less-developed economies: The case of Nepal

Rabindra Nepal 2200-2206

Towards a de-carbonized energy system in north-eastern Morocco: Prospective geothermal resource

Abdelkrim Rimi, Yassine Zarhloule, Alae Eddine Barkaoui, Antonio Correia, Julio Carneiro, Massimo Verdoya, Francis Lucazeau 2207-2216

Assessing the sustainability challenges for electricity industries in ASEAN newly industrialising countries

Peerapat Vithayasrichareon, Iain F. MacGill, Thanawat Nakawiro 2217-2233

Finite time thermodynamic evaluation of endoreversible Stirling heat engine at maximum power conditions

Iskander Tlili

Investment in wind power and pumped storage in a real options model

Wolf Heinrich Reuter, Sabine Fuss, Jana Szolgayová, Michael Obersteiner

FRONT

A review of heat pipe systems for heat recovery and renewable energy applications

Hassam Nasarullah Chaudhry, Ben Richard Hughes, Saud Abdul Ghani

A review: Energy recovery in batch processes

Inmaculada Fernández, Carlos J. Renedo, Severiano F. Pérez, Alfredo Ortiz, Mario Mañana

An overview of ocean renewable energy resources in Korea

Gunwoo Kim, Myung Eun Lee, Kwang Soo Lee, Jin-Soon Park, Weon Mu Jeong, Sok Kuh Kang, Jae-Gwi Soh, Hanna Kim

Review on solar air heating system with and without thermal energy storage system

V.V. Tyagi, N.L. Panwar, N.A. Rahim, Richa Kothari 2289-2303

Mathematical and computational approaches for design of biomass gasification for hydrogen production: A review

Tigabwa Y. Ahmed, Murni M. Ahmad, Suzana Yusup, Abrar Inayat, Zakir Khan 2304-2315

A review on energy scenario and sustainable energy in Indonesia

M.H. Hasan, T.M.I. Mahlia, Hadi Nur

An overview of global climate changing in current scenario and mitigation action

Pragya Nema, Sameer Nema, Priyanka Roy 2329-2336

Fermentative hydrogen production – An alternative clean energy source

Richa Kothari, D.P. Singh, V.V. Tyagi, S.K. Tyagi 2337-2346

Development of suitable photobioreactor for algae production – A review

R.N. Singh, Shaishav Sharma 2347-2353

Volume 16, Issue 5, 2012

Possibilities of application of waste wood biomass as an energy source in Vojvodina

Siniša N. Dodić, Tamara Zelenović Vasiljević, Radenko M. Marić, Aleksandar J. Radukin Kosanović, Jelena M. Dodić, Stevan D. Popov 2355-2360

The relationship among natural gas energy consumption, capital and economic growth: Bootstrap-corrected causality tests from G-7 countries

Hakan Kum, Oguz Ocal, Alper Aslan 2361-2365

A review on current status of hydrogen production from bio-oil

Shyamsundar Ayalur Chattanathan, Sushil Adhikari, Nourredine Abdoulmoumine 2366-2372

Universalization of access to modern energy services in Tibetan rural households—Renewable energy's exploitation, utilization, and policy analysis

Guo-liang Luo, Xinghua Zhang 2373-2380

Wind energy for rural areas of Algeria

Y. Himri, S. Rehman, A. Agus Setiawan, S. Himri 2381-2385

Operation challenges for fast-growing China's hydropower systems and respondence to energy saving and emission reduction

Chun-Tian Cheng, Jian-Jian Shen, Xin-Yu Wu, Kwok-wing Chau 2386-2393

Sustainable thermal energy storage technologies for buildings: A review

R. Parameshwaran, S. Kalaiselvam, S. Harikrishnan, A. Elayaperumal 2394-2433

Comparison of carbon dioxide and nuclear waste storage costs in Lithuania

Dalia Streimikiene 2434-2445

Mitigation measures to reduce greenhouse gas emissions and enhance carbon capture and storage in Saudi Arabia

Syed Masiur Rahman, A.N. Khondaker 2446-2460

FRONT

Parameterization of daily solar irradiance variability

D. Czekalski, A. Chochowski, P. Obstawski 2461-2467

Trade-off between environmental and economic implications of PV systems integrated into the UAE residential sector

Hassan Radhi 2468-2474

Rural household livelihood change, fuelwood substitution, and hilly ecosystem restoration: Evidence from China

Chengchao Wang, Yusheng Yang, Yaoqi Zhang 2475-2482

Utilities' business models for renewable energy: A review

Mario Richter 2483-2493

Materials, morphologies and structures of MEAs in DMFCs

S.K. Kamarudin, N. Hashim 2494-2515

A review on solar-powered closed physisorption cooling systems

H.Z. Hassan, A.A. Mohamad 2516-2538

A review of available methods for surface shape measurement of solar concentrator in solar thermal power applications

Jun Xiao, Xiudong Wei, Zhenwu Lu, Weixing Yu, Hongsheng Wu 2539-2544

Geoenergy in Poland

Bartłomiej Igliński, Roman Buczkowski, Wojciech Kujawski, M Cichosz, Grzegorz Piechota 2545-2557

The role of pumped storage systems towards the large scale wind integration in the Greek power supply system

G. Caralis, D. Papantonis, A. Zervos 2558-2565

Towards sewage sludge based biofuels via thermochemical conversion – A review

P. Manara, A. Zabaniotou 2566-2582

On energy for sustainable development in Nigeria

Sunday Olayinka Oyedepo 2583-2598

Post-combustion carbon dioxide capture: Evolution towards utilization of nanomaterials

Zhi Hua Lee, Keat Teong Lee, Subhash Bhatia, Abdul Rahman Mohamed 2599-2609

Regulatory failures for nuclear safety – the bad example of Japan – implication for the rest of world

Qiang Wang, Xi Chen 2610-2617

Prospects of wind energy sector development in Serbia with relevant regulatory framework overview

Dragan Komarov, Slobodan Stupar, Aleksandar Simonović, Marija Stanojević 2618-2630

Analysis on energy intensive industries under Taiwan's climate change policy

Kuei Tien Chou, Hwa Meei Liou 2631-2642

A comprehensive review of solar facades. Transparent and translucent solar facades

Guillermo Quesada, Daniel Rousse, Yvan Dutil, Messaoud Badache, Stéphane Hallé 2643-2651

A review of solar drying technologies

S. VijayaVenkataRaman, S. Iniyan, Ranko Goic 2652-2670

Critical review on the current scenario and significance of crude glycerol resulting from biodiesel industry towards more sustainable renewable energy industry

Muhammad Ayoub, Ahmad Zuhairi Abdullah 2671-2686

Bridging the scales: A conceptual model for coordinated expansion of renewable power generation, transmission and storage

Markus Haller, Sylvie Ludig, Nico Bauer 2687-2695

Organic light emitting diodes: Energy saving lighting technology—A review

N. Thejo Kalyani, S.J. Dhoble 2696-2723

FRONT

Energy, environment and development in Cuba

José Antonio Suárez, Pedro Anibal Beatón, Ronoldy Faxas Escalona, Ofelia Pérez Montero 2724-2731

Greener energy: Issues and challenges for Pakistan-hydel power prospective

Abdul Waheed Bhutto, Aqeel Ahmed Bazmi, Gholamreza Zahedi 2732-2746

Mitigating the anthropogenic global warming in the electric power industry

M.F. Akorede, H. Hizam, M.Z.A. Ab Kadir, I. Aris, S.D. Buba 2747-2761

Greener energy: Issues and challenges for Pakistan—Solar energy prospective

Abdul Waheed Bhutto, Aqeel Ahmed Bazmi, Gholamreza Zahedi 2762-2780

Sewage sludge pyrolysis for liquid production: A review

Isabel Fonts, Gloria Gea, Manuel Azuara, Javier Ábrego, Jesús Arauzo 2781-2805

Environmental, technical and financial feasibility study of solar power plants by RETScreen, according to the targeting of energy subsidies in Iran

Alireza Hajiseyed Mirzahosseini, Taraneh Taheri 2806-2811

A review on energy and exergy analysis of solar dying systems

N.L. Panwar, S.C. Kaushik, Surendra Kothari 2812-2819

A comprehensive review of solar facades. Opaque solar facades

Guillermo Quesada, Daniel Rousse, Yvan Dutil, Messaoud Badache, Stéphane Hallé 2820-2832

Assessment of three types of heat pipe solar collectors

E. Azad 2833-2838

Recent developments on heterogeneous catalysts for biodiesel production by oil esterification and transesterification reactions: A review

M.E. Borges, L. Díaz

A review of the environmental and human impacts from wind parks. A case study for the Prefecture of Lasithi, Crete

Dimitris Al. Katsaprakakis 2850-2863

A review of solar energy modeling techniques

Tamer Khatib, Azah Mohamed, K. Sopian 2854-2869

Jatropha curcas: A potential biofuel plant for sustainable environmental development

Vimal Chandra Pandey, Kripal Singh, Jay Shankar Singh, A Kumar, B. Singh, Rana P. Singh 2870-2883

Analyzing the Greek renewable energy sector: A Data Envelopment Analysis approach

George E. Halkos, Nickolaos G. Tzeremes 2884-2893

Ecological efficiency and thermoeconomic analysis of a cogeneration system at a hospital

Jose Luz Silveira, Wendell de Queiroz Lamas, Celso Eduardo Tuna, Iraides Aparecida de Castro Villela, Laura Siso Miro 2894-2906

Economic and environmental benefits of landfill gas from municipal solid waste in Malaysia

Anwar Johari, Saeed Isa Ahmed, Haslenda Hashim, Habib Alkali, Mat Ramli 2907-2912

Progress in renewable energy under clean development mechanism in India

Himanshu Nautiyal, Varun 2913-2919

Effect of dust, humidity and air velocity on efficiency of photovoltaic cells

S. Mekhilef, R. Saidur, M. Kamalisarvestani 2920-2925

Hybrid renewable energy systems for power generation in stand-alone applications: A review

Prabodh Bajpai, Vaishalee Dash 2926-2939

Life cycle CO_2 assessment of concrete by compressive strength on construction site in Korea

Junghoon Park, Sungho Tae, Taehyung Kim 2940-2946

FRONT

Environmental Kuznets Curve hypothesis in Pakistan: Cointegration and Granger causality
Muhammad Shahbaz, Hooi Hooi Lean, Muhammad Shahbaz Shabbir 2947-2953
A review of agricultural crop residue supply in Canada for cellulosic ethanol production
Xue Li, Edmund Mupondwa, S. Panigrahi, Lope Tabil, Shahab Sokhansanj, Mark Stumborg 2954-2965
Impact of nanotechnology advances in ICT on sustainability and energy efficiency
Dragan S. Markovic, Dejan Zivkovic, Dragan Cvetkovic, Ranko Popovic 2966-2972
Application of low waste technologies for design and construction: A case study in Hong Kong
Xiaoling Zhang, Yuzhe Wu, Liyin Shen 2973-2979
Experimental validation of pressure loss in anemometer testing equipment
Michele Messina 2980-2987
The willingness of hoteliers to adopt proactive management practices to face energy issues
Ioannis E. Nikolaou, Haris Vitouladitis, Konstantinos P. Tsagarakis 2988-2993
Assessment of the renewable energies potential for intensive electricity production in the province of Jaén, southern Spain
J.A. Ruiz-Arias, J. Terrados, P. Pérez-Higueras, D. Pozo-Vázquez, G. Almonacid 2994-3001
Solar water heating potential in South Africa in dynamic energy market conditions
Georgi Donev, Wilfried G.J.H.M. van Sark, Kornelis Blok, Ognjan Dintchev 3002-3013
Assessment of the wind energy resource in the South Banat region, Serbia
Željko Đurišić, Jovan Mikulović 3014-3023
Hydrogen as an energy carrier: Prospects and challenges
Kaveh Mazloomi, Chandima Gomes
Technical review of wind energy potential as small-scale power generation sources in Penang Island Malaysia
Tow Leong Tiang, Dahaman Ishak 3034-3042
Carbon dioxide capture from flue gases using microalgae: Engineering aspects and biorefinery concept
J.C.M. Pires, M.C.M. Alvim-Ferraz, F.G. Martins, M. Simões
A review on the performance of Savonius wind turbines
João Vicente Akwa, Horácio Antonio Vielmo, Adriane Prisco Petry 3054-3064
A review of the mathematical models for predicting the heating value of biomass materials
J.M. Vargas-Moreno, A.J. Callejón-Ferre, J. Pérez-Alonso, B. Velázquez-Martí 3065-3083
A review on utilisation of biomass from rice industry as a source of renewable energy
Jeng Shiun Lim, Zainuddin Abdul Manan, Sharifah Rafidah Wan Alwi, Haslenda Hashim 3084-3094
Liquid biofuels in China: Current status, government policies, and future opportunities and challenges
Huanguang Qiu, Laixiang Sun, Jikun Huang, Scott Rozelle 3095-3104
Current facts about offshore wind farms
A. Madariaga, I. Martínez de Alegría, J.L. Martín, P. Eguía, S. Ceballos 3105-3116
Recent advances in reuse of waste material as substrate to produce biohydrogen by purple non-sulfur (PNS) bacteria
Ta Yeong Wu, Jacqueline Xiao Wen Hay, Liu Bi Kong, Joon Ching Juan, Jamaliah Md. Jahim 3117-3122
Economic evaluation of hybrid renewable energy systems for rural electrification in Iran—A case study
Arash Asrari, Abolfazl Ghasemi, Mohammad Hossein Javidi 3123-2130
A review on the relation between the energy and exergy efficiency analysis and the technical characteristic of the renewable energy systems
G. BoroumandJazi, R. Saidur, B. Rismanchi, S. Mekhilef 3131-3135

FRONT

Energy saving latent heat storage and environmental friendly humidity-controlled materials for indoor climate

Zhonghao Rao, Shuangfeng Wang, Zhengguo Zhang 3136-3145

LCA application in the optimum design of high rise steel structures

Young Sang Cho, Jeom Han Kim, Seong Uk Hong, Yuri Kim 3146-3153

A review of turbulence promoters used in solar thermal systems

Sunil Chamoli, N.S. Thakur, J.S. Saini 3154-3175

Developments in international solid biofuel trade—An analysis of volumes, policies, and market factors

Patrick Lamers, Martin Junginger, Carlo Hamelinck, André Faaij 3176-3199

What makes people adopt improved cookstoves? Empirical evidence from rural northwest Pakistan

Inayatullah Jan 3200-3205

A review on the pattern of electricity generation and emission in Indonesia from 1987 to 2009

M.H. Hasan, W.K. Muzammil, T.M.I. Mahlia, A. Jannifar, I. Hasanuddin 3206-3219

A review of maximum power point tracking algorithms for wind energy systems

M.A. Abdullah, A.H.M. Yatim, C.W. Tan, R. Saidur 3220-3227

Anaerobic digestion for global warming control and energy generation—An overview

Tasneem Abbasi, S.M. Tauseef, S.A. Abbasi 3228-3242

Chinese energy and climate policies after Durban: Save the Kyoto Protocol

Yu Hu, Carlos Rodríguez Monroy 3243-3250

Present status of renewable energy resources in Jammu and Kashmir State of India

Shiv Kumar Lohan, Sushil Sharma 3251-3258

The districts of Lithuania with low heat demand density: A chance for the integration of straw biomass

Laurencas Raslavičius, Laimonas Narbutas, Anupras Šlančiauskas, Algis Džiugys, Žilvinas Bazaras 3259-3269

Future trends of bioethanol co-production in Serbian sugar plants

Jovana A. Grahovac, J. M. Dodić, S. N. Dodić, S. D. Popov, Damjan G. Vučurović, A. I. Jokić 3270-3274

Production of biodiesel using high free fatty acid feedstocks

I.M. Atadashi, M.K. Aroua, A.R. Abdul Aziz, N.M.N. Sulaiman 3275-3285

Potential of fungi as category I Consolidated BioProcessing organisms for cellulosic ethanol production

Antonella Amore, Vincenza Faraco 3286-3301

Prioritizing sustainable electricity production technologies: MCDM approach

Dalia Streimikiene, Tomas Balezentis, Irena Krisciukaitienė, Alvydas Balezentis 3302-3311

Wind energy in Egypt: Economic feasibility for Cairo

Yasmina Abdellatif Hamouda 3312-3319

Opportunities and challenges in setting up solar photo voltaic based micro grids for electrification in rural areas of India

P. Raman, J. Murali, D. Sakthivadivel, V.S. Vigneswaran 3320-3325

National geodatabase of tidal stream power resource in USA

Lafer Defne, Kevin A. Haas, Hermann M. Fritz, Lide Jiang, Steven P. French, Xuan Shi, Brennan T. Smith, Vincent S. Neary, Kevin M. Stewart 3326-3338

Looking for hysteresis in coal consumption in the US

Emilio Congregado, Antonio A. Golpe, Mónica Carmona 3339-3343

Understanding the temperature-induced mechanical behaviour of energy pile foundations

M.E. Suryatriyastuti, H. Mroueh, S. Burlon 3344-3354

FRONT

Development of adsorption air-conditioning technology using modified activated carbon – A review

T.H.C. Yeo, I.A.W. Tan, M.O. Abdullah 3355-3363

Multi-objective optimization of a stand-alone hybrid renewable energy system by using evolutionary algorithms: A review

M. Fadaee, M.A.M. Radzi 3364-3369

Grid integration of intermittent renewable energy sources using price-responsive plug-in electric vehicles

David Dallinger, Martin Wietschel 3370-3382

Solar chimney power plant performance in Iran

A. Asnaghi, S.M. Ladjevardi 3383-3390

Intermediate technologies towards low-carbon economy. The Greek zeolite CCS outlook into the EU commitments

Konstantinos I. Vatalis, Aatto Laaksonen, George Charalampides, Nikolas P. Benetis 3391-3400

A critical review on corrosion of compression ignition (CI) engine parts by biodiesel and biodiesel blends and its inhibition

B. Singh, John Korstad, Y.C. Sharma 3401-3408

Formation, potential and abatement of plume from wet cooling towers: A review

S.K. Tyagi, A.K. Pandey, P.C. Pant, V.V. Tyagi 3409-3429

Status of biogas technologies and policies in South Korea

Yong-Sung Kim, Young-Man Yoon, Chang-Hyun Kim, Jens Giersdorf 3430-3438

Summer thermal behaviour of compact single family housing in a temperate climate in Argentina

C. Filippín, S. Flores Larsen 3439-3455

The effects of water on biodiesel production and refining technologies: A review

I.M. Atadashi, M.K. Aroua, A.R. Abdul Aziz, N.M.N. Sulaiman 3456-3470

Volume 16, Issue 6, 2012

Energy efficient design of building: A review

R. Pacheco, J. Ordóñez, G. Martínez 3559-3573

Regulatory transparency—How China can learn from Japan's nuclear regulatory failures?

Qiang Wang, Xi Chen 3574-3578

Impact of daylight quality on architectural space dynamics: Case study: City Mall – Amman, Jordan

May M. Hourani, Rizeq N. Hammad 3579-3585

A review on the prediction of building energy consumption

Hai-xiang Zhao, Frédéric Magoulès 3586-3592

Determinants of success for promoting solar energy in Rajasthan, India

Shreemat Pandey, Vijai Shanker Singh, Naresh Pal Gangwar, M.M. Vijayvergia, Chandra Prakash, Deep Narayan Pandey 3593-3598

Bitter sweet: How sustainable is bio-ethanol production in Brazil?

Hossein Azadi, Sanne de Jong, Ben Derudder, Philippe De Maeyer, Frank Witlox 3599-3603

Producer perceptions and information needs regarding their adoption of bioenergy crops

María B. Villamil, Myles Alexander, Anne Heinze Silvis, Michael E. Gray 3604-3612

Comparative assessment of policies targeting energy use efficiency in Lithuania

Dalia Streimikiene, Andzej Volochovic, Zaneta Simanaviciene 3613-3620

Biodiesel production from non-edible plant oils

Ivana B. Banković-Ilić, Olivera S. Stamenković, Vlada B. Veljković 3621-3647

FRONT

A review of energy use and energy efficiency technologies for the textile industry

Ali Hasanbeigi, Lynn Price 3648-3665

Massive Solar-Thermal Collectors: A critical literature review

Matteo D'Antoni, Onorio Saro 3666-3679

Biodiesel resources and production technologies – A review

B.L. Salvi, N.L. Panwar 3680-3689

The predominance of economic development in the support for large-scale wind farms in the U.S. Great Plains

Michael C. Slattery, Becky L. Johnson, Jeffrey A. Swofford, Martin J. Pasqualetti 3690-3701

Influence of fuel properties and composition on NO_x emissions from biodiesel powered diesel engines: A review

K. Varatharajan, M. Cheralathan 3702-3710

An investigation into the potential barriers facing the development of offshore wind energy in Scotland: Case study – Firth of Forth offshore wind farm

Aoife O'Keeffe, Claire Haggett

Focus on situation and policies for biomass power generation in China

Zhao Xingang, Wang Jieyu, Liu Xiaomeng, Feng Tiantian, Liu Pingkuo 3722-3729

Need for an embodied energy measurement protocol for buildings: A review paper

Manish K. Dixit, Jose L. Fernández-Solís, Sarel Lavy, Charles H. Culp 3730-3743

Insects for biodiesel production

. Manzano-Agugliaro, M.J. Sanchez, F.G. Barroso, A. Martínez-Sánchez, C. Pérez-Bañón 3744-3753

A discussion on recent developments in Turkey's emerging solar power market

Sermin Oguz Topkaya *3754-3765*

Life cycle assessment of energy generation from biogas—Attributional vs. consequential approach

T. Rehl, J. Lansche, J. Müller 3766-3775

State of the art of solar cooking: An overview

N.L. Panwar, S.C. Kaushik, Surendra Kothari 3776-3785

The renewable energy market in Brazil: Current status and potential

Marcio Giannini Pereira, Cristiane Farias Camacho, Marcos Aurélio Vasconcelos Freitas, Neilton Fidelis da Silva 3786-3802

Review on development and demonstration of hydrogen fuel cell scooters

Jenn Jiang Hwang 3803-3815

Global warming and environmental benefits of hydroelectric for sustainable energy in Turkey

Ibrahim Yuksel 3816-3825

Thermal performance of parabolic concentrators under Malaysian environment: A case study

Y. Rafeeu, M.Z.A. Ab Kadir 3826-3835

Why does renewable energy diffuse so slowly? A review of innovation system problems

Simona O. Negro, Floortje Alkemade, Marko P. Hekkert 3836-3846

A review of urban energy system models: Approaches, challenges and opportunities

James Keirstead, Mark Jennings, Aruna Sivakumar 3847-3866

Review of technology in small-scale biomass combustion systems in the European market

J.L. Míguez, J.C. Morán, E. Granada, J. Porteiro 3867-3875

Review of international grid codes for wind power integration: Diversity, technology and a case for global standard

Mansour Mohseni, Syed M. Islam 3876-3890

FRONT

A review of concentrating solar power plants in the world and their potential use in Serbia

Tomislav M. Pavlović, Ivana S. Radonjić, Dragana D. Milosavljević, Lana S. Pantić 3891-3902

International competitiveness of China's wind turbine manufacturing industry and implications for future development

Sufang Zhang 3903-3909

Sustainability policy of construction contractors: A review

Jian Zuo, George Zillante, Lou Wilson, Kathryn Davidson, Stephen Pullen 3910-3916

Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids – A review

M. Chandrasekar, S. Suresh, T. Senthilkumar 3917-3938

Policy measures to overcome barriers to energy renovation of existing buildings

Cheonghoon Baek, Sanghoon Park 3939-3947

Sustainability and future alternatives of biogas-linked agrosystem (BLAS) in China: An emergy synthesis

Shaoqing Chen, Bin Chen 3948-3959

Electricity demand supply analysis: Current status and future prospects for Maharashtra, India

Rajesh V. Kale, Sanjay D. Pohekar 3960-3966

Improving households' access to electricity and energy consumption pattern in Nigeria: Renewable energy alternative

Musiliu O. Oseni 3967-3974

A state of art review on the performance of transpired solar collector

Ashish Shukla, Dan Nchelatebe Nkwetta, Y.J. Cho, Vicki Stevenson, Phil Jones 3975-3985

Implementation conditions for energy saving technologies and practices in office buildings: Part 2. Double glazing windows, heating and air-conditioning

Konstantinos P. Tsagarakis, Konstantinos Karyotakis, Nikolaos Zografakis 3986-3998

Land availability of Jatropha production in Malaysia

M.A. Kalam, J.U. Ahamed, H.H. Masjuki 3999-4007

An overview of reliability models and methods for distribution systems with renewable energy distributed generation

Carmen Lucia Tancredo Borges 4008-4015

RETRACTED: Waste energy recovery in sea water reverse osmosis desalination plants, Part-2: case study

A.M.K. El-Ghonemy 4016-4028

A review on fuel economy test procedure for automobiles: Implementation possibilities in Malaysia and lessons for other countries

T.M.I. Mahlia, S. Tohno, T. Tezuka 4029-4046

A review on existing and future energy sources for electrical power generation in Malaysia

Rosnazri Ali, Ismail Daut, Soib Taib 4047-4055

State of the art of biofuels from pure plant oil

D. Russo, M. Dassisti, V. Lawlor, A.G. Olabi 4056-4070

Thermal comfort in hospitals – A literature review

Jamal Khodakarami, Nazanin Nasrollahi 4071-4077

Energy efficiency and low carbon enabler green IT framework for data centers considering green metrics

Mueen Uddin, Azizah Abdul Rahman 4078-4094

Energy behaviours as promoters of energy efficiency: A 21st century review

M.A.R. Lopes, C.H. Antunes, N. Martins 4095-4104

Discursive shifts in energy from biomass: A 30 year European overview

Arjan F. Kirkels 4105-4115

FRONT

Economic analysis of heating and cooling systems from the various perspectives: Application to EHP and GHP in Korea

Woo-Nam Lee, Hyeong-Jung Kim, Jong-Bae Park, K Cho, Jae Hyung Roh, Sung-Yong Son 4116-4125

Future perspectives on sustainable tribology

I. Tzanakis, M. Hadfield, B. Thomas, S.M. Noya, I. Henshaw, S. Austen 4126-4140

Assessment of utility energy storage options for increased renewable energy penetration

Annette Evans, Vladimir Strezov, Tim J. Evans 4141-4147

Experimental comparison of impact of auction format on carbon allowance market

Rong-Gang Cong, Yi-Ming Wei 4148-4156

Agriculture's contribution to the renewable energy sector: Policy and economics – Do they add up?

J.N. Mosher, K.W. Corscadden 4157-4164

Implementation conditions for energy saving technologies and practices in office buildings: Part 1. Lighting

Nikolaos Zografakis, Konstantinos Karyotakis, Konstantinos P. Tsagarakis 4165-4174

A technical, economical and market review of organic Rankine cycles for the conversion of low-grade heat for power generation

Fredy Vélez, José J. Segovia, M. Carmen Martín, Gregorio Antolín, F Chejne, Ana Quijano 4175-4189

Biomass potential in Andalusia, from grapevines, olives, fruit trees and poplar, providing heating in homes

J.M. Rosúa, M. Pasadas 4190-4195

A model for biodiesel supply chain: A case study in Iran

Akram Avami 4196-4203

Increasing the sustainability of household cooking in developing countries: Policy implications

Wouter H. Maes, Bruno Verbist 4204-4221

Potential contribution of geothermal energy to climate change adaptation: A case study of the arid and semi-arid eastern Baringo lowlands, Kenya

Pacifica F. Achieng Ogola, Brynhildur Davidsdottir, Ingvar Birgir Fridleifsson 4222-4246

Design for sustainability: The role of CAD

Sudhir Rama Murthy, Monto Mani 4247-4256

Influencing factors of water electrolysis electrical efficiency

S.K. Mazloomi, Nasri Sulaiman 4257-4263

Solar attenuation by aerosols: An overview

Yousef A. Eltbaakh, M.H. Ruslan, M.A. Alghoul, M.Y. Othman, K. Sopian, T.M. Razykov 4264-4276

EUBIONET III—Solutions to biomass trade and market barriers

E. Alakangas, M. Junginger, J. van Dam, J. Hinge, J. Keränen, O. Olsson, C. Porsö, A. Martikainen, J. Rathbauer, L. Sulzbacher, P. Vesterinen, J. Vinterbäck 4277-4290

Developing a framework for renewable technology portfolio selection: A case study at a R&D center

Hamid Davoudpour, Sara Rezaee, Maryam Ashrafi 4291-4297

A review on renewable energy conceptual perspectives in North Africa using a polynomial optimization scheme

K. Boubaker 4298-4302

A review of the applications of heat pipe heat exchangers for heat recovery

W. Srimuang, P. Amatachaya 4303-4315

Conversion of microalgae to biofuel

Emma Suali, Rosalam Sarbatly 4316-4342

Energy policy tools for agricultural residues utilization for heat and power generation: A case study of sugarcane trash in Thailand

Tritib Suramaythangkoor, Zhengguo Li 4343-4351

FRONT

A synthesis of numerical methods for modeling wave energy converter-point absorbers

Ye Li, Yi-Hsiang Yu 4352-4364

Volume 16, Issue 7, 2012

The impact of energy consumption and CO_2 emission on the economic and financial development in 19 selected countries

Usama Al-mulali, Che Normee Binti Che Sab 4365-4369

The research on performance management for new energy project oriented company based on information system in China

Yunna Wu, Wei Luo, Qing Bian 4370-4378

Liquid biofuels potential and outlook in Iran

Barat Ghobadian 4379-4384

State-of-the-art in the industrial implementation of protective relay functions, communication mechanism and synchronized phasor capabilities for electric power systems protection

Rujiroj Leelaruji, Luigi Vanfretti 4385-4395

Status of biodiesel research and development in Pakistan

Mohammed Harun Chakrabarti, Mehmood Ali, Jafar Nazir Usmani, Nasim Ahmed Khan, Diya'uddeen Basheer Hasan, Md. Sakinul Islam, Abdul Aziz Abdul Raman, Rozita Yusoff, Muhammad Faisal Irfan 4396-4405

Bio-oil production and upgrading research: A review

Shuangning Xiu, Abolghasem Shahbazi 4406-4414

Linseed oil as a potential resource for bio-diesel: A review

Savita Dixit, Sangeeta kanakraj, A. Rehman 4415-4421

Renewable energy use in Lebanon: Barriers and solutions

E. Kinab, M. Elkhoury 4422-4431

Fiscal instruments for sustainable maintenance of apartment housing in Korea

SangHoon Park, CheongHoon Baek 4432-4444

A review on the renewable energy development in Algeria: Current perspective, energy scenario and sustainability issues

A. Boudghene Stambouli, Z. Khiat, S. Flazi, Y. Kitamura 4445-4460

A goal programming model for the optimal mix and location of renewable energy plants in the north of Spain

José Ramón San Cristóbal 4461-4464

Environmental efficiency evaluation based on data envelopment analysis: A review

Malin Song, Qingxian An, Wei Zhang, Zeya Wang, Jie Wu 4465-4469

Wind power utilization for water pumping using small wind turbines in Saudi Arabia: A techno-economical review

Shafiqur Rehman, Ahmet Z. Sahin 4470-4478

Analysis of Jordan's industrial energy intensity and potential mitigations of energy and GHGs emissions

A. Al-Ghandoor 4479-4490

Electricity intensities of the OECD and South Africa: A comparison

R. Inglesi-Lotz, J.N. Blignaut 4491-4499

Application of photovoltaic array for pumping water as an alternative to diesel engines in Jordan Badia, Tall Hassan station: Case study

Mohammad Al-Smairan 4500-4507

FRONT

Constraints on the effective utilization of wind power in China: An illustration from the northeast China grid

Xiaoli Zhao, Sufang Zhang, Rui Yang, Mei Wang 4508-4514

An analysis of energy use and relation between energy inputs and yield in tangerine production

Ahmad Mohammadshirazi, Asadolah Akram, Shahin Rafiee, Seyyed Hashem Mousavi Avval, Elnaz Bagheri Kalhor 4515-4521

An overview of hydraulic systems in wave energy application in China

Dahai Zhang, Wei Li, Yonggang Lin, Jingwei Bao 4522-4526

Energy savings in the combustion based process heating in industrial sector

M. Hasanuzzaman, N.A. Rahim, M. Hosenuzzaman, R. Saidur, I.M. Mahbubul, M.M. Rashid 4527-4536

Will the aggregation approach affect energy efficiency performance assessment?

Hua Liao, Yi-Ming Wei 4537-4542

Electricity transmission tariffs for large-scale wind power consumption in western Gansu province, China

Y.X. He, M.Z. Zhu, W. Xiong, T. Zhang, X.L. Ge 4543-4550

Scope and opportunities of using glycerol as an energy source

Mayank Gupta, Naveen Kumar 4551-4556

Renewable energy sources in Cameroon: Potentials, benefits and enabling environment

F.H. Abanda 4557-4562

A new strategy for predicting short-term wind speed using soft computing models

Ashraf U. Haque, Paras Mandal, M.E. Kaye, Julian Meng, Liuchen Chang, Tomonobu Senjyu 4563-4573

Intensification of biodiesel production via ultrasonic-assisted process: A critical review on fundamentals and recent development

Ali Sabri Badday, Ahmad Zuhairi Abdullah, Keat Teong Lee, Muataz Sh. Khayoon 4574-4587

Anaerobic fermentation technology increases biomass energy use efficiency in crop residue utilization and biogas production

Y.H. Zheng, J.G. Wei, J. Li, S.F. Feng, Z.F. Li, G.M. Jiang, M. Lucas, G.L. Wu, T.Y. Ning 4588-4596

RETRACTED: A small-scale brackish water reverse-osmosis desalination system used in northern Saudi Arabia: A case study

A.M.K. El-Ghonemy 4597-4605

An optimization model for regional renewable energy development

Andrew Arnette, Christopher W. Zobel 4606-4615

Modeling and optimizing a sub-centralized LED lamps provision system for rural communities

George William Hong, Naoya Abe 4616-4628

Relative life cycle economic analysis of stand-alone solar PV and fossil fuel powered systems in Bangladesh with regard to load demand and market controlling factors

Apratim Roy, Md. Ashfanoor Kabir 4629-4637

Environmental life cycle assessment of lignocellulosic conversion to ethanol: A review

Aiduan Li Borrion, Marcelle C. McManus, Geoffrey P. Hammond 4638-4650

Energetic and exergetic analyses of a dual-fuel diesel engine

Yoge Jerônimo Ramos da Costa, Antonio Gilson Barbosa de Lima, Celso Rosendo Bezerra Filho, Laerte de Araujo Lima 4651-4660

Identification of stakeholders for sustainable renewable energy applications in Cameroon

E.M. Nfah, J.M. Ngundam 4661-4666

The challenges of determining the employment effects of renewable energy

Rosebud Jasmine Lambert, Patrícia Pereira Silva 4667-4674

FRONT

Performance analysis and neural modelling of a greenhouse integrated photovoltaic system

J. Pérez-Alonso, M. Pérez-García, M. Pasamontes-Romera, A.J. Callejón-Ferre 4675-4685

Review of solid/liquid desiccant in the drying applications and its regeneration methods

S. Misha, S. Mat, M.H. Ruslan, K. Sopian 4686-4707

The cost benefit analysis and potential emission reduction evaluation of applying wall insulation for buildings in Malaysia

M. Shekarchian, M. Moghavvemi, B. Rismanchi, T.M.I. Mahlia, T. Olofsson 4708-4718

A review on microwave-assisted production of biodiesel

F. Motasemi, F.N. Ani 4719-4733

Risk constrained self-scheduling of hydro/wind units for short term electricity markets considering intermittency and uncertainty

Hadi Moghimi Ghadikolaei, Abdollah Ahmadi, Jamshid Aghaei, Meysam Najafi 4734-4743

Implications of energy policy on a product system's dynamic life-cycle environmental impact: Survey and model

Jun-Ki Choi, Paul Friley, Thomas Alfstad 4744-4752

Sustainable energy: A review of gasification technologies

Emanuele Graciosa Pereira, Jadir da Silva, Jofran L. de Oliveira, Cássio S. Machado 4753-4762

Biodiesel production from renewable feedstocks: Status and opportunities

Venu Babu Borugadda, Vaibhav V. Goud 4763-4784

Mini-hydro power generation on existing irrigation projects: Case study of Indian sites

S.P. Adhau, R.M. Moharil, P.G. Adhau 4785-4795

Constructing a network of the social-economic consumption system of China using extended exergy analysis

Jing Dai, Brian Fath, Bin Chen 4796-4808

Integral analysis of rotors of a wind generator

Rafael Romão da Silva Melo, Aristeu da Silveira Neto 4809-4817

Energy requirements for water production, treatment, end use, reclamation, and disposal

A.K. Plappally, J.H. Lienhard V 4818-4848

Review and recent developments of laser ignition for internal combustion engines applications

Mohamed H. Morsy 4849-4875

Artificial neural network analysis of Moroccan solar potential

Ahmed Ouammi, Driss Zejli, Hanane Dagdougui, Rachid Benchrifa 4876-4889

Agricultural biogas plants in Poland: Investment process, economical and environmental aspects, biogas potential

Bartłomiej Igliński, R Buczkowski, A Iglińska, M. Cichosz, G. Piechota, Wojciech Kujawski 4890-4900

Sustainable campus of Claris lifesciences through green initiatives

Beena Patel, Pankaj Patel 4901-4907

A re-appraisal on intensification of biogas production

Priyanka Gupta, Raj Shekhar Singh, Ashish Sachan, Ambarish S. Vidyarthi, Asha Gupta 4908-4916

Overcoming problems in Turkey's renewable energy policy: How can EU contribute?

Selahattin Murat Sirin, Aylin Ege 4917-4926

A review on two-phase ejector as an expansion device in vapor compression refrigeration cycle

K. Sumeru, H. Nasution, F.N. Ani 4927-4937

Renewable ocean energy in the Western Indian Ocean

Linus Hammar, J Ehnberg, Alberto Mavume, Boaventura C. Cuamba, Sverker Molander 4938-4950

FRONT

Heterogeneous catalysts for production of chemicals using carbon dioxide as raw material: A review

Nurul Aini Mohamed Razali, Keat Teong Lee, Subhash Bhatia, Abdul Rahman Mohamed 4951-4964

Investigation of the fuel value and the environmental impact of selected wood samples gathered from Brunei Darussalam

M.G. Yazdani, M. Hamizan, M.N. Shukur 4965-4969

China's 2020 carbon intensity target: Consistency, implementations, and policy implications

Jiahai Yuan, Yong Hou, Ming Xu 4970-4981

Control strategies for single-phase grid integration of small-scale renewable energy sources: A review

Mohammad Monfared, Saeed Golestan 4982-4993

Power oscillation damping supported by wind power: A review

José Luis Domínguez-García, Oriol Gomis-Bellmunt, Fernando D. Bianchi, Andreas Sumper 4994-5006

Prospects of biodiesel from Jatropha in Malaysia

M. Mofijur, H.H. Masjuki, M.A. Kalam, M.A. Hazrat, A.M. Liaquat, M. Varman 5007-5020

An overview of fundamental studies and applications of phase change material slurries to secondary loop refrigeration and air conditioning systems

P. Zhang, Z.W. Ma 5021-5058

Methane emission by sectors: A comprehensive review of emission sources and mitigation methods

Rafiu O. Yusuf, Zainura Z. Noor, Ahmad H. Abba, Mohd Ariffin Abu Hassan, Mohd Fadhil Mohd Din 5059-5070

An overview of the effect of lubricant on the heat transfer performance on conventional refrigerants and natural refrigerant R-744

Chi-Chuan Wang, Armin Hafner, Cheng-Shu Kuo, Wen-Der Hsieh 5071-5086

Energy management in horticultural applications through the closed greenhouse concept, state of the art

Amir Vadiee, Viktoria Martin 5087-5100

A review on operating parameters for optimum liquid oil yield in biomass pyrolysis

Javaid Akhtar, NorAishah Saidina Amin 5101-5109

Financial appraisal of operational offshore wind energy projects

Tyson Weaver 5110-5120

The potential of solar heat for industrial processes in Germany

C. Lauterbach, B. Schmitt, U. Jordan, K. Vajen 5121-5130

A review on conventional technologies and emerging process intensification (PI) methods for biodiesel production

Pin Pin Oh, Harrison Lik Nang Lau, Junghui Chen, Mei Fong Chong, Yuen May Choo 5131-5145

Optimal planning of distributed generation systems in distribution system: A review

Rajkumar Viral, D.K. Khatod 5146-5165

Analysis of renewable energy progress in the western Balkan countries: Bosnia–Herzegovina and Serbia

Charikleia Karakosta, Maria Flouri, Stamatia Dimopoulou, John Psarras 5166-5175

MODERGIS application: Integrated simulation platform to promote and develop renewable sustainable energy plans, Colombian case study

R. Quijano H, S. Botero B, J. Domínguez B 5176-5187

Changing Sunshine: Analyzing the dynamics of solar electricity policies in the global context

Ranjit Deshmukh, Ranjit Bharvirkar, Ashwin Gambhir, Amol Phadke 5188-5198

Renewable energy sources in Turkey for climate change mitigation and energy sustainability

S. Keleş, S. Bilgen 5199-5206

FRONT

Thermochemical energy storage and conversion: A-state-of-the-art review of the experimental research under practical conditions

Jaume Cot-Gores, Albert Castell, Luisa F. Cabeza 5207-5224

Waste cooking oil as an energy resource: Review of Chinese policies

Huiming Zhang, Qunwei Wang, Simon R. Mortimer 5225-5231

Solar photovoltaic in Malaysia: The way forward

Firdaus Muhammad-Sukki, Abu Bakar Munir, Roberto Ramirez-Iniguez, Siti Hawa Abu-Bakar, Siti Hajar Mohd Yasin, Scott G. McMeekin, Brian G. Stewart 5232-5244

Estimation of the energetic and environmental impacts of a roof-mounted photovoltaic systems

Federica Cucchiella, Idiano D'Adamo 5245-5259

Potential of the renewable energy development in Jammu and Kashmir, India

Arsalan Nisar, Carlos Rodríguez Monroy 5260-5267

Conceptualizing the acceptance of wind and solar electricity

Benjamin K. Sovacool, Pushkala Lakshmi Ratan 5268-5279

Global warming mitigation and renewable energy policy development from the Kyoto Protocol to the Copenhagen Accord—A comment

Lee Chung Lau, Keat Teong Lee, Abdul Rahman Mohamed 5280-5284

Analysis of energy use and CO_2 emission in service industries: Evidence from Sweden

Clara Inés Pardo Martínez, Semida Silveira 5285-5294

LCA of second generation bioethanol: A review and some issues to be resolved for good LCA practice

Edi Iswanto Wiloso, Reinout Heijungs, Geert R. de Snoo 5295-5308

A review of research on the Kalina cycle

Xinxin Zhang, Maogang He, Ying Zhang 5309-5318

Insights into biofuel development in Burkina Faso: Potential and strategies for sustainable energy policies

Parfait Tatsidjodoung, Marie-Hélène Dabat, Joël Blin 5319-5330

A review on solar cold production through absorption technology

H.Z. Hassan, A.A. Mohamad 5331-5348

The impact of biomass consumption on CO_2 emissions: Cointegration analyses with regime shifts

Faik Bilgili 5349-5354

Modeling of phase change materials for applications in whole building simulation

Parham A. Mirzaei, Fariborz Haghighat 5355-5362

A review on natural convective heat transfer of nanofluids

Zoubida Haddad, Hakan F. Oztop, Eiyad Abu-Nada, Amina Mataoui 5363-5378

Evaluating and comparing three community small-scale wind electrification projects

Laia Ferrer-Martí, Anna Garwood, J Chiroque, B Ramirez, Marianna Garfí, Enrique Velo 5379-5390

Assessment of wood fuel use for energy generation in Lithuania

Eugenijus Perednis, Vladislovas Katinas, Antanas Markevičius 5391-5398

Renewable energy sector in Belarus: A review

Laurencas Raslavičius 5399-5413

Biofuels and their potential to aid the UK towards achieving emissions reduction policy targets

Adolf A. Acquaye, T Sherwen, A Genovese, J Kuylenstierna, SC Koh, S McQueen-Mason 5414-5422

Green waste to biogas: Renewable energy possibilities for Thailand's green markets

Ghaffar Ali, Vilas Nitivattananon, Sawaid Abbas, Muazzam Sabir 5423-5429

FRONT

Sustainable energy future via grid interactive operation of spv system at isolated remote island
Aurobi Das, V. Balakrishnan 5430-5442
Parameters influencing the design of photobioreactor for the growth of microalgae
K.K. Vasumathi, M. Premalatha, P. Subramanian 5443-5450

Volume 16, Issue 8, 2012

Renewable energy supply chains, performance, application barriers, and strategies for further development
Hui-Ming Wee, Wen-Hsiung Yang, Chao-Wu Chou, Marivic V. Padilan 5451-5465
Modeling and investigation of the wind resource in the gulf of Tunis, Tunisia
Souheil El Alimi, Taher Maatallah, Anouar Wajdi Dahmouni, Sassi Ben Nasrallah 5466-5478
Performance of diesel engine using biodiesel obtained from mixed feedstocks
Dilip Kumar Bora, D.C. Baruah, L.M. Das, M.K.G. Babu 5479-5484
Optimization of wind turbine micrositing: A comparative study
Samina Rajper, Imran J. Amin 5485-5492
A literature-based multi-criteria evaluation of the EU ETS
Frank Venmans 5493-5510
An overview of hydrogen as a vehicle fuel
H. Fayaz, R. Saidur, N. Razali, F.S. Anuar, A.R. Saleman, M.R. Islam 5511-5528
A simplified method for estimating direct normal solar irradiation from global horizontal irradiation useful for CPV applications
P.J. Pérez-Higueras, P. Rodrigo, E.F. Fernández, F. Almonacid, L. Hontoria 5529-5534
Temporal change analysis of public attitude, knowledge and acceptance of hydrogen vehicles in Greater Stavanger, 2006–2009
Ari K.M. Tarigan, Stian B. Bayer 5535-5544
A literature review on integration of distributed energy resources in the perspective of control, protection and stability of microgrid
Prasenjit Basak, S. Chowdhury, S. Halder nee Dey, S.P. Chowdhury 5545-5556
Support for solar PV deployment in Spain: Some policy lessons
Pablo del Río, Pere Mir-Artigues 5557-5566
Numerical analysis on the influence of ambient crosswind on the performance of solar updraft power plant system
Tingzhen Ming, Xinjiang Wang, Renaud Kiesgen de Richter, Wei Liu, Tianhua Wu, Yuan Pan 5567-5583
The effect of temperature on various parameters in coal, biomass and CO-gasification: A review
Leila Emami Taba, Muhammad Faisal Irfan, Wan Ashri Mohd Wan Daud, Mohammed Harun Chakrabarti 5584-5596
Perspective of the preparation of agrichars using fossil hydrocarbon coke
Jorge Laine 5597-5602
A review on effect of phase change material encapsulation on the thermal performance of a system
Pramod B. Salunkhe, Prashant S. Shembekar 5603-5616
Household biogas development in rural China: On policy support and other macro sustainable conditions
Yongzhong Feng, Yan Guo, Gaihe Yang, Xiaowei Qin, Zilin Song 5617-5624
Application of nanofluids in heat exchangers: A review
Gabriela Huminic, Angel Huminic 5625-5638

FRONT

A review of thermodynamics and heat transfer in solar refrigeration system

O. Afshar, R. Saidur, M. Hasanuzzaman, M. 5639-5648

Technologies to recover exhaust heat from internal combustion engines

R. Saidur, M. Rezaei, W.K. Muzammil, M.H. Hassan, S. Paria, M. Hasanuzzaman 5649-5659

Managing electric power system transition in China

Jiahai Yuan, Yan Xu, Zhen Hu, Zhongfu Yu, Jiangyan Liu, Zhaoguang Hu, Ming Xu 5660-5677

A feasibility study of grid-connected photovoltaic systems in Istanbul, Turkey

Alp Batman, F. Gul Bagriyanik, Z. Elif Aygen, Ömer Gül, Mustafa Bagriyanik 5678-5686

Assessing the economic value of renewable distributed generation in the Northeastern American market

Mourad Ben Amor, Pierre-Olivier Pineau, Caroline Gaudreault, Réjean Samson 5687-5695

Geothermal energy potentials in the province of Vojvodina from the aspect of the direct energy utilization

Branka Nakomcic-Smaragdakis, Tijana Stajic, Zoran Cepic, Slavko Djuric 5696-5706

Tidal current turbines glance at the past and look into future prospects in Malaysia

Haydar Faez Hassan, Ahmed El-Shafie, Othman A. Karim 5707-5717

Econometric perspective of the energy consumption and economic growth relation in European Union

Corina Pirlogea, Claudiu Cicea 5718-5726

Domestic solar water heating system in Oman: Current status and future prospects

A.H. Al-Badi, M.H. Albadi 5727-5731

Necessity of biodiesel utilization as a source of renewable energy in Malaysia

Seyed Ehsan Hosseini, Mazlan Abdul Wahid 5732-5740

Energy, exergy and environmental analysis of cold thermal energy storage (CTES) systems

B. Rismanchi, R. Saidur, G. BoroumandJazi, S. Ahmed 5741-5746

Dynamic output-feedback wide area damping control of HVDC transmission considering signal time-varying delay for stability enhancement of interconnected power systems

Yong Li, Fang Liu, Christian Rehtanz, Longfu Luo, Yijia Cao

The vulnerability of hydroelectric generation in the Northeast of Brazil: The environmental and business risks for CHESF

Eurídice M. Andrade, José Paulo Cosenza, Luiz Pinguelli Rosa, Gleide Lacerda 5760-5769

An overview of ionic liquids as solvents in biodiesel synthesis

Ahmad Hafiidz Mohammad Fauzi, Nor Aishah Saidina Amin

Hybrid adsorption cooling systems–An overview

Ahmed A. Askalany, Bidyut B. Saha, Keishi Kariya, Ibrahim M. Ismail, Mahmoud Salem, Ahmed H.H. Ali, Mahmoud G. Morsy 5787-5801

Review of thermal energy storage for air conditioning systems

Abduljalil A. Al-Abidi, Sohif Bin Mat, K. Sopian, M.Y. Sulaiman, C.H. Lim, Abdulrahman Th 5802-5819

Decentralised carbon footprint analysis for opting climate change mitigation strategies in India

T.V. Ramachandra, Shwetmala 5820-5833

A review on the role of materials science in solar cells

Nilofar Asim, Kamaruzzaman Sopian, Shideh Ahmadi, Kasra Saeedfar, M.A. Alghoul, Omidreza Saadatian, Saleem H. Zaidi 5834-5847

Review on dye-sensitized solar cells (DSSCs): Fundamental concepts and novel materials

Jiawei Gong, Jing Liang, K. Sumathy 5848-5860

Research and development aspects of pico-hydro power

Nowshad Amin, Nilofar Asim, M.I. Fadhel 5861-5878

FRONT

A review on electricity generation based on biomass residue in Malaysia
S.M. Shafie, T.M.I. Mahlia, H.H. Masjuki, A. Ahmad-Yazid 5879-5889

Non-uniform illumination in concentrating solar cells
Hasan Baig, Keith C. Heasman, Tapas K. Mallick 5890-5909

A review on bio-oil production from biomass by using pyrolysis method
Wan Nor Roslam Wan Isahak, M W.M. Hisham, Mohd Ambar Yarmo, Taufiq-yap Yun Hin 5910-5923

An overview of biodiesel oxidation stability
James Pullen, Khizer Saeed

An overview on heat transfer augmentation using vortex generators and nanofluids: Approaches and applications
H.E. Ahmed, H.A. Mohammed, M.Z. Yusoff 5951-5993

Assessing the life cycle impacts of wind power: A review of present knowledge and research needs
Anders Arvesen, Edgar G. Hertwich 5994-6006

Status and future prospects of renewable energy in Iraq
Hussein A. Kazem, Miqdam T. Chaichan 6007-6012

Promotion of biofuel consumption in the transport sector: An EU-27 perspective
J.M. Cansino, M.del P Pablo-Romero, R. Román, R. Yñiguez 6013-6021

Biofuel production: Prospects, challenges and feedstock in Australia
Munish Puri, Reinu E. Abraham, Colin J. Barrow 6022-6031

Economic analysis of greenhouse gas emissions in the Spanish economy
J.M. Cansino, M.A. Cardenete, M. Ordóñez, R. Román 6032-6039

How to improve the economy of bioethanol production in Serbia
Ljiljana Mojović, Dušanka Pejin, M Rakin, Jelena Pejin, Svetlana Nikolić, A Djukić-Vuković 6040-6047

Review on analysis of biodiesel with infrared spectroscopy
Wei-Bo Zhang 6048-6058

Integrated hydrogen production options based on renewable and nuclear energy sources
Mehmet F. Orhan, Ibrahim Dincer, Marc A. Rosen, Mehmet Kanoglu 6059-6082

Performance of simulated flexible integrated gasification polygeneration facilities, Part B: Economic evaluation.
J.C. Meerman, A. Ramírez, W.C. Turkenburg, A.P.C. Faaij 6083-6102

Thailand's energy security indicators
Jutamanee Martchamadol, S. Kumar 6103-6122

Coal consumption and industrial production nexus in USA: Cointegration with two unknown structural breaks and causality approaches
Ertugrul Yildirim, Alper Aslan, Ilhan Ozturk 6123-6127

Energy and fuel consumption forecast by retrofitting absorption cooling in Malaysia from 2012 to 2025
M. Shekarchian, M. Moghavvemi, F. Motasemi, F. Zarifi, T.M.I. Mahlia 6128-6141

Micro-watershed level population based fuelwood consumption dynamics: Implications of seasonal vs. annual models for sustainable energy resource planning
Y.S.C. Khuman, Ranjita Pandey, K.S. Rao 6142-6148

General models for optimum tilt angles of solar panels: Turkey case study
Kadir Bakirci 6149-6159

Hydropower for sustainable energy development in Turkey: The small hydropower case of the Eastern Black Sea Region
Mehmet Capik, Ali Osman Yılmaz, İbrahim Cavusoglu 6160-6172

FRONT

China's wind, biomass and solar power generation: What the situation tells us?

Zhao Xingang, Wang Jieyu, Liu Xiaomeng, Liu Pingkuo 6173-6182

Determination of the optimum hybrid renewable power generating systems for Kavakli campus of Kirklareli University, Turkey

Bahtiyar Dursun 6183-6190

Building integrated energy storage opportunities in China

C. Li, R.Z. Wang 6191-6211

The status, predicament and countermeasures of biomass secondary energy production in China

Lihong Chen, Xiaobing Li, Wanyu Wen, Jingdun Jia, Guoqing Li, Fei Deng 6212-6219

Emerging energy-efficiency and CO_2 emission-reduction technologies for cement and concrete production: A technical review

Ali Hasanbeigi, Lynn Price, Elina Lin 6220-6238

Assessment of retrofitting measures and solar systems' potential in urban areas using Geographical Information Systems: Application to a Mediterranean city

Ifigeneia Theodoridou, M Karteris, G Mallinis, Agis M. Papadopoulos, Manfred Hegger 6239-6261

Exergy evaluation of packed bed solar air heater

Mukesh Kumar Lalji, R.M. Sarviya, J.L. Bhagoria 6262-6267

Review of offshore energy in Malaysia and floating Spar platform for sustainable exploration

A.B.M. Saiful Islam, Mohammed Jameel, Mohd Zamin Jumaat, S.M. Shirazi, Firas A. Salman 6268-6284

Issues concerning atmospheric turbidity indices

Yousef A. Eltbaakh, M.H. Ruslan, M.A. Alghoul, M.Y. Othman, K. Sopian 6285-6294

Universal drying rate constant of seedless grapes: A review

S.P. Singh, K.S. Jairaj, K. Srikant 6295-6302

Activity of homogeneous and heterogeneous catalysts, spectroscopic and chromatographic characterization of biodiesel: A review

Muhammad Tariq, Saqib Ali, Nasir Khalid 6303-6316

India's solar mission: A review

Gireesh Shrimali, Sunali Rohra 6317-6332

Comparative studies on Performance evaluation of a two stroke copper coated spark ignition engine with alcohols with catalytic converter

M.V.S. Murali Krishna, K. Kishor, P.V.K. Murthy, A.V.S.S.K.S. Gupta, S. Narasimha Kumar 6333-6339

Trombe walls: A review of opportunities and challenges in research and development

Omidreza Saadatian, K. Sopian, C.H. Lim, Nilofar Asim, M.Y. Sulaiman 6340-6351

Solar thermal air conditioning technology reducing the footprint of solar thermal air conditioning

Naci Kalkan, E.A. Young, Ahmet Celiktas 6352-6383

RETRACTED: Fresh water production from/by atmospheric air for arid regions, using solar energy: Review

A.M.K. El-Ghonemy 6384-6422

Analysis of solar desiccant cooling system for an institutional building in subtropical Queensland, Australia

Ali M. Baniyounes, Gang Liu, M.G. Rasul, M.M.K. Khan 6423-6431

Further evidence of impacts of large-scale wind farms on land surface temperature

Jenell M. Walsh-Thomas, Guido Cervone, Peggy Agouris, Germana Manca 6432-6437

Thermodynamics and exergoeconomic analysis of geothermal power plants

Deniz Yildirim, Leyla Ozgener 6438-6454

Medium-temperature conversion of biomass and wastes into liquid products, a review

Eugenia Sannita, Bahar Aliakbarian, Alessandro A. Casazza, Patrizia Perego, Guido Busca 6455-6475

FRONT

An analysis of wind power density derived from several wind speed density functions: The regional assessment on wind power in Malaysia

N. Masseran, A.M. Razali, K. Ibrahim 6476-6487

Retraction notice to "Solar chimney power generation project—The case for Botswana" [Renewable Sustainable Energy Rev. 12 (2008) 2005–2012]

Clever Ketlogetswe, Jerzy K. Fiszdon, Omphemetse O. Seabe 6488

Volume 16, Issue 9, 2012

The fuelwood consumption in a rural area of Greece

Garyfallos Arabatzis, Kyriaki Kitikidou, Stilianos Tampakis, Konstantinos Soutsas 6489-6496

Energy autonomy in sustainable communities—A review of key issues

Callum Rae, Fiona Bradley 6497-6506

Negative carbon intensity of renewable energy technologies involving biomass or carbon dioxide as inputs

Wojciech M. Budzianowski 6507-6521

Vapor compression multifunctional heat pumps in China: A review of configurations and operational modes

Qin Wang, Wei He, Yuqian Liu, Guofeng Liang, Jiarong Li, Xiaohong Han, Guangming Chen 6522-6538

A review and an analysis of the residential electric load curve models

A. Grandjean, J. Adnot, G. Binet 6539-6565

RETRACTED: Future sustainable water desalination technologies for the Saudi Arabia: A review

A.M.K. El-Ghonemy 6566-6597

Harmonising bioenergy resource potentials—Methodological lessons from review of state of the art bioenergy potential assessments

B. Batidzirai, E.M.W. Smeets, A.P.C. Faaij 6598-6630

A review on wind energy and wind–hydrogen production in Turkey: A case study of hydrogen production via electrolysis system supplied by wind energy conversion system in Central Anatolian Turkey

Mustafa Serdar Genç, Muhammet Çelik, İlyas Karasu 6631-6646

Ejector enhanced vapor compression refrigeration and heat pump systems—A review

Jahar Sarkar 6647-6659

An analysis of wind power potential in Port Said, Egypt

Aref Lashin, Ahmed Shata 6660-6667

Status and potentials of tidal in-stream energy resources in the southern coasts of Iran: A case study

Ali Rashid 6668-6677

Power, placement and LEC evaluation to install CSP plants in northern Chile

Nicolás Corral, Nicolás Anrique, Dalila Fernandes, Cristóbal Parrado, Gustavo Cáceres *6678-6685*

Regional differentiation of biogas industrial development in China

Yanli Yang, Peidong Zhang, Guangquan Li 6686-6693

Renewable energy for rural areas of Bolivia

Mario Pansera 6694-6704

Development of an integrated methodology for the energy needs of a major urban city: The case study of Athens, Greece

G. Xydis 6705-6716

Fuel additives from glycerol etherification with light olefins: State of the art

J.F. Izquierdo, M. Montiel, I. Palés, P.R. Outón, M. Galán, L. Jutglar, M. Villarrubia, M. Izquierdo, M.P. Hermo, X. Ariza 6717-6724

FRONT

A review and new approach to minimize the cost of solar assisted absorption cooling system

V. Boopathi Raja, V. Shanmugam 6725-6731

Performance analysis of water cooled concentrated photovoltaic (CPV) system

Bin Du, Eric Hu, Mohan Kolhe 6732-6736

An investigation of the cost and performance of a solar-powered LED light designed as an alternative to candles in Zambia: A project case study

Kurt Kornbluth, Bryan Pon, Paul Erickson 6737-6745

Promoting global CCS RDD&D by stronger U.S.–China collaboration

Jia-Hai Yuan, Thomas P. Lyon 6746-6769

Energy consumption and economic growth in the USA: Evidence from renewable energy

Ertuğrul Yildirim, Şenay Saraç, Alper Aslan 6770-6774

Linear and nonlinear TAR panel unit root analyses for solid biomass energy supply of European countries

Faik Bilgili 6775-6781

An overview of hydrogen gas production from solar energy

Simon Koumi Ngoh, Donatien Njomo 6782-6792

The economics of visual disamenity reductions of offshore wind farms—Review and suggestions from an emerging field

Jacob Ladenburg, Sanja Lutzeyer 6793-6802

Flywheel energy storage systems: Review and simulation for an isolated wind power system

R. Sebastián, R. Peña Alzola 6803-6813

Ground source heat pump system: A review of simulation in China

Yanping Yuan, Xiaoling Cao, Liangliang Sun, Bo Lei, Nanyang Yu 6814-6822

Indirect evaporative cooling: Past, present and future potentials

Zhiyin Duan, Changhong Zhan, Xingxing Zhang, Mahmud Mustafa, Xudong Zhao, Behrang Alimohammadisagvand, Ala Hasan 6823-6850

Sustainability at home: Policy measures for energy-efficient appliances

Geoff Kelly 6851-6860

Building performance evaluation and certification in the UK: Is SAP fit for purpose?

Scott Kelly, Doug Crawford-Brown, Michael G. Pollitt 6861-6878

Study on electrical energy and prospective electricity generation from renewable sources in Australia

Shaheen Hasan Chowdhury, Amanullah Maung Than Oo 6879-6887

FRONT

RENEWABLE ENERGY

Volume 37, 2012

Current methods and advances in forecasting of wind power generation

Aoife M. Foley, Paul G. Leahy, Antonino Marvuglia, Eamon J. McKeogh 1-8

Taxation of automobile fuels in Brazil: Does ethanol need tax incentives to be competitive and if so, to what extent can they be justified by the balance of GHG emissions?

Marcelo Cavalcanti, Alexandre Szklo, Giovani Machado, Maurício Arouca 9-18

Bioethanol production from agricultural wastes: An overview

Nibedita Sarkar, Sumanta Kumar Ghosh, Satarupa Bannerjee, Kaustav Aikat 19-27

An experimental investigation simulating flow effects in first generation marine current energy converter arrays

L.E. Myers, A.S. Bahaj 28-36

Life cycle assessment of two different 2 MW class wind turbines

Begoña Guezuraga, Rudolf Zauner, Werner Pölz 37-44

CO_2 savings affect the break-even distance of feedstock supply and digestate placement in biogas production

Simone Capponi, Simone Fazio, Lorenzo Barbanti 45-52

Assessment of the biomass power generation industry in China

Zhen-yu Zhao, Hong Yan 53-60

How motion trajectory affects energy extraction performance of a biomimic energy generator with an oscillating foil?

Qing Xiao, Wei Liao, Shuchi Yang, Yan Peng 61-75

An integrated solar-cryogen hybrid power system

Yongliang Li, Xiang Wang, Yi Jin, Yulong Ding 76-81

Photovoltaic applications for off-grid electrification using novel multi-level inverter technology with energy storage

Kapila Bandara, Tracy Sweet, Janaka Ekanayake 82-88

A field study on building inertia and its effects on indoor thermal environment

José A. Orosa, Armando C. Oliveira 89-96

Theoretical and experimental investigations of a downdraft biomass gasifier-spark ignition engine power system

Felipe Centeno, Khamid Mahkamov, Electo E. Silva Lora, Rubenildo V. Andrade 97-108

Short duration microwave assisted pretreatment enhances the enzymatic saccharification and fermentable sugar yield from sugarcane bagasse

Parameswaran Binod, Karri Satyanagalakshmi, Raveendran Sindhu, Kanakambaran Usha Janu, Rajeev K. Sukumaran, Ashok Pandey 109-116

Experimental investigation on the heat and mass transfer between air and liquid desiccant in a cross-flow dehumidifier

W.Z. Gao, J.H. Liu, Y.P. Cheng, X.L. Zhang 117-123

A 2020 GB transmission network study using dispersed wind farm power output

Annelies Gerber, Meysam Qadrdan, Modassar Chaudry, Janaka Ekanayake, Nick Jenkins 124-132

FRONT

Comparative life cycle energy, emission, and economic analysis of 100 kW nameplate wind power generation
Md Ruhul Kabir, Braden Rooke, G.D. Malinga Dassanayake, Brian A. Fleck 133-141

A study on incorporation of thermoelectric modules with evacuated-tube heat-pipe solar collectors
Wei He, Yuehong Su, Y.Q. Wang, S.B. Riffat, Jie Ji 142-149

Nested ensemble NWP approach for wind energy assessment
Sultan Al-Yahyai, Yassine Charabi, Abdullah Al-Badi, Adel Gastli 150-160

Combining dynamic and thermodynamic models for dynamic simulation of a beta-type Stirling engine with rhombic-drive mechanism
Chin-Hsiang Cheng, Ying-Ju Yu 161-173

Thermophilic fermentative hydrogen production from xylose by Thermotoga neapolitana DSM 4359
Tien Anh Ngo, Tra Huong Nguyen, Ha Thi Viet Bui 174-179

A multiobjective approach for reactive power planning in networks with wind power generation
Monica Alonso, Hortensia Amaris, Carlos Alvarez-Ortega 180-191

High efficient conversion of cellulose to polyols with Ru/CNTs as catalyst
Hongjuan Wang, Lili Zhu, Song Peng, Feng Peng, Hao Yu, Jian Yang 192-196

.**Improvement in ethanol production using respiratory deficient phenotype of a wild type yeast Saccharomyces cerevisiae ITV-01**
B. Ortiz-Muñiz, O. Carvajal-Zarrabal, B. Aguilar, M.G. Aguilar-Uscanga 197-201

Use of STATCOM in wind farms with fixed-speed generators for grid code compliance
Dionisio Ramirez, Sergio Martinez, Francisco Blazquez, Carmelo Carrero 202-212

Distribution feeder reconfiguration considering fuel cell/wind/photovoltaic power plants
Taher Niknam, Abdollah Kavousi Fard, Alireza Seifi 213-225

Energy performance of glazings in European climates
Heinrich Manz, Urs-Peter Menti 226-232

Gain scheduled control based on high fidelity local wind turbine models
F.D. Bianchi, R.S. Sánchez-Peña, M. Guadayol 233-240

Multi-step forecasting for wind speed using a modified EMD-based artificial neural network model
Zhenhai Guo, Weigang Zhao, Haiyan Lu, Jianzhou Wang 241-249

Solar energy conversion and storage: Rhodamine B - Fructose photogalvanic cell
Pooran Koli, Urvashi Sharma, K.M. Gangotri 250-258

Fermentation medium and oxygen transfer conditions that maximize the xylose conversion to ethanol by Pichia stipitis
João Paulo A. Silva, Solange I. Mussatto, Inês C. Roberto, José A. Teixeira 259-265

Energy analysis of a solar-assisted ejector cycle air conditioning system with low temperature thermal energy storage
Bogdan M. Diaconu 266-276

Impact of uncertainties on greenhouse gas mitigation potential of biogas production from agricultural resources
Andreas Meyer-Aurich, Alexander Schattauer, Hans Jürgen Hellebrand, Hilde Klauss, Matthias Plöchl, Werner Berg 277-284

Dynamic overset CFD simulations of wind turbine aerodynamics
Wuwei Li, Kwang-Jun Paik, Tao Xing, Pablo M. Carrica 285-298

A decision support system for the optimal exploitation of wind energy on regional scale
Ahmed Ouammi, Valeria Ghigliotti, Michela Robba, Abdelaziz Mimet, Roberto Sacile 299-309

FRONT

A system dynamics approach for investigating impacts of incentive mechanisms on wind power investment
E. Alishahi, M. Parsa Moghaddam, M.K. Sheikh-El-Eslami 310-317
Wind power impacts and electricity storage – A time scale perspective
K. Hedegaard, P. Meibom 318-324
Fan selection and stack design for open-cathode polymer electrolyte fuel cell stacks
A.P. Sasmito, E. Birgersson, K.W. Lum, A.S. Mujumdar 325-332
Water injection effects on the performance and emission characteristics of a CI engine operating with biodiesel
B. Tesfa, R. Mishra, F. Gu, A.D. Ball 333-344
Vertical axis wind turbine performance enhancement using plasma actuators
David Greenblatt, Magen Schulman, Amos Ben-Harav 345-354
Design and simulation of a PV and a PV–Wind standalone energy system to power a household application
Gregoris Panayiotou, Soteris Kalogirou, Savvas Tassou 355-363
Zeotropic mixtures as working fluids in Organic Rankine Cycles for low-enthalpy geothermal resources
Florian Heberle, Markus Preißinger, Dieter Brüggemann 364-370
Corrosion behaviors of metals in biodiesel from rapeseed oil and methanol
Enzhu Hu, Yufu Xu, Xianguo Hu, Lijun Pan, Shaotong Jiang 371-378
Sustainable management model for rural electrification: Case study based on biomass solid waste considering the Brazilian regulation policy
Giorgiana Pinheiro, Gonçalo Rendeiro, João Pinho, Emanuel Macedo 379-386
Impact of tidal energy converter (TEC) arrays on the dynamics of headland sand banks
Simon P. Neill, James R. Jordan, Scott J. Couch 387-397
Gasification of biomass char with air-steam in a cyclone furnace
Pi-wen He, Si-yi Luo, Gong Cheng, Bo Xiao, Lei Cai, Jin-bo Wang 398-402
Trends in the growth of installed capacity of Small Hydro Power (SHP) in Brazil, based on Gross Domestic Product (GDP)
Geraldo Lúcio Tiago Filhoa, Regina Mambeli Barrosa, Fernando das Graças Braga da Silvaa 403-411
Storage degradation of palm-derived biodiesels: Its effects on chemical properties and engine performance
C. Pattamaprom, W. Pakdee, S. Ngamjaroen 412-418
Power control of brushless doubly-fed reluctance drive and generator systems
Hamza Chaal, Milutin Jovanovic 419-425
Development of a methodology for quantifying insolation variables in windows and building openings
J. Ramírez-Faz, R. López-Luque 426-433
Fuzzy model based multivariable predictive control of a variable speed wind turbine: LMI approach
S. Bououden, M. Chadli, S. Filali, A. El Hajjaji 434-439
On the proper analytical expression for the sky-view factor and the diffuse irradiation of a slope for an isotropic sky
Jože Rakovec, Klemen Zakšek 440-444

Volume 38, 2012

Syngas production in downdraft biomass gasifiers and its application using internal combustion engines
Juan Daniel Martínez, Khamid Mahkamov, Rubenildo V. Andrade, Electo E. Silva Lora 1-9
RETRACTED: Biodiesel production using magnetically stabilized fluidized bed reactor
Pingmei Guo, Fenghong Huang, Qingde Huang, Chang Zheng 10-15

FRONT

Unrestricted wind farm layout optimization (UWFLO): Investigating key factors influencing the maximum power generation

Souma Chowdhury, Jie Zhang, Achille Messac, Luciano Castillo 16-30

Very high fluxes for concentrating photovoltaics: Considerations from simple experiments and modeling

Alexis Vossier, Daniel Chemisana, Gilles Flamant, Alain Dollet 31-39

Outdoor airflow analysis and potential for passive cooling in the modern urban context of Dubai

Khaled A. Al-Sallal, Laila Al-Rais 40-49

Study on the wave climate variation to the renewable wave energy assessment

Tsai Ching-Piao, Hwang Ching-Her, Hwa Chien, Cheng Hao-Yuan 50-61

Comparison of the experimental evaluation of a solar intermittent refrigeration system for ice production operating with the mixtures $NH_3/LiNO_3$ and $NH_3/LiNO_3/H_2O$

G. Moreno-Quintanar, W. Rivera, R. Best 62-68

Impact of spectral irradiance distribution on the outdoor performance of photovoltaic system under Thai climatic conditions

Chattariya Sirisamphanwong, Nipon Ketjoy 69-74

Application of artificial neural networks for the spatial estimation of wind speed in a coastal region with complex topography

Kostas Philippopoulos, Despina Deligiorgi 75-82

Iterative approach for optimising coefficient of power, coefficient of lift and drag of wind turbine rotor

S. Rajakumar, D. Ravindran 83-93

Wavelet transform method for islanding detection of wind turbines

H. Kazemi Karegar, B. Sobhani 94-106

Far-field modelling of the hydro-environmental impact of tidal stream turbines

Reza Ahmadian, Roger Falconer, Bettina Bockelmann-Evans 107-116

The potential of the local administration as driving force for the implementation of the National PV systems Strategy in Romania

Flavius Iacobescu, Viorel Badescu 117-125

A technical, economic, and greenhouse gas emission analysis of a homestead-scale grid-connected and stand-alone photovoltaic and diesel systems, against electricity network extension

Mark P. McHenry 126-135

Transesterificarion of soybean oil using ethanol and mesoporous silica catalyst

Solange A. Quintella, Rosana M.A. Saboya, Davi C. Salmin, Denise S. Novaes, Antonio S. Araújo, Monica C.G. Albuquerque, Célio L. Cavalcante Jr. 136-140

Discussion on the verification of the overlap ratio influence on performance coefficients of a Savonius wind rotor using computational fluid dynamics

João Vicente Akwa, Gilmar Alves da Silva Júnior, Adriane Prisco Petry 141-149

Performance and emission characteristics of double cylinder CI engine operated with cardanol bio fuel blends

D.N. Mallikappa, Rana Pratap Reddy, Ch.S.N. Murthy 150-154

Life cycle assessment of biodiesel production from free fatty acid-rich wastes

Javier Dufour, Diego Iribarren 155-162

VIS harvesting unsymmetrical squaraine dye for dye-sensitized solar cells

Cun Fu, Ling Lei, Kang Sun, Pingfang Xia, Hongyan Yuan, Dan Xiao, Zhonghui Li 163-168

Which factors affect the willingness of tourists to pay for renewable energy?

I. Kostakis, E. Sardianou 169-172

FRONT

Method for component-based economical optimisation for use in design of new low-energy buildings
Steffen Petersen, Svend Svendsen 173-180

Effectiveness parameters for the prediction of the global performance of desiccant wheels – An assessment based on experimental data
C.R. Ruivo, J.J. Costa, A.R. Figueiredo, A. Kodama 181-187

Seasonal cooling load reduction of building by thermosyphon heat pipe radiator in different climate areas
Nammont Chotivisarut, Atipoang Nuntaphan, Tanongkiat Kiatsiriroat 188-194

Small-scale (≤6 kW_e) stand-alone and grid-connected photovoltaic, wind, hydroelectric, biodiesel, and wood gasification system's simulated technical, economic, and mitigation analyses for rural regions in Western Australia
Mark P. McHenry 195-205

Wind-induced dynamic response of Heliostat
Bo Gong, Zhengnong Li, Zhifeng Wang, Yingge Wang 206-213

Enhancing the performance of dye-sensitized solar cells by benzoic acid modified TiO_2 nanorod electrode
Jincheng Liu, Yinjie Wang, Darren Sun 214-218

Effect of annealing on photovoltaic characteristics of nanostructured p-Cu_2S/n-CdS thin film
Vidya S. Taur, Rajesh A. Joshi, Anil V. Ghule, Ramphal Sharma 219-223

Smoothing wind power fluctuations by fuzzy logic pitch angle controller
M.A. Chowdhury, N. Hosseinzadeh, W.X. Shen 224-233

Bond graph modelling of a wave energy conversion system with hydraulic power take-off
Adi Kurniawan, Eilif Pedersen, Torgeir Moan 234-244

Political aspects of innovation: Examining renewable energy in Australia
Pranoto Effendi, Jerry Courvisanos 245-252

Evaluation of the stability of hydrogen production and microbial diversity by anaerobic sludge with chloroform treatment
Yan-Yan Ning, Da-Wei Jin, Guo-Ping Sheng, Hideki Harada, Xian-Yang Shi 253-257

Feasibility study of a wind–pv–diesel hybrid power system for a village
Shafiqur Rehman, Md. Mahbub Alam, J.P. Meyer, Luai M. Al-Hadhrami 258-268

Volume 39, 2012

Renewable energy policy in Turkey with the new legal regulations
Mine Tükenmez, Erhan Demireli 1-9

Biodiesel production using enzymatic transesterification – Current state and perspectives
Adriana Gog, Marius Roman, Monica Toşa, Csaba Paizs, Florin Dan Irimie 10-16

Water development for hydroelectric in southeastern Anatolia project (GAP) in Turkey
Ibrahim Yuksel 17-23

Resource potential and scope of utilization of renewable energy in Jammu and Kashmir, India
Shiv Kumar Lohan, Jagvir Dixit, Sheikh Modasir, Mohd. Ishaq 24-29

A social marketing mix for renewable energy in Europe based on consumer stated preference surveys
Angeliki N. Menegaki 30-39

Sources and mitigation of methane emissions by sectors: A critical review
Izzet Karakurt, Gokhan Aydin, Kerim Aydiner 40-48

FRONT

Atlas of global wave energy from 10 years of reanalysis and hindcast data
Randi A. Arinaga, Kwok Fai Cheung 49-64

Optical evaluation and analysis of an internal low-concentrated evacuated tube heat pipe solar collector for powering solar air-conditioning systems
Dan Nchelatebe Nkwetta, Mervyn Smyth, Aggelos Zacharopoulos, Trevor Hyde 65-70

Planning municipal-scale energy systems under functional interval uncertainties
Y. Zhu, Y.P. Li, G.H. Huang 71-84

Discrete demand side control performance under dynamic building simulation: A heat pump application
Jun Hong, Cameron Johnstone, Jacopo Torriti, Matthew Leach 85-95

Dynamic modeling of a hybrid wind/solar/hydro microgrid in EMTP/ATP
Lin Ye, Hai Bo Sun, Xu Ri Song, Li Cheng Li 96-106

Driving actors to promote sustainable energy policies and businesses in local communities: A case study in Bizen city, Japan
Kohei Izutsu, Masao Takano, Shota Furuya, Tetsunari Iida 107-113

Exergetic analysis of solar concentrator aided natural gas fired combined cycle power plant
V. Siva Reddy, S.C. Kaushik, S.K. Tyagi 114-125

Rich hydrogen production from crude gas secondary catalytic cracking over Fe/γ-Al_2O_3
Xu Xiwei, Jiang Enchen, Mingfeng Wang, Li Bosong 126-131

Optimal operation of DC smart house system by controllable loads based on smart grid topology
Kenichi Tanaka, Akihiro Yoza, Kazuki Ogimi, Atsushi Yona, Tomonobu Senjyu, Toshihisa Funabashi, Chul-Hwan Kim 132-139

Performance analysis of a planted roof as a passive cooling technique in hot-humid tropics
Samah Hodo-Abalo, Magolmèèna Banna, Belkacem Zeghmati 140-148

Simulations of economical and technical feasibility of battery and flywheel hybrid energy storage systems in autonomous projects
George N. Prodromidis, Frank A. Coutelieris 149-153

Energy consumption in typical Caribbean office buildings: A potential short term solution to energy concerns
Erwin Elliot Edwards, O.S. Iyare, L.L. Moseley 154-161

Diffusion of innovation model of consumer behaviour – Ideas to accelerate adoption of renewable energy sources by consumer communities in India
Swaminathan Mani, Tarun Dhingra 162-165

Securing critical loads in a PV-based microgrid with a multi-agent system
Manisa Pipattanasomporn, Hassan Feroze, Saifur Rahman 166-174

The feasibility of using circulating groundwater as renewable energy sources for air-conditioning in Taipei basin
Chihping Kuo, Hungjiun Liao 175-182

Prospects of renewable energy – a feasibility study in the Australian context
G.M. Shafiullah, M.T.O. Amanullah, A.B.M. Shawkat Ali, Dennis Jarvis, Peter Wolfs 183-197

Heat loss of a trapezoidal cavity absorber for a linear Fresnel reflecting solar concentrator
S. Flores Larsen, M. Altamirano, A. Hernández 198-206

Study of a solar water heater using stationary V-trough collector
K.K. Chong, K.G. Chay, K.H. Chin 207-215

Bioethanol production from sweet potato by co-immobilization of saccharolytic molds and Saccharomyces cerevisiae
Wen-Shiang Lee, I-Chu Chen, Cheng-Hsiung Chang, Shang-Shyng Yang 216-222

Bioconversion of residual glycerol from biodiesel synthesis into 1,3-propanediol and ethanol by isolated bacteria from environmental consortia
Daniele Misturini Rossi, Janaína Berne da Costa, Elisangela Aquino de Souza, Maria do Carmo Ruaro Peralba, Marco Antônio Záchia Ayub 223-227

FRONT

Probabilistic approach to multi-objective Volt/Var control of distribution system considering hybrid fuel cell and wind energy sources using Improved Shuffled Frog Leaping Algorithm

Ahmad Reza Malekpour, Sajad Tabatabaei, Taher Niknam 228-240

Solar heat gains and operative temperature in attached sunspaces

Giuseppe Oliveti, Natale Arcuri, Marilena De Simone, Roberto Bruno 241-249

Investigating the effects of operational factors on PEMFC performance based on CFD simulations using a three-level full-factorial design

Shan-Jen Cheng, Jr-Ming Miao, Sheng-Ju Wu 250-260

Spatially explicit assessment of local biomass availability for distributed biogas production via anaerobic co-digestion – Mediterranean case study

Alyona Zubaryeva, Nicola Zaccarelli, Cecilia Del Giudice, Giovanni Zurlini 261-270

The dynamics of integrated compressed air renewable energy systems

Seamus D. Garvey 271-292

An experimental investigation on the effect of Al_2O_3–H_2O nanofluid on the efficiency of flat-plate solar collectors

Tooraj Yousefi, Farzad Veysi, Ehsan Shojaeizadeh, Sirus Zinadini 293-298

Formulating directional industry strategies for renewable energies in developing countries: The case study of Iran's wind turbine industry

Nasser Bagheri Moghaddam, Sayyed Moslem Mousavi, Enayat A. Moallemi, Masoud Nasiri 299-306

Using an energy flow chart to analyze Jiangsu Province's energy balance

Ming Zhang, Wenwen Wang 307-312

Qualitative investigation on effects of manifold shape on methanol steam reforming for hydrogen production

Dehuai Zeng, Minqiang Pan, Yong Tang 313-322

Calculation of hoisting forces of the wind turbine rotor based on wind conditions

Yong Wang, Wei He, De Tian 323-328

Wake effect in wind farm performance: Steady-state and dynamic behavior

F. González-Longatt, P. Wall, V. Terzija 329-338

Effects of pretreatment methods on cassava wastewater for biohydrogen production optimization

E.P. Leaño, S. Babel 339-346

The influence of exterior surface solar absorptivity on thermal characteristics and optimum insulation thickness

Meral Ozel 347-355

Numerical modelling of wind and dust patterns around a full-scale paraboloidal solar dish

Farid C. Christo 356-366

School Students participation in monitoring solar radiation components: Preliminary results for UVB and UVA solar radiant fluxes

C.P. Jacovides, J. Boland, D. Rizou, N.A. Kaltsounides, G.A. Theoharatos 367-374

Analytical and experimental investigations of nanoparticles embedded phase change materials for cooling application in modern buildings

S. Kalaiselvam, R. Parameshwaran, S. Harikrishnan 375-387

Similarity and generalized analysis of efficiencies of thermal energy storage systems

Peiwen Li, Jon Van Lew, Cholik Chan, Wafaa Karaki, Jake Stephens, J.E. O'Brien 388-402

The concept of a smart wind turbine system

R.N. Sharma, U.K. Madawala 403-410

FRONT

Promoting renewables in the energy sector of Tajikistan
Haris Doukas, Vangelis Marinakis, Charikleia Karakosta, John Psarras 411-418
Polymer electrolyte based on polyethylene glycol for quasi-solid state dye sensitized solar cells
J. Gong, K. Sumathy, J. Liang 419-423
Comparative assessment of performance of foreign and local wind turbine manufacturers in China
Zhen-yu Zhao, Wen-jun Ling, George Zillante, Jian Zuo 424-432
Optimal angles for harvesting solar electricity in some African cities
V.N. Dike, T.C. Chineke, O.K. Nwofor, U.K. Okoro 433-439
BEM theory: How to take into account the radial flow inside of a 1-D numerical code
R. Lanzafame, M. Messina 440-446
Exergy analysis of two phase change materials storage system for solar thermal power with finite-time thermodynamics
Ya-Qi Li, Ya-Ling He, Zhi-Feng Wang, Chao Xu, Weiwei Wang 447-454
Dynamic simulation of thermal energy storage system of Badaling 1 MW solar power tower plant
Ershu Xu, Zhifeng Wang, Gao Wei, Jiayan Zhuang 455-462
Seawater lubricated polymer journal bearings for use in wave energy converters
Stephen Meicke, Robert Paasch 463-470
Inverse neural network based control strategy for absorption chillers
J. Labus, J.A. Hernández, J.C. Bruno, A. Coronas 471-482
A model for evaluating the economic feasibility of small-scale biodiesel production systems for on-farm fuel usage
Johan Pienaar, Alan C. Brent 483-489
Development program of hot dry rock geothermal resource in the Yangbajing Basin of China
Zijun Feng, Yangsheng Zhao, Anchao Zhou, Ning Zhang 490-495

Renewable Energy Volume 40, 2012

Power curve tracking in the presence of a tip speed constraint
C.L. Bottasso, A. Croce, Y. Nam, C.E.D. Riboldi 1-12
VSC-based direct torque and reactive power control of doubly fed induction generator
Jiabing Hu, Xiaoming Yuan 13-23
Design and fabrication of diffusive solar cell window
Ruei-Tang Chen, Joseph Lik Hang Chau, Gan-Lin Hwang 24-28
Time-adaptive quantile-copula for wind power probabilistic forecasting
Ricardo J. Bessa, V. Miranda, A. Botterud, Z. Zhou, J. Wang 29-39
Coordinated control of TCPS and SMES for frequency regulation of interconnected restructured power systems with dynamic participation from DFIG based wind farm
Praghnesh Bhatt, S.P. Ghoshal, Ranjit Roy 40-50
Further analysis of change in nearshore wave climate due to an offshore wave farm: An enhanced case study for the Wave Hub site
Helen C.M. Smith, Charles Pearce, Dean L. Millar 51-64
Efficacy of gossypol as an antioxidant additive in biodiesel
Bryan R. Moser 65-70

FRONT

Modeling solar still production using local weather data and artificial neural networks

Noe I. Santos, Aly M. Said, David E. James, Nanda H. Venkatesh 71-79

A 10 year installation program for wave energy in Ireland: A case study sensitivity analysis on financial returns

G.J. Dalton, R. Alcorn, T. Lewis 80-89

Wave energy potential along the northern coasts of the Gulf of Oman, Iran

A.Saket, A. Etemad-Shahidi 90-97

The energy consumption performance of roof lawn gardens in Thailand

98-103 98-103

New method for assessing the performance of agricultural biogas plants

Djordje Djatkov, Mathias Effenberger, Andreas Lehner, Milan Martinov, Milos Tesic, Andreas Gronauer 104-112

Energy security and hydropower development in Malaysia: The drivers and challenges facing the Sarawak Corridor of Renewable Energy (SCORE)

Benjamin K. Sovacool, L.C. Bulan 113-129

Lipid production from sweet sorghum bagasse through yeast fermentation

Yanna Liang, Tianyu Tang, Thara Siddaramu, Ruplal Choudhary, Arosha Loku Umagiliyage 130-136

Wind energy development in Cantabria, Spain. Methodological approach, environmental, technological and social issues

César Otero, Cristina Manchado, Rubén Arias, Viola M. Bruschi, Valentín Gómez-Jáuregui, Antonio Cendrero 137-149

Utilization of cathodic protection for transmission towers through photovoltaic generation

C. Tiba, E.M. de Oliveira 150-156

Optimal reactive power allocation in an offshore wind farms with LCC-HVdc link connection

Miguel Montilla-DJesus, David Santos-Martin, Santiago Arnaltes, Edgardo D. Castronuovo 157-166

Renewable Energy Volume 41, 2012

Advances in solar hydrogen production via two-step water-splitting thermochemical cycles based on metal redox reactions

Lan Xiao, Shuang-Ying Wu, You-Rong Li 1-12

Flow separation on a high Reynolds number, high solidity vertical axis wind turbine with straight and canted blades and canted blades with fences

Shawn Armstrong, Andrzej Fiedler, Stephen Tullis 13-22

Hydrogen production by catalytic cracking of rice husk over Fe_2O_3/γ-Al_2O_3 catalyst

Xiwei Xu, Jiang Enchen, Wang Mingfeng, Li Bosong, Zhou Ling 23-28

Hydrogen production by catalytic cracking of rice husk over Fe_2O_3/γ-Al_2O_3 catalyst

Xiwei Xu, Jiang Enchen, Wang Mingfeng, Li Bosong, Zhou Ling 23-28

Optimal sizing of biomass-fired Organic Rankine Cycle CHP system with heat storage

Gregor Taljan, Gregor Verbič, Miloš Pantoš, Manfred Sakulin, Lothar Fickert 29-38

Heat transfer analysis and experimental verification of casted heat exchanger in non-icing and icing conditions in winter

Jie Yu, Huan Zhang, Shijun You

Numerical benchmarking study of a selection of wave energy converters

ABabarit, J. Hals, M.J. Muliawan, A. Kurniawan, T. Moan, J. Krokstad

FRONT

Domestic application of micro wind turbines in Ireland: Investigation of their economic viability

Zhe Li, Fergal Boyle, Anthony Reynolds 64-74

Double the biodiesel yield: Rearing black soldier fly larvae, Hermetia illucens, on solid residual fraction of restaurant waste after grease extraction for biodiesel production

Longyu Zheng, Qing Li, Jibin Zhang, Ziniu Yu 75-79

Geothermal energy production utilizing abandoned oil and gas wells

Xianbiao Bu, Weibin Ma, Huashan Li 80-85

Simulation of an innovative flow-field design based on a bio inspired pattern for PEM fuel cells

R. Roshandel, F. Arbabi, G. Karimi Moghaddam 86-95

A comparative life cycle analysis of low power PV lighting products for rural areas in South East Asia

Bart Durlinger, Angèle Reinders, Marten Toxopeus

Hydrodynamics of the IPS buoy wave energy converter including the effect of non-uniform acceleration tube cross section

António F.O. Falcão, José J. Cândido, Paulo A.P. Justino, João C.C. Henriques 105-114

Effects of the morphology of nanostructured ZnO films on the efficiency of dye-sensitized solar cells

M. Giannouli, F. Spiliopoulou 115-122

Net energy analysis for concentrated solar power plants in northern Chile

Teresita Larraín, Rodrigo Escobar 123-133

Control analysis for solar panel dust mitigation using an electric curtain

D. Qian, J.S. Marshall, J. Frolik 134-144

Wind power generation in China: Understanding the mismatch between capacity and generation

Mian Yang, Dalia Patiño-Echeverri, Fuxia Yang 145-151

Application of mixture topological index method to predict the dynamic viscosity of the hypothetical acidic oils-based biodiesel fuels

Qing Shu, Changlin Yu, Dingjian Cai, Daoling Xiong 152-158

Air–water two-phase flow modelling of hydrodynamic performance of an oscillating water column device

Yali Zhang, Qing-Ping Zou, Deborah Greaves 159-170

Steady and rotating computational fluid dynamics simulations of a novel vertical axis wind turbine for small-scale power generation

S. McTavish, D. Feszty, T. Sankar 171-179

The effect of turbulence on noise emissions from a micro-scale horizontal axis wind turbine

T. Rogers, S. Omer 180-184

Wake flow model of wind turbine using particle simulation

M.X. Song, K. Chen, Z.Y. He, X. Zhang 185-190

Potential of five plants growing on unproductive agricultural lands as biodiesel resources

Cheng-Jiang Ruan, Wei-He Xing, Jaime A. Teixeira da Silva 191-199

Biogas prediction and design of a food waste to energy system for the urban environment

Nathan Curry, Pragasen Pillay 200-209

A study on Kalina solar system with an auxiliary superheater

Faming Sun, Yasuyuki Ikegami, Baoju Jia 210-219

Efficiency optimization in stand-alone photovoltaic pumping system

Tomás Perpétuo Corrêa, Seleme Isaac Seleme Jr., Selênio Rocha Silva 220-226

Photovoltaic panel integrated power conditioning system using a high efficiency step-up DC–DC converter

Woo-Young Choi, Change-Goo Lee 227-234

FRONT

Uncertainty analysis of the adequacy assessment model of a distributed generation system
Yanfu Li, Enrico Zio 235-244

Numerical sensitivity study of thermal response tests
Valentin Wagner, Peter Bayer, Markus Kübert, Philipp Blum 245-253

System simulation of a linear concentrating photovoltaic system with an active cooling system
Tony Kerzmann, Laura Schaefer 254-261

The effect of the stabilizer on the properties of a synthetic Ni_{core}–Pt_{shell} catalyst for PEM fuel cells
Saowaluck Bhlapibul, Kejvalee Pruksathorn, Pornpote Piumsomboon 262-266

Optimal design of permanent-magnet direct-drive generator for wind energy considering the cost uncertainty in raw materials
Manuel Pinilla, Sergio Martinez 267-276

Life cycle assessment of municipal solid waste treatment to energy options: Case study of KARTAMANTUL region, Yogyakarta
Made Gunamantha, Sarto 277-284

Implications of temporal resolution for modeling renewables-based power systems
Eric J. Hoevenaars, Curran A. Crawford 285-293

Control strategies and configurations of hybrid distributed generation systems
Maria Stefania Carmeli, Francesco Castelli-Dezza, Marco Mauri, Marchegiani, Daniele Rosati 294-305

Noise impact assessment on the basis of onsite acoustic noise measurements for a representative wind
J.K. Kaldellis, K. Garakis, M. Kapsali 306-314

A fuzzy logic energy management system for polygeneration microgrids
George Kyriakarakos, Anastasios I. Dounis, Konstantinos G. Arvanitis, George Papadakis 315-327

Impact of inverter configuration on energy cost of grid-connected photovoltaic systems
Fanbo He, Zhengming Zhao, Liqiang Yuan 328-335

Direct connection of WECS system to the MV grid with multilevel converters
Santiago A. Verne, María I. Valla 336-344

Conversion of squirrel cage induction motors to wind turbine PMG
Suhail Zaki Farooqui 345-349

Analyzing consumer acceptance of photovoltaics (PV) using fuzzy logic model
Pei Zhai, Eric D. Williams 350-357

Integrating renewable energy technologies to support building trigeneration – A multi-criteria analysis
K.J. Chua, W.M. Yang, T.Z. Wong, C.A. Ho 358-367

Study on thermal efficiency of low- to medium-temperature organic Rankine cycles using HFO–1234yf
Noboru Yamada, Md Nor Anuar Mohamad, Trinh Trung Kien 368-375

Experimental study on simplification of Darrieus-type hydro turbine with inlet nozzle for extra-low head hydropower utilization
Kai Shimokawa, Akinori Furukawa, Kusuo Okuma, Daisuke Matsushita, Satoshi Watanabe 376-382

Amorphous carbon as a flexible counter electrode for low cost and efficient dye sensitized solar cell
Ganapathy Veerappan, Karunagaran Bojan, Shi-Woo Rhee 383-388

Cost reductions for offshore wind power: Exploring the balance between scaling, learning and R&D
Bob van der Zwaan, Rodrigo Rivera-Tinoco, Sander Lensink, Paul van den Oosterkamp 389-393

General formula for the estimation of global solar radiation on earth's surface around the globe
Iranna Korachagaon, V.N. Bapat 394-400

Study on a snow storage system in a renovated space
Yasuhiro Hamada, Tsutomu Nagata, Hideki Kubota, Takayuki Ono, Yoshiaki Hashimoto 401-406

FRONT

A model for vertical wind speed data extrapolation for improving wind resource assessment using WAsP
Željko Đurišić, Jovan Mikulović 407-411
Monthly average daily global solar irradiation maps for Uganda: A location in the equatorial region
J. Mubiru, E.J.K.B. Banda 412-415
FTIR quantitative analysis technique for gases. Application in a biomass thermochemical process
E. Granada, P. Eguía, J.A. Vilan, J.A. Comesaña, R. Comesaña 416-421

Renewable Energy Volume 42, 2012

The investigation of one step annealing for plated Ni/Cu contact solar cells
Jae-Doo Lee, Hyuk-Yong Kwon, Min-Jeong Kim, Eun-Joo Lee, Hae-Seok Lee, Soo-Hong Lee 1-3
An estimation of the extreme wind speed using the Korea wind map
Bong-Hee Lee, Dong-Joon Ahn, Hyun-Goo Kim, Young-Cheol Ha 4-10
Evaluation of thermal performance of energy textile installed in Tunnel
Chulho Lee, Sangwoo Park, Jongmuk Won, Jaehyeung Jeoung, Byonghu Sohn, Hangseok Choi 11-22
Thermoelectric properties of a doped Mg_2Sn system
Tae-Ho An, Soon-Mok Choi, Il-Ho Kim, Sun-Uk Kim, Won-Seon Seo, Jong-Young Kim, Chan Park 23-27
Modeling and voltage-control of variable-speed SCAG-based wind farm
Haejoon An, Heesang Ko, Hongwoo Kim, Hyungoo Kim, Seokwoo Kim, Gilsoo Jang, Byongjun Lee 28-35
Thermoelectric properties of Spark Plasma Sintered $In_xYb_yLa_{0.3-x-y}Co_4Sb_{12}$ skutterudite system
Jae-Ki Lee, Soon-Mok Choi, Won-Seon Seo, Young-Soo Lim, Hong-Lim Lee, Il-Ho Kim 36-40
Production of anhydrous ethanol using various PSA (Pressure Swing Adsorption) processes in pilot plant
Jun-seong Jeong, Hyungjin Jeon, Kyung-mo Ko, Bongwoo Chung, Gi-Wook Choi 41-45
Aerodynamic noise analysis of large horizontal axis wind turbines considering fluid–structure interaction
Hogeon Kim, Seunghoon Lee, Eunkuk Son, Seungmin Lee, Soogab Lee 46-53
Transient behavior of proton exchange membrane fuel cell under non-isothermal condition
Sang Soon Hwang, Pil Hyong Lee, Soon Hye Jo, Chun Loon Cha, Seong Weon Hong, Sang Seok Han, Ja Ye Koo 54-59
Impact of oleic acid on the fermentation of glucose and xylose mixtures to hydrogen and other byproducts
Subba Rao Chaganti, Dong-Hoon Kim, Jerald A. Lalman 60-65
Design of a low Reynolds number airfoil for small horizontal axis wind turbines
Ronit K. Singh, M. Rafiuddin Ahmed, Mohammad Asid Zullah, Young-Ho Lee 66-76
Performance evaluation of closed-loop vertical ground heat exchangers by conducting in-situ thermal response tests
Chulho Lee, Moonseo Park, The-Bao Nguyen, Byonghu Sohn, Jong Min Choi, Hangseok Choi 77-83
Physical properties and flame characteristics of water electrolysis gas
Hong Gun Kim, Lee Ku Kwac, Joong Dal Shin 84-89
The effect of operation parameters on the hydrothermal drying treatment
Dawei Meng, Zili Jiang, Yoshikawa Kunio, Hongyan Mu
Exceeding 19% efficient 6 inch screen printed crystalline silicon solar cells with selective emitter
Eunjoo Lee, Kyeongyeon Cho, Dongjoon Oh, Jimyung Shim, Hyunwoo Lee, Junyoung Choi, Jisun Kim, Jeongeun Shin, Soohong Lee, Haeseok Lee 95-98
Biodiesel production from crude canola oil by two-step enzymatic processes
Myung Gwi Jang, Deog Keun Kim, Soon Chul Park, Jin Suk Lee, Seung Wook Kim 99-104

FRONT

Mitigation of flow separation using DBD plasma actuators on airfoils: A tool for more efficient wind turbine operation

Seth Walker, Takehiko Segawa 105-110

Refrigerant amount detection algorithm for a ground source heat pump unit

Hangseok Choi, Honghyun Cho, Jong Min Choi 111-117

Design and performance study of the ground-coupled heat pump system with an operating parameter

Jin Taek Chung, Jong Min Choi 118-124

Effects of operation conditions on pyrolysis characteristics of agricultural residues

Young-Kwon Park, Myung Lang Yoo, Hyung Won Lee, Sung Hoon Park, Sang-Chul Jung, Sang-Sook Park, Sang-Chai Kim 125-130

Fast pyrolysis characteristics of lignocellulosic biomass with varying reaction conditions

Hang Seok Choi, Yeon Seok Choi, Hoon Chae Park 131-135

The spray characteristics of unrefined biodiesel

Seunghun Choi, Youngtaig Oh 136-139

Effects of design parameters on aerodynamic performance of a counter-rotating wind turbine

Seungmin Lee, Hogeon Kim, Eunkuk Son, Soogab Lee 140-144

The operation results of a 125 kW molten carbonate fuel cell system

Beomjoo Kim, Do Hyung Kim, Junghyun Lee, Seung Won Kang, Hee Chun Lim 145-151

Wind tunnel test results for a 2/4.5 scale MEXICO rotor

Taehwan Cho, Cheolwan Kim 152-156

Development of algorithm based on the coupling method with CFD and motor test results to predict performance and efficiency of a fuel cell air fan

Joo-Han Kim, Nahmkeon Hur, Wook Kim 157-162

Gasification and power generation characteristics of rice husk and rice husk pellet using a downdraft fixed-bed gasifier

Sang Jun Yoon, Yung-Il Son, Yong-Ku Kim, Jae-Goo Lee 163-167

Wild reed of Suncheon Bay: Potential bio-energy source

Young-Kwon Park, Myung Lang Yoo, Hyeon Su Heo, Hyung Won Lee, Sung Hoon Park, Sang-Chul Jung, Sang-Sook Park, Seong-Gyu Seo 168-172

Numerical and experimental studies on hydrofoils for marine current turbines

Jai N. Goundar, M. Rafiuddin Ahmed, Young-Ho Lee 173-179

A numerical study on anode thickness and channel diameter of anode-supported flat-tube solid oxide fuel cells

Joonguen Park, Joongmyeon Bae, Jae-Yuk Kim 180-185

An innovative design of wave energy converter

K.K. Ahn, D.Q. Truong, Hoang Huu Tien, Jong Il Yoon 186-194

Performance of horizontal axis tidal current turbine by blade configuration

Chul hee Jo, Jin young Yim, Kang hee Lee, Yu ho Rho 195-206

A kinetic assessment of glucose production from pretreated Gelidium amansii by dilute acid hydrolysis

Tae-Su Jeong, Young-Soo Kim, Kyeong-Keun Oh 207-211

Low temperature steam reforming of methane over Ni–$Ce_{(1-x)}Zr_{(x)}O_2$ catalysts under severe conditions

Hyun-Seog Roh, Ic-Hwan Eum, Dae-Woon Jeong 212-216

Wind resource assessment around Korean Peninsula for feasibility study on 100 MW class offshore wind farm

Ki-Yong Oh, Ji-Young Kim, Jun-Shin Lee, Ki-Wahn Ryu 217-226

FRONT

Blade layers optimization of wind turbines using FAST and improved PSO Algorithm

C.C. Liao, X.L. Zhao, J.Z. Xu 227-233

Analysis of design variables for an efficient natural gas steam reforming process comprised in a small scale hydrogen fueling station

Deuk Ki Lee, Kee Young Koo, Dong Joo Seo, Wang Lai Yoon 234-242

Renewable Energy Volume 43, 2012

Applications of Bayesian methods in wind energy conversion systems

Gong Li, Jing Shi 1-8

Tidal range turbines and generation on the Solway Firth

G.A. Aggidis, O. Feather 9-17

Modeling and dynamic simulation of the collector and receiver system of 1 MWe DAHAN solar thermal power tower plant

Qiang Yu, Zhifeng Wang, Ershu Xu, Xin Li, Minghuan Guo 18-29

Life cycle assessment of CO_2 emissions from wind power plants: Methodology and case studies

Yuxuan Wang, Tianye Sun 30-36

An improved procedure for the experimental characterization of optical efficiency in evacuated tube solar collectors

E. Zambolin, D. Del Col 37-46

The technical and economic implications of integrating fluctuating renewable energy using energy storage

D. Connolly, H. Lund, B.V. Mathiesen, E. Pican, M. Leahy 47-60

Environmentally conscious capacity planning and technology selection for bioethanol supply chains

Sara Giarola, Andrea Zamboni, Fabrizio Bezzo 61-72

Control of wind turbine power and vibration with a data-driven approach

Andrew Kusiak, Zijun Zhang 73-82

Analytical resolution of the electrical four-parameters model of a photovoltaic module using small perturbation around the operating point

F.J. Toledo, José M. Blanes, Ausiàs Garrigós, José A. Martínez 83-89

Improvements in the grid connection of renewable generators with full power converters

Dionisio Ramirez, Sergio Martinez, Carmelo Carrero, Carlos A. Platero 90-100

System design of a wind turbine using a multi-level optimization approach

Kevin Maki, Ricardo Sbragio, Nickolas Vlahopoulos 101-110

Dynamic simulation of the distributed radiative and convective climate within a cropped greenhouse

R. Nebbali, J.C. Roy, T. Boulard 111-129

Comparative study of mathematical models in estimating solar irradiance for Australia

J.K. Copper, A.B. Sproul 130-139

Expansion of the residential photovoltaic systems and its harmonic impact on the distribution grid

Kresimir Fekete, Zvonimir Klaic, Ljubomir Majdandzic 140-148

Synthesis and characterization of TiO_2/ZnO core/shell nanomaterials for solar cell applications

S.S. Kanmani, K. Ramachandran 149-156

A comprehensive study of the impact of green roofs on building energy performance

Issa Jaffal, Salah-Eddine Ouldboukhitine, Rafik Belarbi 157-164

FRONT

Regeneration of Kinmen military installations through the integration of renewable energy technologies and battlefield resources

Hua-Yueh Liu 165-171

Effect of group IV elements on the thermodynamic property of NaH + Al

Christopher C. Nwakwuo, Nico Eigen, Martin Dornheim, Rudiger Bormann 172-178

Integration of hydrogen production and waste heat recovery in electrochemical wastewater treatment

Juyuan Jiang, Jianli Hu, Mingxian Cui, He Tian 179-182

Methods to extrapolate wind resource to the turbine hub height based on power law: A 1-h wind speed vs. Weibull distribution extrapolation comparison

Giovanni Gualtieri, Sauro Secci 183-200

Integrated environmental assessment of energy crops for biofuel and energy production in Greece

Georgios Fontaras, Vassiliki Skoulou, Georgios Zanakis, Anastasia Zabaniotou, Zissis Samaras 201-209

Assessing the wave energy converter potential for Australian coastal regions

Sam Behrens, Jennifer Hayward, Mark Hemer, Peter Osman 210-217

Measurement of glass transition temperature of crosslinked EVA encapsulant by thermal analysis for photovoltaic application

K. Agroui, G. Collins, J. Farenc 218-223

Calculating the offshore wind power resource: Robust assessment methods applied to the U.S. Atlantic Coast

Blaise Sheridan, Scott D. Baker, Nathaniel S. Pearre, Jeremy Firestone, Willett Kempton 224-233

Performance evaluation and accuracy enhancement of a day-ahead wind power forecasting system in China

Pan Zhao, Jiangfeng Wang, Junrong Xia, Yiping Dai, Yingxin Sheng, Jie Yue 234-241

Wave prediction based on a modified grey model MGM(1,1) for real-time control of wave energy converters in irregular waves

D.Q. Truong, K.K. Ahn 242-255

A sensorless control method for variable-speed small wind turbines

I. Şerban, C. Marinescu 256-266

Power flow management algorithm for photovoltaic systems feeding DC/AC loads

B. Indu Rani, G. Saravana Ilango, C. Nagamani 267-275

Heterotrophic cultivation of mixed microalgae for lipid accumulation and wastewater treatment during sequential growth and starvation phases: Effect of nutrient supplementation

M. Prathima Devi, G. Venkata Subhash, S. Venkata Mohan 276-283

Transient analysis of grounding systems for wind turbines

Damir Cavka, Dragan Poljak, Vicko Doric, Ranko Goic 284-291

Influence of duct geometry on the performance of Darrieus hydroturbine

A.R. Malipeddi, D. Chatterjee 292-300

A dynamic multi-level model for adsorptive solar cooling

Giulio Santori, Alessio Sapienza, Angelo Freni 301-312

Ground temperature profiles and thermal rock properties at Wairakei, New Zealand

Saskia M. van Manen, Erin Wallin 313-321

EU plans for renewable energy. An application to the Spanish case

Salvador Ruiz Romero, Antonio Colmenar Santos, Manuel Alonso Castro Gil 322-330

Cost of energy and mutual shadows in a two-axis tracking PV system

O. Perpiñán 331-342

Control of a matrix converter for the operation of autonomous systems

Roberto Cárdenas, Rubén Peña, Patrick Wheeler, Jon Clare, Carlos Juri 343-353

FRONT

Investigation of urban canyon microclimate in traditional and contemporary environment. Experimental investigation and parametric analysis

E. Andreou, K. Axarli 354-363

Renewable energy in upper North Africa: Present versus 2025-horizon perspectives optimization using a Data Envelopment Analysis (DEA) framework

K. Boubaker 364-369

Using a shore bird (red knot) fitted with geolocators to evaluate a conceptual risk model focusing on offshore wind

Joanna Burger, Lawrence J. Niles, Ronald R. Porter, Amanda D. Dey, Stephanie Koch, Caleb Gordon 370-377

Effect of nanostructured ZnO cathode layer on the photovoltaic performance of inverted bulk heterojunction solar cells

D. Rana Bekci, Sule Erten-Ela 378-382

Can the GB feed-in tariff deliver the expected 2% of electricity from renewable sources?

S.L. Walker 383-388

No-load core loss prediction of PM generator at low electrical frequency

Fredrik Bülow, Sandra Eriksson, Hans Bernhoff 389-392

Optimal choice and design of different topologies of DC–DC converter used in PV systems, at different climatic conditions in Egypt

M.A. Farahat, H.M.B. Metwally, Ahmed Abd-Elfatah Mohamed 393-402

Reducing energy for cellulose ethanol production by the use of sterilising agents in lieu of steam

Mitchell Lever, Goen Ho 403-406

Temperature and thermal annealing effects on different photovoltaic technologies

George Makrides, Bastian Zinsser, Phinikarides, Markus Schubert, George E. Georghiou 407-417

Impacts of CO_2 emission constraints on penetration of solar PV in the Bangladesh power sector

Md. Alam Hossain Mondal, A.K.M. Sadrul Islam 418-422

Do ethanol prices in Brazil follow Brent price and international gasoline price parity?

Marcelo Cavalcanti, Alexandre Szklo, Giovani Machado 423-433

Renewable Energy Volume 44, 2012

A critical-analysis on the development of China hydropower

Zhao Xingang, Liu Lu, Liu Xiaomeng, Wang Jieyu, Liu Pingkuo 1-6

Modeling of multi-junction solar cells for estimation of EQE under influence of charged particles using artificial neural networks

Jagdish C. Patra, Douglas L. Maskell 7-16

The economic, environmental and strategic value of biomass

Patrícia Carneiro, Paula Ferreira 17-22

Spatio-temporal assessment of dust risk maps for solar energy systems using proxy data

Yassine Charabi, Adel Gastli 23-31

A new control strategy for small wind farm with capabilities of supplying required reactive power and transient stability improvement

Mehdi Samiei Sarkhanloo, Ahmad Sadeghi Yazdankhah, Rasool Kazemzadeh 32-39

FRONT

Energy performance evaluation of a demo solar desiccant cooling system with heat recovery for the regeneration of the adsorption material

Marco Beccali, Pietro Finocchiaro, Bettina Nocke 40-52

Design of wind farm layout using ant colony algorithm

Yunus Eroğlu, Serap Ulusam Seçkiner 53-62

A robust LMI-based pitch controller for large wind turbines

H.M. Hassan, A.L. ElShafei, W.A. Farag, M.S. Saad 63-71

Generic maximum power point tracking controller for small-scale wind turbines

M. Narayana, G.A. Putrus, M. Jovanovic, P.S. Leung, S. McDonald 72-79

Wind farm land suitability indexing using multi-criteria analysis

Sultan Al-Yahyai, Yassine Charabi, Adel Gastli, Abdullah Al-Badi 80-87

Study on the flooding phenomena and performance enhancement of PEM fuel cell applying a Concus-Finn condition

Seong Ho Han, Nam Hyeon Choi, Young Don Choi 88-98

Integration of PV power into future low-carbon smart electricity systems with EV and HP in Kansai Area, Japan

Qi Zhang, Tetsuo Tezuka, Keiichi N. Ishihara, Benjamin C. Mclellan

Are public policies towards renewables successful? Evidence from European countries

António Cardoso Marques, José Alberto Fuinhas 109-118

Developing renewable energy supply in Queensland, Australia: A study of the barriers, targets, policies and actions

Nigel J. Martin, John L. Rice 119-127

Using electrical analogy to describe mass and charge transport in PEM fuel cell

P. Noiying, M. Hinaje, P. Thounthong, S. Raël, B. Davat 128-140

Interactions between the physical soil environment and a horizontal ground coupled heat pump, for a domestic site in the UK

Raquel Garcia Gonzalez, A Verhoef, Pier Luigi Vidale, Bruce Main, Guogui Gan, Yupeng Wu 141-153

On-site or off-site renewable energy supply options? Life cycle cost analysis of a Net Zero Energy Building in Denmark

Anna Joanna Marszal, Per Heiselberg, Rasmus Lund Jensen, Jesper Nørgaard 154-165

Comparative life cycle assessment of thermal energy storage systems for solar power plants

Eduard Oró, Antoni Gil, Alvaro de Gracia, Dieter Boer, Luisa F. Cabeza 166-173

The levels of awareness about the renewable energy sources of university students in Turkey

Yelda Karatepe, Seçil Varbak Neşe, Ali Keçebaş, Mehmet Yumurtacı 174-179

An economic assessment of tropical cyclone risk on offshore wind farms

Lixuan Hong, Bernd Möller 180-192

Synchronization of DFIG output voltage to utility grid in wind power system

Ahmed G. Abo-Khalil 193-198

Direct fermentation of newspaper after laccase-treatment using yeast codisplaying endoglucanase, cellobiohydrolase, and β-glucosidase

Akihito Nakanishi, Kouichi Kuroda, Mitsuyoshi Ueda 199-205

Strategies for stable anaerobic digestion of vegetable waste

Y. Jiang, S. Heaven, C.J. Banks 206-214

Design of isolated hybrid systems minimizing costs and pollutant emissions

Abdel-Karim Daud, Mahmoud S. Ismail 215-224

FRONT

Evolutive design of ARMA and ANN models for time series forecasting

Juan J. Flores, Mario Graff, Hector Rodriguez 225-230

Fluidized bed combustion of residues from oranges' plantations and processing

Despina Vamvuka, Stelios Sfakiotakis, Manolis Kotronakis 231-237

Optimal extraction of solar cell parameters using pattern search

M.F. AlHajri, K.M. El-Naggar, M.R. AlRashidi, A.K. Al-Othman 238-245

A dynamic voltage model of a fuel cell stack considering the effects of hydrogen purge operation

Yongping Hou, Caoyuan Shen, Zhihua Yang, Yuntang He 246-251

Computer-aided design of horizontal axis turbine blades

F. Pérez-Arribas, I. Trejo-Vargas 252-260

Performance of a 100 kW wind turbine with a Variable Ratio Gearbox

John F. Hall, Dongmei Chen 261-266

Effect of non-standard operating frequencies on the economic cost of offshore AC networks

José Luis Domínguez-García, Daniel J. Rogers, Carlos E. Ugalde-Loo, Jun Liang, Oriol Gomis-Bellmunt 267-280

Energetic performance analysis of a solar photovoltaic cell (PV) assisted closed loop earth-to-air heat exchanger for solar greenhouse cooling: An experimental study for low energy architecture in Aegean Region

Ahmet Yıldız, Onder Ozgener, Leyla Ozgener 281-287

Optimum load management strategy for wind/diesel/battery hybrid power systems

Juan M. Lujano-Rojas, Cláudio Monteiro, Rodolfo Dufo-López, José L. Bernal-Agustín 288-295

Quantifying the global wave power resource

Kester Gunn, Clym Stock-Williams 296-304

Complementary biodiesel combination from tung and medium-chain fatty acid oils

Yi-Hung Chen, Jhih-Hong Chen, Yu-Min Luo 305-310

Short-term power forecasting system for photovoltaic plants

L. Alfredo Fernandez-Jimenez, Andrés Muñoz-Jimenez, Alberto Falces, Montserrat Mendoza-Villena, Eduardo Garcia-Garrido, Pedro M. Lara-Santillan, Enrique Zorzano-Alba, Pedro J. Zorzano-Santamaria 311-317

Assessment of array shape of tidal stream turbines on hydro-environmental impacts and power output

Reza Ahmadian, Roger A. Falconer 318-327

Hydrodynamic optimization of an axisymmetric floating oscillating water column for wave energy conversion

R.P.F. Gomes, J.C.C. Henriques, L.M.C. Gato, A.F.O. Falcão 328-339

A novel switched power filter-green plug (SPF-GP) scheme for wave energy systems

Emre Ozkop, Ismail H. Altas, Adel M. Sharaf 340-358

Addressing failure rate uncertainties of marine energy converters

Philipp R. Thies, George H. Smith, Lars Johanning 359-367

Numerical investigations on a pressurized volumetric receiver: Solar concentrating and collecting modelling

Y.L. He, Z.D. Cheng, F.Q. Cui, Z.Y. Li, D. Li 368-379

Development of a simulation model of biomass supply chain for biofuel production

Fengli Zhang, Dana M. Johnson, Mark A. Johnson 380-391

Social license and consultation criteria for community wind projects

Kenny Corscadden, Adam Wile, Emmanuel Yiridoe 392-397

FRONT

Present and future offshore wind power potential in northern Europe based on downscaled global climate runs with adjusted SST and sea ice cover

Idar Barstad, Asgeir Sorteberg, Michel dos-Santos Mesquita 398-405

Flexible design of a pico-hydropower system for Laos communities

Silvia Vicente, Hans Bludszuweit 406-413

Simplified site-screening method for micro tidal current turbines applied in Mozambique

Linus Hammar, Jimmy Ehnberg, Alberto Mavume, Francisco Francisco, Sverker Molander 414-422

Performance evaluation of energy efficient lighting associated with renewable energy applications

Allison N. Sperber, Andrew Curtis Elmore, Mariesa L. Crow, Jeffrey D. Cawlfield 423-430

Impact of time interval on the Ångström-Prescott coefficients and their interchangeability in estimating radiation

Mao-Fen Li, Li Fan, Hong-Bin Liu, Wei Wu, Ji-Long Chen 431-438

Local installation methods for low head pico-hydropower in the Lao PDR

J. Susanto, S. Stamp 439-447

An overview of small hydropower development in Lesotho: Challenges and prospects

B.M. Taele, L. Mokhutšoane, I. Hapazari 448-452

Design of a unique direct driven PM generator adapted for a telecom tower wind turbine

S. Eriksson, H. Bernhoff, M. Bergkvist 453-456

An exergy based unified test protocol for solar cookers of different geometries

Naveen Kumar, G. Vishwanath, Anurag Gupta 457-462

Pilot-scale anaerobic co-digestion of municipal biomass waste: Focusing on biogas production and GHG reduction

Xiao Liu, Xingbao Gao, Wei Wang, Lei Zheng, Yingjun Zhou, Yifei Sun 463-468

Further investigation of empirically derived models with multiple predictors in estimating monthly average daily diffuse solar radiation over China

Huashan Li, Xianbiao Bu, Yongwang Lian, Liang Zhao, Weibin Ma 469-473

Directionality in prospective Northern UK tidal current energy deployment sites

S.F. Harding, I.G. Bryden 474-477

Renewable Energy Volume 45, 2012

Use of ionic liquids in converting lignocellulosic material to biofuels

Tony Vancov, Amy-Sue Alston, Trevor Brown, Shane McIntosh 1-6

Optimal planning and design of a renewable energy based supply system for microgrids

Omar Hafez, Kankar Bhattacharya 7-15

Robust coordinated control of electrolyzer and PSS for stabilization of microgrid based on PID-based mixed H_2/H_∞ control

Issarachai Ngamroo 16-23

A method to evaluate the effect of complementarity in time between hydro and solar energy on the performance of hybrid hydro PV generating plants

Alexandre Beluco, Paulo Kroeff de Souza, Arno Krenzinger 24-30

On the annual wave energy absorption by two-body heaving WECs with latching control

J.C.C. Henriques, M.F.P. Lopes, R.P.F. Gomes, L.M.C. Gato, A.F.O. Falcão 31-40

FRONT

Modeling passive variable pitch cross flow hydrokinetic turbines to maximize performance and smooth operation

L. Lazauskas, B.K. Kirke 41-50

Options for off-grid electrification in the Kingdom of Bhutan

Tshering Dorji, Tania Urmee, Philip Jennings 51-58

Implementing an effective finite difference formulation for borehole heat exchangers into a heat and mass transport code

Darius Mottaghy, Lydia Dijkshoorn 59-71

Power calculations for a passively tuned point absorber wave energy converter on the Oregon coast

Jeffrey A. Oskamp, H. Tuba Özkan-Haller 72-77

School students' knowledge, perceptions, and attitudes toward renewable energy in Jordan

Anas Zyadin, Antero Puhakka, Pirkkoliisa Ahponen, Tarja Cronberg, Paavo Pelkonen 78-85

Wind turbine performance assessment using multi-regime modeling approach

Edzel Lapira, Dustin Brisset, Hossein Davari Ardakani, David Siegel, Jay Lee 86-95

Control strategy for distributed integration of photovoltaic and energy storage systems in DC micro-grids

N. Eghtedarpour, E. Farjah 96-110

The comparison of Trombe wall systems with single glass, double glass and PV panels

Basak Kundakci Koyunbaba, Zerrin Yilmaz 111-118

Distributed generation network design considering ground capacitive couplings

N. El Halabi, M. García-Gracia, M.P. Comech, E. Oyarbide 119-127

An integrated wind-photovoltaic-battery system with reduced power-electronic interface and fast control for grid-tied and off-grid applications

Hamidreza Ghoddami, Mohammad B. Delghavi, Amirnaser Yazdani 128-137

Glycerol as a by-product of biodiesel production in Brazil: Alternatives for the use of unrefined glycerol

Alexandre Bevilacqua Leoneti, Valquiria Aragão-Leoneti, Sonia Valle Walter Borges de Oliveira 138-145

Techno-economic simulation and optimization of residential grid-connected PV system for the Queensland climate

Gang Liu, M.G. Rasul, M.T.O. Amanullah, M.M.K. Khan 146-155

Unsaturated polyester resin blended with MMA as potential host matrix for luminescent solar concentrator

Yun Seng Lim, Chin Kim Lo, Geok Bee The 156-162

Microeolic turbines in the built environment: Influence of the installation site on the potential energy yield

Francesco Balduzzi, Alessandro Bianchini, Lorenzo Ferrari 163-174

Opportunistic maintenance for wind farms considering multi-level imperfect maintenance thresholds

Fangfang Ding, Zhigang Tian 175-182

Wave energy assessments in the Azores islands

Liliana Rusu, C. Guedes Soares 183-196

Geocooling potential of borehole heat exchangers' systems applied to low energy office buildings

D. Pahud, M. Belliardi, P. Caputo 197-204

Technical and economic analysis of a power supply system based on ethanol reforming and PEMFC

Daniel G. Lopes, E.P. da Silva, C.S. Pinto, N.P. Neves Jr., J.C. Camargo, P.F.P. Ferreira, A.L. Furlan, Davi G. Lopes 205-212

Profitability analysis of cropping systems for biogas production on marginal sites in southwestern Germany

Karin Wünsch, Sabine Gruber, Wilhelm Claupein 213-220

FRONT

Making isolated renewable energy systems more reliable

Luiz A. de S. Ribeiro, Osvaldo R. Saavedra, Shigeaki. L. Lima, José G. de Matos, Guilherme Bonan 221-231

Further optical properties of CdX (X = S, Te) compounds under quantum dot diameter effect: Ab initio method

Y. Al-Douri, H. Baaziz, Z. Charifi, R. Khenata, U. Hashim, M. Al-Jassim 232-236

Estimation of environmental effect of PVNB installed along a metro line in China

Minan Gu, Yongsheng Liu, Jingjing Yang, Lin Peng, Chunjiang Zhao, Zhenglong Yang, Jinhuan Yang, Wengjian Fang, Jin Fang, Zhenjie Zhao 237-244

One-dimensional metallic-dielectric (Ag/SiO_2) photonic crystals filter for thermophotovoltaic applications

Samia I. Mostafa, Nadia H. Rafat, Sahar A. El-Naggar 245-250

Renewable Energy Volume 46, 2012

Present situation and potential role of renewable energy in Turkey

Mehmet Çapik, Ali Osman Yılmaz, İbrahim Çavuşoğlu 1-13

Modelling and simulation of a wind-hydrogen CHP system with metal hydride storage

Simone Pedrazzi, Gabriele Zini, Paolo Tartarini 14-22

Regional biomass planning – Helping to realise national renewable energy goals?

N. Kautto, P. Peck 23-30

Gyroscopic effects on a large vertical axis wind turbine mounted on a floating structure

Pierre Blusseau, Minoo H. Patel 31-42

Effect of copper doping on the change in the optical absorption behaviour in NiO thin films

Shweta Moghe, A.D. Acharya, Richa Panda, S.B. Shrivastava, Mohan Gangrade, T. Shripathi, V. Ganesan 43-48

Campo: Generation of regular heliostat fields

Francisco J. Collado, Jesús Guallar

Design and exergy analysis of solar roofs: A viable solution with esthetic appeal to collect solar heat

Daniele Fiaschi, Alberto Bertolli 60-71

Series resistance determination and further characterization of c-Si PV modules

Georgi Hristov Yordanov, Ole-Morten Midtgård, Tor Oskar Saetre 72-80

A macroscopic PEM fuel cell model including water phenomena for vehicle simulation

L. Boulon, K. Agbossou, D. Hissel, P. Sicard, A. Bouscayrol, M.-C. Péra 81-91

Short-term simulation of ground heat exchanger with an improved TRCM

Philippe Pasquier, Denis Marcotte 92-99

Multi-objective optimization of sustainable single-effect water/Lithium Bromide absorption cycle

Berhane H. Gebreslassie, Eckhard A. Groll, Suresh V. Garimella

Numerical simulation of the wake of marine current turbines with a particle method

Grégory Pinon, Paul Mycek, Grégory Germain, Elie Rivoalen 111-126

A non-tubular Stirling engine heater for a micro solar power unit

D. García, J.I. Prieto 127-136

Quantification of biodiesel content in diesel/biodiesel blends by fluorescence spectroscopy: Evaluation of the dependence on biodiesel feedstock

A.R.L. Caires, V.S. Lima, S.L. Oliveira 137-140

FRONT

The impact of state feed-in tariffs and federal tradable quota support policies on grid-connected small wind turbine installed capacity in Australia

S.J. Ross, M.P. McHenry, J. Whale 141-147

Field studies on the effect of built forms on urban wind environments

Yafeng Gao, Runming Yao, Baizhan Li, Erdal Turkbeyler, Qing Luo, Alan Short 148-154

Geometry parameters effect for air-cooled ejector cooling systems with R134a refrigerant

Jia Yan, Wenjian Cai, Yanzhong Li 155-163

Lipid production from hydrolysate of cassava starch by Rhodosporidium toruloides 21167 for biodiesel making

Qi Wang, Feng-Jun Guo, Yan-Jun Rong, Zhen-Ming Chi 164-168

Lipid production from hydrolysate of cassava starch by Rhodosporidium toruloides 21167 for biodiesel making

Qi Wang, Feng-Jun Guo, Yan-Jun Rong, Zhen-Ming Chi 164-168

Condition monitoring of wind turbines: Techniques and methods

Fausto Pedro García Márquez, Andrew Mark Tobias, Jesús María Pinar Pérez, Mayorkinos Papaelias 169-178

Experimental validation of the optimum photovoltaic panels' tilt angle for remote consumers

John Kaldellis, Kosmas Kavadias, Dimitrios Zafirakis

Efficiency assessment of the hydro-power plants in Turkey by using Data Envelopment Analysis

Adnan Sözen, İhsan Alp, Cuma Kilinc 192-202

Controllable hydrogen generation and hydrolysis mechanism of AlLi/$NaBH_4$ system activated by $CoCl_2$ solution

Mei-Qiang Fan, Shu Liu, Wen Qiang Sun, Yong Fei, Hua Pan, Kang-Ying Shu 203-209

Velocity and power density analysis of the wind at Letšeng-la-terae in Lesotho

Tebello Mathaba, Moeketsi Mpholo, Mosuoe Letuma 210-217

Monoalkyl viologens are effective carbohydrate O_2-oxidation catalysts for electrical energy generation by fuel cells

Adam Read, Dane Hansen, Sekoti Aloi, William G. Pitt, Dean R. Wheeler, Gerald D. Watt

Assessment of climate change impacts on energy generation from renewable sources in Croatia

Robert Pašičko, Čedo Branković, Zdenko Šimić 224-231

Protection of interconnected wind turbines against lightning effects: Overvoltages and electromagnetic transients study

R.B. Rodrigues, V.M.F. Mendes, J.P.S. Catalão 232-240

Data mining and wind power prediction: A literature review

Ilhami Colak, Seref Sagiroglu, Mehmet Yesilbudak 241-247

Development of an equilibrium model for the simulation of thermochemical gasification and application to agricultural residues

Emanuele Azzone, Mirko Morini, Michele Pinelli 248-254

Development of an equilibrium model for the simulation of thermochemical gasification and application to agricultural residues

Emanuele Azzone, Mirko Morini, Michele Pinelli 248-254

Comparison of rumen microorganism and digester sludge dominated anaerobic digestion processes for aquatic plants

Zheng-Bo Yue, Jin Wang, Xiao-Meng Liu, Han-Qing Yu 255-258

Thermal and thermohydraulic performance of counter and parallel flow packed bed solar air heaters

Prashant Dhiman, N.S. Thakur, S.R. Chauhan 259-268

FRONT

Development of a free vortex wake method code for offshore floating wind turbines

T. Sebastian, M.A. Lackner 269-275

Modeling and optimization of biogas production on saw dust and other co-substrates using Artificial Neural network and Genetic Algorithm

E.B. Gueguim Kana, J.K. Oloke, A. Lateef, M.O. Adesiyan 276-281

Technical and economic studies on lighting systems: A case for LED lanterns and CFLs in rural Ghana

C.K.K. Sekyere, F.K. Forson, F.O. Akuffo 282-288

Impact of wind speed variations on wind farm economy in the open market conditions

Željko Đurišić, Jovan Mikulović, Iva Babić 289-296

Combining photovoltaics and sound barriers – A feasibility study

Ellen De Schepper, Steven Van Passel, Jean Manca, Theo Thewys 297-303

Renewable Energy Volume 47, 2012

Wave energy potential in Portugal–Assessment based on probabilistic description of ocean waves parameters

R.P.G. Mendes, M.R.A. Calado, S.J.P.S. Mariano 1-8

Analytical performance monitoring of a 142.5 kW_p grid-connected rooftop BIPV system in Singapore

Stephen Wittkopf, Selvam Valliappan, Lingyun Liu, Kian Seng Ang, Seng Chye Jonathan Cheng 9-20

Effects of collector radius and chimney height on power output of a solar chimney power plant with turbines

Jing-yin Li, Peng-hua Guo, Yuan Wang 21-28

The government orientation and use of renewable energy: Case of Europe

Mehmet Efe Biresselioglu, Yasemin Zengin Karaibrahimoglu 29-37

Estimating global solar radiation using common meteorological data in Akure, Nigeria

Muyiwa S. Adaramola 38-44

Improved cookstove as an appropriate technology for the Logone Valley (Chad – Cameroon): Analysis of fuel and cost savings

Mentore Vaccari, Francesco Vitali, Angelo Mazzù 45-54

An inexact robust nonlinear optimization method for energy systems planning under uncertainty

C. Chen, Y.P. Li, G.H. Huang, Y. Zhu 55-66

Design development and performance studies of a novel Single Family Solar Cooker

S. Mahavar, N. Sengar, P. Rajawat, M. Verma, P. Dashora

Heat and fluid flow characteristics of roughened solar air heater ducts – A review

Anil Kumar, R.P. Saini, J.S. Saini 77-94

Realizing the potential of tidal currents and the efficiency of turbine farms in a channel

Ross Vennell 95-102

Peaking strategies for the management of wind-H_2 energy systems

Cristina Azcárate, Rosa Blanco, Fermín Mallor, Raquel Garde, Mónica Aguado 103-111

Fault diagnosis for wind turbine planetary gearboxes via demodulation analysis based on ensemble empirical mode decomposition and energy separation

Zhipeng Feng, Ming Liang, Yi Zhang, Shumin Hou 112-126

Will the development of bioenergy in China create a food security problem? Modeling with fuel ethanol as an example

Fangwei Wu, Deyuan Zhang, Jinghua Zhang

FRONT

Alternative energy scenarios for small islands: A case study from Salina Island (Aeolian Islands, Southern Italy)

Antonio Pietro Francesco Andaloro, Roberta Salomone, Laura Andaloro, Nicola Briguglio, Sergio Sparacia 135-146

Optimization of biogas production from waste activated sludge through serial digestion

E. Athanasoulia, P. Melidis, A. Aivasidis 147-151

Experimental investigations for recycling of silicon and glass from waste photovoltaic modules

Sukmin Kang, Sungyeol Yoo, Jina Lee, Bonghyun Boo, Hojin Ryu

A test on DI diesel engine fueled with methyl esters of used palm oil

H. Sharon, K. Karuppasamy, D.R. Soban Kumar, A. Sundaresan

Zero dimensional finite-time thermodynamic, three zones numerical model of a generic Stirling and its experimental validation

Juliette Bert, Daniela Chrenko, Tonino Sophy, Luis Le Moyne, Frédéric Sirot 167-174

Fault detection and diagnosis within a wind turbine mechanical braking system using condition monitoring

M. Entezami, S. Hillmansen, P. Weston, M.Ph. Papaelias 175-182

Energy requirements during butanol production and in situ recovery by cyclic vacuum

Adriano Pinto Mariano, Rubens Maciel Filho, Thaddeus Chukwuemeka Ezeji 183-187

Estimation of pruned biomass form dendrometric parameters on urban forests: Case study of Sophora japonica

M. Sajdak, B. Velazquez-Marti 188-193

Exergy analysis of solar collectors, from incident radiation to dissipation

Michel Pons 194-202

Renewable Energy Volume 48, 2012

Parametric study and standby behavior of a packed-bed molten salt thermocline thermal storage system

Chao Xu, Zhifeng Wang, Yaling He, Xin Li, Fengwu Bai 1-9

Hydrogen and boric acid production via boron hydrolysis

Bara Wahbeh, Tareq Abu Hamed, Roni Kasher

Neural control for voltage dips ride-through of oscillating water column-based wave energy converter equipped with doubly-fed induction generator

Mikel Alberdi, Modesto Amundarain, Aitor Garrido, Izaskun Garrido 16-26

Small hydropower and carbon credits revenue for an SHP project in national isolated and interconnected systems in Brazil

Regina Mambeli Barros, Geraldo Lúcio Tiago Filho 27-34

Improvement of the mechanical durability of micro porous layer in a proton exchange membrane fuel cell by elimination of surface cracks

Jeong Hwan Chun, Dong Hyun Jo, Sang Gon Kim, Sun Hee Park, Chang Hoon Lee, Sung Hyun Kim 35-41

A probabilistic approach to size step-up transformers for grid connected PV plants

A. Testa, S. De Caro, R. La Torre, T. Scimone 42-51

Inconsistencies between China's wind power development and grid planning: An institutional perspective

Guo-liang Luo, Fei Zhi, Xinying Zhang 52-56

Mesoscale wind speed simulation using CALMET model and reanalysis information: An application to wind potential

Luis Morales, Francisco Lang, Cristian Mattar 57-71

FRONT

A numerical investigation of nacelle anemometry for a HAWT using actuator disc and line models in CFX

Rolf-Erik Keck 72-84

Experimental study of glass to metal seals for parabolic trough receivers

Dongqiang Lei, Zhifeng Wang, Jian Li, Jianbin Li, Zhijian Wang 85-91

Assessing the technical and economic viability of low-cost domestic solar hot water systems (DSHWS) in low-income residential dwellings in Brazil

Helena F. Naspolini, Ricardo Rüther 92-99

Study and optimization of a solar subcritical organic Rankine cycle

Michaël Marion, Ionut Voicu, Anne-Lise Tiffonnet 100-109

Analyzing bearing faults in wind turbines: A data-mining approach

Andrew Kusiak, Anoop Verma 110-116

Dark fermentative hydrogen production by mixed anaerobic cultures: Effect of inoculum treatment methods on hydrogen yield

Subba Rao Chaganti, Dong-Hoon Kim, Jerald A. Lalman 117-121

Variation of performance and emission characteristics of a diesel engine fueled with diesel, rapeseed oil and hazelnut oil methyl ester blends

İsmet Çelikten, Emre Mutlu, Hamit Solmaz 122-126

An optimal operation of wind energy storage system for frequency control based on model predictive control

M. Khalid, A.V. Savkin 127-132

Analysis and optimization of a tethered wave energy converter in irregular waves

Erin E. Bachynski, Yin Lu Young, Ronald W. Yeung 133-145

Prediction of daily global solar irradiation data using Bayesian neural network: A comparative study

R. Yacef, M. Benghanem, A. Mellit 146-154

Thermodynamic comparison of different types of geothermal power plant systems and case studies in China

Chao Luo, Lichang Huang, Yulie Gong, Weibin Ma 155-160

Performance assessment of a novel system using parabolic trough solar collectors for combined cooling, heating, and power production

Fahad A. Al-Sulaiman, Feridun Hamdullahpur, Ibrahim Dincer 161-172

Sustainability principles of the Asian Development Bank's (ADB's) energy policy: An opportunity for greater future synergies

Ishani Mukherjee, Benjamin K. Sovacool 173-182

Investigation of macro-turbulent flow structures interaction with a vertical hydrokinetic river turbine

Amir Hossein Birjandi, John Woods, Eric Louis Bibeau 183-192

Experimental investigations on performance and emission characteristics of Honge oil biodiesel (HOME) operated compression ignition engine

N.R. Banapurmath, P.G. Tewari, V.N. Gaitonde 193-201

Household energy economics in rural Ethiopia: A cost-benefit analysis of biogas energy

S.G. Gwavuya, S. Abele, I. Barfuss, M. Zeller, J. Müller 202-209

The energetics of large tidal turbine arrays

Ross Vennell 210-219

Productivity and economic assessment of wave energy projects through operational simulations

Weber, John Ringwood 220-230

Electricity generation from thermal irradiation governed by GaSb active layer

Yu Wang, Xingwang Zhang, Xiulan Zhang, Nuofu Chen 231-237

FRONT

Economic modelling of the potential of wave energy
Jennifer Hayward, Sam Behrens, Scott McGarry, Peter Osman 238-250

Reliability analysis for hydrokinetic turbine blades
Zhen Hu, Xiaoping Du 251-262

Multi-injection rate thermal response test with forced convection in a groundwater-filled borehole in hard rock
Heiko T. Liebel, Saqib Javed, Gunnar Vistnes 263-268

Intelligent renewable microgrid scheduling controlled by a virtual power producer: A laboratory experience
H.M. Khodr, N. El Halabi, M. García-Gracia 269-275

Wind farm micro-siting by Gaussian particle swarm optimization with local search strategy
Chunqiu Wan, Jun Wang, Geng Yang, Huajie Gu, Xing Zhang 276-286

A method for optimizing the location of wind farms
M.K. McWilliam, G.C. van Kooten, C. Crawford 287-299

Algal cell rupture using high pressure homogenization as a prelude to oil extraction
Nalin Samarasinghe, Sandun Fernando, Ronald Lacey, William Brock Faulkner 300-308

Siting PV plant focusing on the effect of local climate variables on electric energy production – Case study for Araripina and Recife
Chigueru Tiba, Ricardo E. de A. Beltrão 309-317

Electricity supply largely from solar and wind resources in Japan
Haruki Tsuchiya 318-325

Human and animal power – The forgotten renewables
R.J. Fuller, Lu Aye 326-332

DFIG equivalent circuit and mismatch assessment between manufacturer and experimental power-wind speed curves
Filippo Spertino, Paolo Di Leo, Irinel-Sorin Ilie, Gianfranco Chicco 333-343

UVB irradiance and atmospheric optical depth at the Dead Sea basin, Israel: Measurements and modeling
Avraham I. Kudish, Efim G. Evseev 344-0349

The TSE index – A new tool for selecting tidal stream sites in depth-limited regions
G. Iglesias, M. Sánchez, R. Carballo, H. Fernández 350-357

Special framework for the spatial planning & the sustainable development of renewable energy sources
A.E. Baltas, A.N. Dervos

Special framework for the spatial planning & the sustainable development of renewable energy sources
A.E. Baltas, A.N. Dervos 358-363

An experimental and numerical investigation of Shovadan heating and cooling operation
H. Moradi, H. Eskandari 364-368

Dynamics and optimization of the OWC spar buoy wave energy converter
António F.O. Falcão, João C.C. Henriques, José J. Cândido 369-381

Synchronized control of cross-flow-water-turbine-based twin towers
Maria Vallet, Iulian Munteanu, Antoneta Iuliana Bratcu, Seddik Bacha, Daniel Roye 382-391

Wave energy converter control by wave prediction and dynamic programming
Guang Li, George Weiss, Markus Mueller, Stuart Townley, Mike R. Belmont 392-403

Effects of cyclic hydriding–dehydriding reactions of $LaNi_5$ on the thin-wall deformation of metal hydride storage vessels with various configurations
Chih-Kuang Lin, Yen-Chun Chen 404-410

FRONT

A new wind turbine fault diagnosis method based on the local mean decomposition

W.Y. Liu, W.H. Zhang, J.G. Han, G.F. Wang 411-415

On temperature attenuation in staged open-loop wells

B.S. Tilley, T. Baumann 416-423

Thermoeconomic assessment of a sustainable municipal wastewater treatment system

Aysegul Abusoglu, Sinan Demir, Mehmet Kanoglu 424-435

Q. Wang, Z.X. Wang, J.J. Song, Y. Xu, J.Z. Xu 436-447

Understanding the effects of sand and dust accumulation on photovoltaic modules

Neil S. Beattie, Robert S. Moir, Charlslee Chacko, Giorgio Buffoni, Simon H. Roberts, Nicola M. Pearsall 448-452

Photovoltaics in urban environment: A case study for typical apartment buildings in Greece

Nikolaos M. Loulas, Marinos M. Karteris, Petros A. Pilavachi, Agis M. Papadopoulos 453-463

Measuring and modelling illuminance in the semi-arid Northeast of Brazil

C. Tíba, S.S. Leal 464-472

Comparison of fault-ride-through capability of dual and single-rotor wind turbines

E.M. Farahani, N. Hosseinzadeh, M. Ektesabi 473-481

Experimental evaluation of a geothermal heat pump for space heating and domestic hot water simultaneous production

José Fernández-Seara, Alejandro Pereiro, Santiago Bastos, J. Alberto Dopazo 482-488

A GRASP-VNS algorithm for optimal wind-turbine placement in wind farms

Peng-Yeng Yin, Tai-Yuan Wang 489-498

The solar home PV program in Fiji – A successful RESCO approach?

Tania Urmee, David Harries 499-506

Theoretical, numerical and experimental prediction of pump as turbine performance

Sun-Sheng Yang, Shahram Derakhshan, Fan-Yu Kong 507-513

Improved load-frequency control contribution of variable speed variable pitch wind generators

Panayiotis Moutis, Stavros A. Papathanassiou, Nikos D. Hatziargyriou 514-523

Urban energy systems with smart multi-carrier energy networks and renewable energy generation

R. Niemi, J. Mikkola, P.D. Lund 524-536

The development of renewable energy capacities in Serbia: Case study of three small hydropower plants in the "Golija" biosphere reserve with special reference to the landscape heritage

Bosko Josimovic, Tijana Crncevic 537-544

A hybrid model for wind speed prediction using empirical mode decomposition and artificial neural networks

Hui Liu, Chao Chen, Hong-qi Tian, Yan-fei Li 545-556

Efficiency improvement of a tidal current turbine utilizing a larger area of channel

Ki-Pyoung Kim, M. Rafiuddin Ahmed, Young-Ho Lee 557-564

Selection of working fluids for micro-CHP systems with ORC

Guoquan Qiu 565-570

Stochastic optimization of the daily operation of wind farm and pumped-hydro-storage plant

Huajie Ding, Zechun Hu, Yonghua Song 571-578

FRONT