Guest Editorial

Special issue of IJER: The changing energy paradigm, challenges, and new developments (page 111)
A. Heitor Reis and António F. Miguel
Article first published online: 9 JUL 2008 | DOI: 10.1002/er.1426
Research Articles

Science and technology as evolving flow architectures (pages 112–125)
Adrian Bejan
Article first published online: 9 JUL 2008 | DOI: 10.1002/er.1427

Nuclear production of hydrogen: When worlds collide (pages 126–134)
R. B. Duffey
Article first published online: 2 JUN 2008 | DOI: 10.1002/er.1428

Heat transportation from the Bugey power plant (pages 135–143)
N. Le Pierrès, L. Luo, J. Berthiaud and N. Mezet
Article first published online: 18 JUN 2008 | DOI: 10.1002/er.1429

Design of a trigeneration system using a high-temperature fuel cell (pages 144–151)
I. Malico, A. P. Carvalhinho and J. Tenreiro
Article first published online: 20 JUN 2008 | DOI: 10.1002/er.1430

Study on woody biomass Stirling cycle for cold region houses (pages 152–163)
Shin'ya Obara, Shunsuke Kito, Akira Hoshi and Soizi Sasaki
Article first published online: 2 JUN 2008 | DOI: 10.1002/er.1431

Enzymatic hydrolysis of food waste and ethanol fermentation (pages 164–172)
Hee Cheon Moon, Il Seok Song, Jong Chan Kim, Yoshihito Shirai, Dong Hoon Lee, Jung Kwon Kim, Sung Oh Chung, Du Hyun Kim, Kwang Keun Oh and Young Son Cho
Article first published online: 9 JUL 2008 | DOI: 10.1002/er.1432
Special Issue: The changing energy paradigm, challenges and new developments

A model for study and optimization of real-operating refrigeration machines (pages 173–179)
Camelia Petre, Michel Feidt, Monica Costea and Stoian Petrescu
Article first published online: 2 JUN 2008 | DOI: 10.1002/er.1433

Effect of suspended particles on convective heat transfer enhancement (pages 180–185)
M. Aydin, A. Heitor Reis and António F. Miguel
Article first published online: 2 JUN 2008 | DOI: 10.1002/er.1434

Energy lifecycle assessment and environmental impacts of ethanol biofuel (pages 186–193)
Rynosuke Kikuchi, Romeu Gerardo and Sandra M. Santos
Article first published online: 2 JUN 2008 | DOI: 10.1002/er.1435

Transmission performance of fibre-optic bundle for solar lighting (pages 194–204)
C. Kandill, A. K. Turkoglu and K. Ulgen
Article first published online: 20 JUN 2008 | DOI: 10.1002/er.1436

Performance analysis of an endoreversible heat pump system for optimal air-ground or water environmental exergy potential utilization (pages 205–210)
Paulo Canhoto, A. Heitor Reis and António F. Miguel
Article first published online: 19 JUN 2008 | DOI: 10.1002/er.1437

Vascularized materials as designed porous media (pages 211–220)
Sylvie Lorente
Article first published online: 9 JUL 2008 | DOI: 10.1002/er.1438