**Clean energy**

1

Conical spouted bed combustor for clean valorization of sludge wastes from paper industry to generate energy
Chemical Engineering Research and Design, Volume 92, Issue 4, April 2014, Pages 672-678
María J. San José, Sonia Alvarez, Iris García, Francisco J. Peñas
[PDF (1797 K)](file:///I%3A%5C1%5C1.pdf)

2
Supercritical water oxidation with hydrothermal flame as internal heat source: Efficient and clean energy production from waste
The Journal of Supercritical Fluids, In Press, Corrected Proof, Available online 22 September 2014
J.P.S. Queiroz, M.D. Bermejo, F. Mato, M.J. Cocero
[PDF (1251 K)](file:///I%3A%5C1%5C2.pdf)

3
Steam/oxygen gasification system for the production of clean syngas from switchgrass
Fuel, Volume 140, 15 January 2015, Pages 282-292
Karl M. Broer, Patrick J. Woolcock, Patrick A. Johnston, Robert C. Brown
[PDF (1946 K)](file:///I%3A%5C1%5C3.pdf)
4

The effect of particle breakage mechanisms during regrinding on the subsequent cleaner flotation
Minerals Engineering, Volumes 66–68, November 2014, Pages 157-164
Xumeng Chen, Yongjun Peng, Dee Bradshaw
[PDF (1631 K)](file:///I%3A%5C1%5C4.pdf)

5
Proton transfer reaction mass spectrometry technique for the monitoring of volatile sulfur compounds in a fuel cell quality clean-up system
Fuel Processing Technology, Volume 130, February 2015, Pages 136-146
Davide Papurello, Lorenzo Tognana, Andrea Lanzini, Federico Smeacetto, Massimo Santarelli, Ilaria Belcari, Silvia Silvestri, Franco Biasioli
[PDF (1808 K)](file:///I%3A%5C1%5C5.pdf)
6

Clean combustion of different liquid fuels using a novel injector
Experimental Thermal and Fluid Science, Volume 57, September 2014, Pages 275-284
Lulin Jiang, Ajay K. Agrawal, Robert P. Taylor
[PDF (1362 K)](file:///I%3A%5C1%5C6.pdf)

7
Superhydrophobic and oleophilic barium sulfate material for oil spill clean-ups: Fabrication of surface modified sorbent by a one-step interaction approach
Journal of Environmental Chemical Engineering, Volume 2, Issue 4, December 2014, Pages 2078-2084
Manoj Patowary, Rajakumar Ananthakrishnan, Khanindra Pathak
[PDF (1467 K)](file:///I%3A%5C1%5C7.pdf)
8

Nano-based systems for oil spills control and cleanup
Journal of Hazardous Materials, Volume 272, 15 May 2014, Pages 20-27
Antonio F. Avila, Viviane C. Munhoz, Aline M. de Oliveira, Mayara C.G. Santos, Glenda R.B.S. Lacerda, Camila P. Gonçalves
[PDF (3363 K)](file:///I%3A%5C1%5C8.pdf)
9

Cleaner recovery of tetrafluoroethylene by coupling residue-recycled polyimide membrane unit to distillation
Separation and Purification Technology, Volume 124, 18 March 2014, Pages 89-98
Xuehua Ruan, Gaohong He, Baojun Li, Junli Xiao, Yan Dai
[PDF (2929 K)](file:///I%3A%5C1%5C9.pdf)
10

Feasibility studies of de-sulfurization and de-ashing of low grade medium to high sulfur coals by low energy ultrasonication
Fuel, Volume 123, 1 May 2014, Pages 12-18
Binoy K. Saikia, Arju M. Dutta, Bimala P. Baruah
[PDF (1442 K)](file:///I%3A%5C1%5C10.pdf)

11
Understanding the fouling of algogenic organic matter in microfiltration using membrane–foulant interaction energy analysis: Effects of organic hydrophobicity
Colloids and Surfaces B: Biointerfaces, Volume 122, 1 October 2014, Pages 447-456
Weiwei Huang, Huaqiang Chu, Bingzhi Dong
[PDF (1131 K)](file:///I%3A%5C1%5C11.pdf)

12
A new multiple-stage electrocoagulation process on anaerobic digestion effluent to simultaneously reclaim water and clean up biogas
Journal of Hazardous Materials, In Press, Accepted Manuscript, Available online 15 October 2014
Zhiguo Liu, David Stromberg, Xuming Liu, Wei Liao, Yan Liu
[PDF (1006 K)](file:///I%3A%5C1%5C12.pdf)
13

A clean and efficient leaching process for chromite ore
Minerals Engineering, Volume 60, June 2014, Pages 60-68
Gang Chen, Xiaohui Wang, Hao Du, Ying Zhang, Jiajun Wang, Shili Zheng, Yi Zhang
[PDF (2529 K)](file:///I%3A%5C1%5C13.pdf)

14
Energy efficiency of a confectionery plant – Case study
Journal of Food Engineering, Volume 146, February 2015, Pages 182-191
Janusz Wojdalski, Józef Grochowicz, Bogdan Dróżdż, Katarzyna Bartoszewska, Paulina Zdanowska, Adam Kupczyk, Adam Ekielski, Iwona Florczak, Aleksandra Hasny, Grażyna Wójcik
[PDF (490 K)](file:///I%3A%5C1%5C14.pdf)

15
Biogas deep clean-up based on adsorption technologies for Solid Oxide Fuel Cell applications
Chemical Engineering Journal, Volume 255, 1 November 2014, Pages 593-603
N. de Arespacochaga, C. Valderrama, C. Mesa, L. Bouchy, J.L. Cortina
[PDF (937 K)](file:///I%3A%5C1%5C15.pdf)

16
Efficient hierarchically structured composites containing cobalt catalyst for clean synthetic fuel production from Fischer–Tropsch synthesis
Journal of Catalysis, Volume 318, October 2014, Pages 179-192
Yuefeng Liu, Jingjie Luo, Maria Girleanu, Ovidiu Ersen, Cuong Pham-Huu, Christian Meny
[PDF (3482 K)](file:///I%3A%5C1%5C16.pdf)
17

Hydrothermal carbonization of anaerobically digested sludge for solid fuel production and energy recovery
Fuel, Volume 130, 15 August 2014, Pages 120-125
Daegi Kim, Kwanyong Lee, Ki Young Park
[PDF (793 K)](file:///I%3A%5C1%5C17.pdf)
18

Catalytic reforming of volatiles and nitrogen compounds from sewage sludge pyrolysis to clean hydrogen and synthetic gas over a nickel catalyst
Fuel Processing Technology, Volume 123, July 2014, Pages 34-40
Jing-Pei Cao, Peng Shi, Xiao-Yan Zhao, Xian-Yong Wei, Takayuki Takarada
[PDF (694 K)](file:///I%3A%5C1%5C18.pdf)

19
Wind energy and natural gas-based energy storage to promote energy security and lower emissions in island regions
Fuel, Volume 115, January 2014, Pages 203-219
D. Zafirakis, K.J. Chalvatzis
[PDF (2206 K)](file:///I%3A%5C1%5C19.pdf)

20
Comparison of salt adsorption capacity and energy consumption between constant current and constant voltage operation in capacitive deionization
Desalination, Volume 352, 3 November 2014, Pages 52-57
Junil Kang, Taeyoung Kim, Kyusik Jo, Jeyong Yoon
[PDF (732 K)](file:///I%3A%5C1%5C20.pdf)

21
Bioconversion of Jatropha curcas seed cake to hydrogen by a strain of Enterobacter aerogenes
Fuel, Volume 139, 1 January 2015, Pages 715-719
Sofia Lewis Lopes, Rita Fragoso, Elizabeth Duarte, Paula A.S.S. Marques
[PDF (579 K)](file:///I%3A%5C1%5C21.pdf)

22
Thermo-mechanical characterisation of fluoropolymer films for concentrated solar thermal applications
Solar Energy Materials and Solar Cells, Volume 130, November 2014, Pages 615-622
B. Hirschmann, G. Oreski, G. Pinter
[PDF (681 K)](file:///I%3A%5C1%5C22.pdf)
23

Global energy consumption due to friction in trucks and buses
Tribology International, Volume 78, October 2014, Pages 94-114
Kenneth Holmberg, Peter Andersson, Nils-Olof Nylund, Kari Mäkelä, Ali Erdemir
[PDF (1864 K)](file:///I%3A%5C1%5C23.pdf)

24
Energy and economic sustainability of woodchip production by black locust (Robinia pseudoacacia L.) plantations in Italy
Fuel, Volume 140, 15 January 2015, Pages 555-560
Marco Manzone, Sara Bergante, Gianni Facciotto
[PDF (1412 K)](file:///I%3A%5C1%5C24.pdf)

25
Economic evaluation of common reed potential for energy production: A case study in Wuliangsuhai Lake (Inner Mongolia, China)
Biomass and Bioenergy, In Press, Corrected Proof, Available online 22 August 2014
Jan Felix Köbbing, Francesco Patuzzi, Marco Baratieri, Volker Beckmann, Niels Thevs, Stefan Zerbe
[PDF (1376 K)](file:///I%3A%5C1%5C25.pdf)
26

Hot gas clean-up technology of dust particulates with a moving granular bed filter
Applied Thermal Engineering, In Press, Corrected Proof, Available online 18 March 2014
Yi-Shun Chen, Yau-Pin Chyou, Shu-Che Li
[PDF (1497 K)](file:///I%3A%5C1%5C26.pdf)

27
Energy efficiency opportunities in the U.S. commercial baking industry
Journal of Food Engineering, Volume 130, June 2014, Pages 14-22
Peter Therkelsen, Eric Masanet, Ernst Worrell
[PDF (358 K)](file:///I%3A%5C1%5C27.pdf)

28
Sorption of methane in a series of Zn-based MOFs studied by PHSC equation of state
Fluid Phase Equilibria, Volume 381, 15 November 2014, Pages 83-89
Majid Tahmooresi, Fatemeh Sabzi
[PDF (677 K)](file:///I%3A%5C1%5C28.pdf)

29
An experimental investigation of electrostatic precipitation in a wire–cylinder configuration at high temperatures
Powder Technology, Volume 269, January 2015, Pages 166-177
Gang Xiao, Xihui Wang, Guang Yang, Mingjiang Ni, Xiang Gao, Kefa Cen
[PDF (2599 K)](file:///I%3A%5C1%5C29.pdf)
30

Effect of a portable ultra-clean exponential airflow unit on the particle distribution in an operating room
Particuology, In Press, Corrected Proof, Available online 1 October 2014
Sasan Sadrizadeh, Sture Holmberg
[PDF (2721 K)](file:///I%3A%5C1%5C30.pdf)

31
Investment planning in energy considering economic and environmental objectives
Computers & Chemical Engineering, Volume 72, 2 January 2015, Pages 222-232
Julio Flores, Jorge M. Montagna, Aldo Vecchietti
[PDF (1972 K)](file:///I%3A%5C1%5C31.pdf)
32

Direct expansion solar assisted heat pumps – A clean steady state approach for overall performance analysis
Applied Thermal Engineering, Volume 66, Issues 1–2, May 2014, Pages 216-226
Luca A. Tagliafico, Federico Scarpa, Federico Valsuani
[PDF (2115 K)](file:///I%3A%5C1%5C32.pdf)

33
Thermodynamics, kinetics, and activation energy studies of the sorption of chromium(III) and chromium(VI) to a Mn3O4 nanomaterial
Chemical Engineering Journal, Volume 254, 15 October 2014, Pages 374-383
Yvette Cantu, Abril Remes, Alejandra Reyna, Denise Martinez, Jahaziel Villarreal, Hilda Ramos, Samantha Trevino, C. Tamez, A. Martinez, T. Eubanks, J.G. Parsons
[PDF (1112 K)](file:///I%3A%5C1%5C33.pdf)
34

Effect of a high-density coarse-particle layer on the stability of a gas–solid fluidized bed for dry coal beneficiation
International Journal of Mineral Processing, Volume 132, 10 November 2014, Pages 8-16
B. Zhang, Z.F. Luo, Y.M. Zhao, B. Lv, S.L. Song, C.L. Duan, Z.Q. Chen
[PDF (1900 K)](file:///I%3A%5C1%5C34.pdf)

35
Energy efficiency and environmental performance of bioethanol production from sweet sorghum stem based on life cycle analysis
Bioresource Technology, Volume 163, July 2014, Pages 74-81
Mingxin Wang, Yahui Chen, Xunfeng Xia, Jun Li, Jianguo Liu
[PDF (411 K)](file:///I%3A%5C1%5C35.pdf)
36

Viability of off-grid electricity supply using rice husk: A case study from South Asia
Biomass and Bioenergy, Volume 68, September 2014, Pages 44-54
Subhes C. Bhattacharyya
[PDF (2212 K)](file:///I%3A%5C1%5C36.pdf)
37

Methane Reforming in a Small-Scaled Plasma Reactor – Industrial Application of a Plasma Process from the Viewpoint of the Environmental Profile
Chemical Engineering Journal, In Press, Accepted Manuscript, Available online 16 October 2014
Qi Wang, Berta Spasova, Volker Hessel, Gunther Kolb
[PDF (1127 K)](file:///I%3A%5C1%5C37.pdf)

38
Effect of particle size on cleaning of high-sulphur fine coal by oil agglomeration
Fuel Processing Technology, Volume 128, December 2014, Pages 211-219
Ercan Sahinoglu, Tuncay Uslu
[PDF (2667 K)](file:///I%3A%5C1%5C38.pdf)
39

Influence of organic, colloidal and combined fouling on NF rejection of NaCl and carbamazepine: Role of solute–foulant–membrane interactions and cake-enhanced concentration polarisation
Journal of Membrane Science, Volume 471, 1 December 2014, Pages 35-46
T.O. Mahlangu, E.M.V. Hoek, B.B. Mamba, A.R.D. Verliefde
[PDF (587 K)](file:///I%3A%5C1%5C39.pdf)

40
Clean combustion in gas turbine engines using Butyl Nonanoate biofuel
Fuel, Volume 116, 15 January 2014, Pages 522-528
Ahmed E.E. Khalil, Ashwani K. Gupta
[PDF (1758 K)](file:///I%3A%5C1%5C40.pdf)

41
Ultrasonic assisted cleaning of high sulphur Indian coals in water and mixed alkali
Fuel Processing Technology, Volume 123, July 2014, Pages 107-113
Binoy K. Saikia, Arju M. Dutta, Lakshi Saikia, Shahid Ahmed, Bimala P. Baruah
[PDF (898 K)](file:///I%3A%5C1%5C41.pdf)
42

Graphene-based nanomaterial: The state-of-the-art material for cutting edge desalination technology
Desalination, In Press, Corrected Proof, Available online 23 October 2014
P.S. Goh, A.F. Ismail
[PDF (3595 K)](file:///I%3A%5C1%5C42.pdf)
43

The feasibility of co-firing biomass for electricity in Missouri
Biomass and Bioenergy, Volume 69, October 2014, Pages 12-20
Zuoming Liu, Ira Altman, Thomas G. Johnson
[PDF (292 K)](file:///I%3A%5C1%5C43.pdf)

44
Fluidized bed desliming in fine particle flotation – Part III flotation of difficult to clean coal
Minerals Engineering, Volumes 66–68, November 2014, Pages 94-101
K.P. Galvin, N.G. Harvey, J.E. Dickinson
[PDF (931 K)](file:///I%3A%5C1%5C44.pdf)
45

Improved performance of the natural-gas-sweetening Benfield-HiPure process using process simulation
Fuel Processing Technology, Volume 127, November 2014, Pages 20-25
Abdallah Sofiane Berrouk, Richard Ochieng
[PDF (715 K)](file:///I%3A%5C1%5C45.pdf)
46

Dissolving grade eco-clean cellulose pulps by integrated fractionation of cardoon (Cynara cardunculus L.) stalk biomass
Chemical Engineering Research and Design, In Press, Corrected Proof, Available online 10 January 2014
Anatoly A. Shatalov, Helena Pereira
[PDF (2198 K)](file:///I%3A%5C1%5C46.pdf)
47

Catalytic DPF microwave assisted active regeneration
Fuel, Volume 140, 15 January 2015, Pages 50-61
Vincenzo Palma, Paolo Ciambelli, Eugenio Meloni, Agusti Sin
[PDF (4300 K)](file:///I%3A%5C1%5C47.pdf)

48
Combined molten salt-Ni/Al2O3 as synergistic medium for high-quality syngas production
Chemical Engineering Journal, In Press, Accepted Manuscript, Available online 13 October 2014
Sakhon Ratchahat, Satoshi Kodama, Wiwut Tanthapanichakoon, Hidetoshi Sekiguchi
[PDF (591 K)](file:///I%3A%5C1%5C48.pdf)
49

Oxygen transfer model development based on activated sludge and clean water in diffused aerated cylindrical tanks
Chemical Engineering Journal, Volume 243, 1 May 2014, Pages 51-59
Erika Pittoors, Yaping Guo, Stijn W.H. Van Hulle
[PDF (850 K)](file:///I%3A%5C1%5C49.pdf)
50

High performance dye-sensitized solar cell by using porous polyaniline nanotubes as counter electrode
Chemical Engineering Journal, Volume 260, 15 January 2015, Pages 393-398
Kyung-Hee Park, Seok Jae Kim, Ruth Gomes, Asim Bhaumik
[PDF (1595 K)](file:///I%3A%5C1%5C50.pdf)
51

Rapeseed for energy production: Environmental impacts and cultivation methods
Biomass and Bioenergy, Volume 69, October 2014, Pages 1-11
Nadia Palmieri, Maria Bonaventura Forleo, Alessandro Suardi, Domenico Coaloa, Luigi Pari
[PDF (1310 K)](file:///I%3A%5C1%5C51.pdf)
52

Reducing the cost, environmental impact and energy consumption of biofuel processes through heat integration
Chemical Engineering Research and Design, In Press, Corrected Proof, Available online 24 June 2014
Robert Brunet, Dieter Boer, Gonzalo Guillén-Gosálbez, Laureano Jiménez
[PDF (1738 K)](file:///I%3A%5C1%5C52.pdf)
53

Influence of high gravity process conditions on the environmental impact of ethanol production from wheat straw
Bioresource Technology, Volume 173, December 2014, Pages 148-158
Matty Janssen, Anne-Marie Tillman, David Cannella, Henning Jørgensen
[PDF (1339 K)](file:///I%3A%5C1%5C53.pdf)
54

Co-gasification of blended lignite and wood pellets in a dual fluidized bed steam gasifier: The influence of lignite to fuel ratio on NH3 and H2S concentrations in the producer gas
Fuel, Volume 139, 1 January 2015, Pages 494-501
J. Hongrapipat, W.L. Saw, S. Pang
[PDF (730 K)](file:///I%3A%5C1%5C54.pdf)

55
Energy efficiency improvements utilising mass flow control and a ring topology in a district heating network
Applied Thermal Engineering, Volume 69, Issues 1–2, August 2014, Pages 86-95
Tatu Laajalehto, Maunu Kuosa, Tapio Mäkilä, Markku Lampinen, Risto Lahdelma
[PDF (980 K)](file:///I%3A%5C1%5C55.pdf)

56
Where does solar-aided seawater desalination make sense? A method for identifying sustainable sites
Desalination, Volume 339, 15 April 2014, Pages 10-17
Emily A. Grubert, Ashlynn S. Stillwell, Michael E. Webber
[PDF (569 K)](file:///I%3A%5C1%5C56.pdf)
57

Process intensification using energy-free highly enriched air: Application to seawater desalination plants
Chemical Engineering and Processing: Process Intensification, Volume 79, May 2014, Pages 40-47
Flavio Manenti, Carlo Pirola
[PDF (1207 K)](file:///I%3A%5C1%5C57.pdf)

58
An innovative photoelectrochemical lab device for solar water splitting
Solar Energy Materials and Solar Cells, Volume 128, September 2014, Pages 399-410
Tânia Lopes, Paula Dias, Luísa Andrade, Adélio Mendes
[PDF (3371 K)](file:///I%3A%5C1%5C58.pdf)

59
Quantification of trace element emissions from low-carbon emission energy sources: (I) Ca-looping cycle for post-combustion CO2 capture and (II) fixed bed, air blown down-draft gasifier
Chemical Engineering Science, Volume 107, 7 April 2014, Pages 13-29
A. Cotton, K.N. Finney, K. Patchigolla, R.E.A. Eatwell-Hall, J.E. Oakey, J. Swithenbank, V. Sharifi
[PDF (4131 K)](file:///I%3A%5C1%5C59.pdf)
60

Sustainable Photosynthetic Biocathode in Microbial Desalination Cells
Chemical Engineering Journal, In Press, Accepted Manuscript, Available online 22 October 2014
Bahareh Kokabian, Veera Gnaneswar Gude
[PDF (1296 K)](file:///I%3A%5C1%5C60.pdf)
61

Conceptual process design of a CaO/Ca(OH)2 thermochemical energy storage system using fluidized bed reactors
Applied Thermal Engineering, Volume 73, Issue 1, 5 December 2014, Pages 1085-1092
Y.A. Criado, M. Alonso, J.C. Abanades, Z. Anxionnaz-Minvielle
[PDF (731 K)](file:///I%3A%5C1%5C61.pdf)

62
CeO2-supported Pt/Ni catalyst for the renewable and clean H2 production via ethanol steam reforming
Applied Catalysis B: Environmental, Volume 145, February 2014, Pages 73-84
Vincenzo Palma, Filomena Castaldo, Paolo Ciambelli, Gaetano Iaquaniello
[PDF (3099 K)](file:///I%3A%5C1%5C62.pdf)
63

Novel design of a multitube microbial fuel cell (UM2FC) for energy recovery and treatment of membrane concentrates
Biomass and Bioenergy, Volume 69, October 2014, Pages 58-65
Emre Oğuz Köroğlu, Derya Yilmaz Baysoy, Afşin Y. Çetinkaya, Bestamin Özkaya, Mehmet Çakmakci
[PDF (1131 K)](file:///I%3A%5C1%5C63.pdf)

64
Scheduling and energy – Industrial challenges and opportunities
Computers & Chemical Engineering, Volume 72, 2 January 2015, Pages 183-198
Lennart Merkert, Iiro Harjunkoski, Alf Isaksson, Simo Säynevirta, Antti Saarela, Guido Sand
[PDF (4151 K)](file:///I%3A%5C1%5C64.pdf)
65

Optimization of Improvable Flows by combining BAT Analysis and process simulation
Chemical Engineering Research and Design, Volume 92, Issue 10, October 2014, Pages 1976-1987
Laura Cristóbal Andrade, Miguel A. Bernal Pampín, M.C. Taboada Gómez, Pastora M. Bello Bugallo
[PDF (1712 K)](file:///I%3A%5C1%5C65.pdf)
66

Preparation of surface energy controlled automotive clearcoats loaded with functional silicon additives: Studying the resistance against tree gum attack
Journal of Industrial and Engineering Chemistry, Volume 20, Issue 4, 25 July 2014, Pages 1402-1410
N. Naseh, M. Mohseni, B. Ramezanzadeh
[PDF (2025 K)](file:///I%3A%5C1%5C66.pdf)
67

Energy flow in the soybean biodiesel production chain using ethanol as solvent extraction of oil from soybeans
Biomass and Bioenergy, Volume 66, July 2014, Pages 39-48
Naiane Sangaletti-Gerhard, Thiago Libório Romanelli, Thais Maria Ferreira de Souza Vieira, Rodrigo Navia, Marisa Aparecida Bismara Regitano-d'Arce
[PDF (499 K)](file:///I%3A%5C1%5C67.pdf)

68
Processing municipal wastewaters by forward osmosis using CTA membrane
Journal of Membrane Science, Volume 468, 15 October 2014, Pages 269-275
Xiwang Zhang, Zhiyao Ning, David K. Wang, João C. Diniz da Costa
[PDF (1488 K)](file:///I%3A%5C1%5C68.pdf)

69
Heat integration and exergy analysis for a supercritical high-ash coal-fired power plant integrated with a post-combustion carbon capture process
Fuel, Volume 134, 15 October 2014, Pages 126-139
Dawid P. Hanak, Chechet Biliyok, Hoi Yeung, Ryszard Białecki
[PDF (1861 K)](file:///I%3A%5C1%5C69.pdf)
70

Hot treatment and upgrading of syngas obtained by co-gasification of coal and wastes
Fuel Processing Technology, Volume 126, October 2014, Pages 19-29
Filomena Pinto, Rui Neto André, Carlos Carolino, Miguel Miranda
[PDF (717 K)](file:///I%3A%5C1%5C70.pdf)
71

A new metallurgical process for the clean utilization of chromite ore
International Journal of Mineral Processing, Volume 131, 10 September 2014, Pages 58-68
Gang Chen, Xiaohui Wang, Jiajun Wang, Hao Du, Ying Zhang, Shi-Li Zheng, Yi Zhang
[PDF (2232 K)](file:///I%3A%5C1%5C71.pdf)

72
Dense composite electrolyte hollow fibre membranes for high temperature CO2 separation
Separation and Purification Technology, Volume 132, 20 August 2014, Pages 712-718
Shujuan Zhuang, Ying Li, Meng Zuo, Xiaoyao Tan, Bo Meng, Naitao Yang, Shaomin Liu
[PDF (1674 K)](file:///I%3A%5C1%5C72.pdf)
73

New insights into intermediate-temperature solid oxide fuel cells with oxygen-ion conducting electrolyte act as a catalyst for NO decomposition
Applied Catalysis B: Environmental, Volumes 158–159, October 2014, Pages 418-425
Yun-Fei Bu, Dong Ding, Lu Gan, Xun-Hui Xiong, Wei Cai, Wen-Yi Tan, Qin Zhong
[PDF (2163 K)](file:///I%3A%5C1%5C73.pdf)
74

Biogas Production in the Anaerobic Digestion of Paper Sludge
APCBEE Procedia, Volume 9, 2014, Pages 65-69
Cindy Priadi, Dwica Wulandari, Iftita Rahmatika, Setyo Sarwanto Moersidik
[PDF (365 K)](file:///I%3A%5C1%5C74.pdf)
75

Prototype composite membranes of partially reduced graphene oxide/TiO2 for photocatalytic ultrafiltration water treatment under visible light
Applied Catalysis B: Environmental, Volumes 158–159, October 2014, Pages 361-372
Chrysoula P. Athanasekou, Sergio Morales-Torres, Vlassis Likodimos, George Em. Romanos, Luisa M. Pastrana-Martinez, Polycarpos Falaras, Dionysios D. Dionysiou, Joaquim L. Faria, José L. Figueiredo, Adrián M.T. Silva
[PDF (1244 K)](file:///I%3A%5C1%5C75.pdf)

76
Magnetic cross-linked enzyme aggregates (CLEAs): A novel concept towards carrier free immobilization of lignocellulolytic enzymes
Enzyme and Microbial Technology, Volumes 61–62, July–August 2014, Pages 17-27
Abhishek Bhattacharya, Brett I. Pletschke
[PDF (2499 K)](file:///I%3A%5C1%5C76.pdf)
77

Mechanistic and structural investigation of LixMnO2 cathodes during cycling in Li-ion batteries
Electrochimica Acta, Volume 137, 10 August 2014, Pages 736-743
Wesley M. Dose, Neeraj Sharma, Scott W. Donne
[PDF (930 K)](file:///I%3A%5C1%5C77.pdf)

78
Pressure retarded osmosis dual-layer hollow fiber membranes developed by co-casting method and ammonium persulfate (APS) treatment
Journal of Membrane Science, Volume 469, 1 November 2014, Pages 488-498
Feng-Jiang Fu, Shi-Peng Sun, Sui Zhang, Tai-Shung Chung
[PDF (1991 K)](file:///I%3A%5C1%5C78.pdf)
79

Production of dimethylether (DME) as a clean fuel using sonochemically prepared CuO and/or ZnO-modified γ-alumina catalysts
Journal of Fuel Chemistry and Technology, Volume 42, Issue 3, March 2014, Pages 350-356
Sameh M.K. Aboul-Fotouh
[PDF (3194 K)](file:///I%3A%5C1%5C79.pdf)
80

Investigations to convert CO2, NaCl and H2O into Na2CO3 and HCl by thermal solar energy with high solar efficiency
Journal of CO2 Utilization, Volume 7, September 2014, Pages 11-18
Martin Forster
[PDF (1079 K)](file:///I%3A%5C1%5C80.pdf)
81

Is progress in energy-efficient comminution doomed?
Minerals Engineering, In Press, Corrected Proof, Available online 16 September 2014
Tim Napier-Munn
[PDF (337 K)](file:///I%3A%5C1%5C81.pdf)

82
Solvent effects on arc discharge fabrication of durable silver nanopowder and its application as a recyclable catalyst for elimination of toxic p-nitrophenol
Chemical Engineering Journal, Volume 257, 1 December 2014, Pages 105-111
M. Miranzadeh, M.Z. Kassaee
[PDF (1859 K)](file:///I%3A%5C1%5C82.pdf)

83
Superior Performance Asymmetric Supercapacitors Based on Flake-like Co/Al Hydrotalcite and Graphene
Electrochimica Acta, Volume 143, 10 October 2014, Pages 331-339
Worong Lin, Wendan Yu, Zhaoxia Hu, Wenpeng Ouyang, Xiaofeng Shao, Ruchun Li, Ding Sheng Yuan
[PDF (2201 K)](file:///I%3A%5C1%5C83.pdf)

84
Nitrogen transformation during gasification of livestock compost over transition metal and Ca-based catalysts
Fuel, Volume 140, 15 January 2015, Pages 477-483
Jing-Pei Cao, Xin Huang, Xiao-Yan Zhao, Xian-Yong Wei, Takayuki Takarada
[PDF (700 K)](file:///I%3A%5C1%5C84.pdf)
85

Visible light active TiO2 photocatalytic filtration membranes with improved permeability and low energy consumption
Catalysis Today, Volume 224, 1 April 2014, Pages 56-69
N.G. Moustakas, F.K. Katsaros, A.G. Kontos, G.Em. Romanos, D.D. Dionysiou, P. Falaras
[PDF (3381 K)](file:///I%3A%5C1%5C85.pdf)

86
Development of a Combustor to burn raw producer gas
Fuel Processing Technology, Volume 126, October 2014, Pages 76-87
Srinivasan Dattarajan, Ramsatish Kaluri, G. Sridhar
[PDF (1307 K)](file:///I%3A%5C1%5C86.pdf)
87

Investigation on the reforming reactions of coke-oven-gas to H2 and CO in oxygen-permeable membrane reactor
Journal of Membrane Science, Volume 470, 15 November 2014, Pages 197-204
Zhibin Yang, Yuwen Zhang, Weizhong Ding
[PDF (1129 K)](file:///I%3A%5C1%5C87.pdf)

88
Industrial wastewater treatment by electrocoagulation–electrooxidation processes powered by solar cells
Fuel, In Press, Corrected Proof, Available online 7 October 2014
Alfredo García-García, Verónica Martínez-Miranda, Iván G. Martínez-Cienfuegos, Perla Tatiana Almazán-Sánchez, Monserrat Castañeda-Juárez, Ivonne Linares-Hernández
[PDF (1357 K)](file:///I%3A%5C1%5C88.pdf)

89
Assessment of energy crops alternative to maize for biogas production in the Greater Region
Bioresource Technology, Volume 166, August 2014, Pages 358-367
Frédéric Mayer, Patrick A. Gerin, Anaïs Noo, Sébastien Lemaigre, Didier Stilmant, Thomas Schmit, Nathael Leclech, Luc Ruelle, Jerome Gennen, Herbert von Francken-Welz, Guy Foucart, Jos Flammang, Marc Weyland, Philippe Delfosse
[PDF (580 K)](file:///I%3A%5C1%5C89.pdf)

90
Source apportionment of carbon during gasification of coal–biomass blends using stable carbon isotope analysis
Fuel Processing Technology, Volume 128, December 2014, Pages 83-93
Abhijit Bhagavatula, Gerald Huffman, Naresh Shah, Christopher Romanek, Rick Honaker
[PDF (1251 K)](file:///I%3A%5C1%5C90.pdf)

91
Optimization and modeling of an electrolyzed oxidizing water based Clean-In-Place technique for farm milking systems using a pilot-scale milking system
Journal of Food Engineering, Volume 135, August 2014, Pages 1-10
Satyanarayan R.S. Dev, Ali Demirci, Robert E. Graves, Virendra M. Puri
[PDF (1433 K)](file:///I%3A%5C1%5C91.pdf)
92

Dual stage PRO process for power generation from different feed resources
Desalination, Volume 352, 3 November 2014, Pages 118-127
Ali Altaee, Adel Sharif, Guillermo Zaragoza, Nidal Hilal
[PDF (921 K)](file:///I%3A%5C1%5C92.pdf)
93

Energy and cost analyses of a hybrid renewable microgeneration system serving multiple residential and small office buildings
Applied Thermal Engineering, Volume 65, Issues 1–2, April 2014, Pages 477-486
L. Yang, E. Entchev, M. Ghorab, E.J. Lee, E.C. Kang
[PDF (1583 K)](file:///I%3A%5C1%5C93.pdf)

94
Heterostructured cathode with graded bandgap window-layer for photon-enhanced thermionic emission solar energy converters
Solar Energy Materials and Solar Cells, Volume 132, January 2015, Pages 410-417
Yang Yang, Wenzheng Yang, Chuandong Sun
[PDF (1439 K)](file:///I%3A%5C1%5C94.pdf)
95

A general, resistance-in-series, salt- and water flux models for forward osmosis and pressure-retarded osmosis for energy generation
Journal of Membrane Science, Volume 460, 15 June 2014, Pages 71-81
Endre Nagy
[PDF (886 K)](file:///I%3A%5C1%5C95.pdf)
96

Effect of elevated temperature and pressure on the leaching characteristics of Indian coals
Fuel, Volume 140, 15 January 2015, Pages 302-308
P.S. Dash, R.K. Lingam, S. Santosh Kumar, A. Suresh, P.K. Banerjee, S. Ganguly
[PDF (1025 K)](file:///I%3A%5C1%5C96.pdf)

97
Productivity and cost of harvesting a stemwood biomass product from integrated cut-to-length harvest operations in Australian Pinus radiata plantations
Biomass and Bioenergy, Volume 66, July 2014, Pages 93-102
D. Walsh, M. Strandgard
[PDF (686 K)](file:///I%3A%5C1%5C97.pdf)
98

Increasing CO2 carrying capacity of dolomite by means of thermal stabilization by triggered calcination
Chemical Engineering Journal, Volume 262, 15 February 2015, Pages 18-28
Carlos Herce, Stefano Stendardo, Cristóbal Cortés
[PDF (1265 K)](file:///I%3A%5C1%5C98.pdf)
99

Co-gasification of coal–petcoke and biomass in the Puertollano IGCC power plant
Chemical Engineering Research and Design, Volume 92, Issue 8, August 2014, Pages 1428-1440
Daniele Sofia, Pilar Coca Llano, Aristide Giuliano, Mariola Iborra Hernández, Francisco García Peña, Diego Barletta
[PDF (1855 K)](file:///I%3A%5C1%5C99.pdf)
100

The separation of chalcopyrite and chalcocite from pyrite in cleaner flotation after regrinding
Minerals Engineering, Volume 58, April 2014, Pages 64-72
Xumeng Chen, Yongjun Peng, Dee Bradshaw
[PDF (1255 K)](file:///I%3A%5C1%5C100.pdf)