

Journal of Clean Energy Technologies

CONTENTS

Volume 2, Number 1, January 2014

- Blade Number Effect for A Horizontal Axis River Current Turbine at A Low Velocity Condition Utilizing A Parametric Study with Mathematical Model of Blade Element Momentum.....1
Ridway Balaka, Aditya Rachman, and Jenny Delly
- Erosion on the Secondary Canal of Reclaimed Agriculture Tidal Lowlands Telang I Banyuasin Regency.....6
A. Syarifudin, M. S. Imanudin, A. S. Moerwanto, M. Yazid, and F. X. Suryadi
- Submerged Macrophyte Restoration Differentiation for a Waterfront Body.....9
Hua Wang, Fengqiang Ji, Jing Qin, and Yiyi Zhou
- Electrocoagulation of Landfill Leachate with Monopolar Aluminum Electrodes.....15
Tezcan Un U. and Oduncu E.
- Modified Starch–Enhanced Ultrafiltration for Chromium (VI) Removal.....18
Patcharin Racho and Pinitta Phalathip
- Treatment Wetlands as Ecotechnological Tools for Regenerative Reclamation of Wastewater: Experiences from Working with Kalyani Model.....23
Jayanta K. Biswas and Sukanta Rana
- A Study of the Factors Influencing the Optimal Size and Site of Distributed Generations.....28
Soma Biswas, S. K. Goswami, and A. Chatterjee
- CO₂ Capture on Metal-Organic Framework and Graphene Oxide Composite Using a High-Pressure Static Adsorption Apparatus.....34
Yunxia Zhao, Yan Cao, and Qin Zhong
- Photoelectrochemical Characteristics of N-and S-doped TiO₂ with Coumarin.....38
Chiu-Hsuan Lee, Je-Lueng Shie, Ching-Yi Tsai, and Ching-Yuan Chang
- A Global Atmospheric Contaminant Transport Model Based on 3D Advection-Diffusion Equation.....43
Ting Zhang, Ning Xu, Longfei Guo, Yi Huang, and Yong Bai
- Monitoring of the World’s Environmental Risk Based on MPCA.....48
Shu Pang, Yiyun Han, and Xiaodong Yuan
- Full Factorial Design of Screening Experiments for Biosurfactant Enhanced Remediation of Hydrophobic Substances in Soil.....51
L. Timma, K. Sams, S. Valtere, J. Vilgerts, and D. Blumberga
- Bioethanol Program in Brazil: Production and Utilization of Trade-Offs for CO₂ Abatement.....57
Mauro D. Berni and Paulo C. Manduca
- Renewable Energy Types.....61
Nada Kh. M. A. Alrikabi

Research and Application of WSN Technology in the Contact Points of Distribution Transformer.....	65
<i>Yan-Fei Su, Chen-Xu Zhao, Long Xu, Huan-Ping Ye, and Heng Xu</i>	
Reliable Intelligent Distribution Network Structure.....	69
<i>Ninghui Guo and Lijun Qin</i>	
Smart Home Electricity Management in the Context of Local Power Resources and Smart Grid.....	73
<i>Weiliang Zhao, Lan Ding, Paul Cooper, and Pascal Perez</i>	
A Realization of Power Cable Patrol System Based on GIS and 3G.....	80
<i>Zhangwei Li and Shoucai Su</i>	
Distribution Network Condition Based Maintenance Application Present Situation and Development.....	84
<i>Su Yan-Fei, Zhao Changqing, Zhao Chenxu, Xu Long, and Xu Heng</i>	
Advanced Technologies Implementation Framework for a Smart Grid.....	88
<i>Nampuraja Enose</i>	
Intelligent Connector (I-Connector) Design and Demand Response in Smart Grid.....	95
<i>Dung Nguyen, Hyungtaek Chang, Claudio Talarico, Anita Annamalai, He Zhou, and Janet M. Roveda</i>	
An Implementation of Pipelined Radix-4 FFT Architecture on FPGAs.....	101
<i>Jiang Wang and Leif Arne Ronningen</i>	