

Journal of Clean Energy Technologies

CONTENTS

Volume 6, Number 2, March 2018

• Generator Systems and Electrical Equipment

Active and Reactive Power Control of Doubly Fed Induction Generator Wind Turbines to Answer Grid Codes Requirements..... 101

Mbarek Taleb and Mohamed Cherkaoui

Numerical Study about Improving the Proficiency of an Earth Air Heat Exchanger System (EAHE) Employing Ground Cover Material..... 106

Haitham Alkhalaf, Md Najib Ibrahim, and Wanglin Yan

Self-Sufficient Wind Turbine Condition Monitoring System..... 112

Rana N. Badran, Ihab Adly, and Hani Ghali

An Improved Dynamic Modeling of Permanent Magnet Synchronous Machine with Torque Ripple Characteristics 117

S. A. Kim, J. H. Song, S. W. Han, and Y. H. Cho

Development of a 200-kW Organic Rankine Cycle Power System for Low-Grade Waste Heat Recovery 121

Taehong Sung and Kyung Chun Kim

• Solar Energy Utilization and Development

EMC Evaluation of Off-Grid and Grid-Tied Photovoltaic Systems for the Brazilian Scenario..... 125

H. J. Loschi, L. A. S. Ferreira, D. A. Nascimento, P. E. R. Cardoso, S. R. M. Carvalho, and F. D. Conte

A life Cycle Cost Analysis and Environmental Assessment on the Photovoltaic System in Buildings: Two Case Studies in Iran..... 134

Hashem Amini Toosi, Zahra Balador, Morten Gjerde, and Ali Vakili-Ardebili

Multi-Effect Solar Water Still with Evaporation Pressure Self-Reduction Capability 139

Nabil Elsharif and Khamid Mahkamov

• Battery Technology and Energy Storage

Linear and Nonlinear Wave-Current Interactions over Constant Water Depth 143

X. Feng

Enhancing the Performance of Sediment Microbial Fuel Cell Using Graphene Oxide – Zeolite Modified Anode and V₂O₅ Catalyzed Cathode..... 150

Md. T. Noori, D. Paul, M. M. Ghangrekar, and C. K. Mukherjee

Electricity Production during Distillery Wastewater Treatment in a Microbial Fuel Cell Equipped with Low Cost PVA-Nafion-Borosilicate Membrane 155

B. R. Tiwari and M. M. Ghangrekar

• Energy and Environment

Green Campus Environmental Design Based on Sustainable Theory..... 159

Feng Qian and Li Yang

Industrial Effects of Reducing Greenhouse Gas Emissions: A Case Study of Chemical Material and Product Industry in Taiwan 165

Yu-Wen Su

Ecological Risk Assessment Approach of Offshore Macro-engineering Project Based on US Environmental Protection Agency Framework 171

Zijian Guo, Yuexin Zhang, Yun Peng, and Wenyuan Wang

Is There an Environmental Kuznets Curve in MENAP Countries? Quadratic and Cubic Polynomial Random Coefficient Panel Regression Model 178

Aynur Pala

Density and Viscosity Measurements for Olive Oil Biodiesel, Diesel Fuel and n-Butyl Alcohol Ternary Blends183

Mert Gülüm and Atilla Bilgin