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*

  
  *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 V_2O_5 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

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 Blends .................................................................................................................................................. 183

Mert Gülüm and Atilla Bilgin