

Table of Contents

Volume 6 Number 11

November 2018

Parameter Analysis and Numerical Simulation of Hydrogen Production by Steam Reforming of Dimethyl Ether

L. Guo, C. Li.....1

Flexible Co-Combustion of High Ratios of Sustainable Biomass with Coal in Oxy-CFB Boiler for CO₂ Capture

J. A. G. Bravo, R. Garcia, E. Cadena.....12

Analysis of the Energy Efficiency of Diesel Oil Consumption in the Brazilian Iron Ore Mining Company

E. Z. Fernandes, E. M. Leal, R. L. Figueiredo, G. de Paula dos Reis.....23

Stabilization of Wind Farm by Using PMSG Based Wind Generator Taking Grid Codes into Consideration

M. R. Hazari, M. A. Mannan, A. Umemura, R. Takahashi, J. Tamura.....40

Piezoelectric Power Harvesting via Acoustic-Pressure Driven by Low-Speed Wind-Force with Resonating-Tube and Wind-Collector

S. Deguchi, H. Taguchi, H. Arimura, N. Kobayashi, N. Isu, K. Takagi, T. Inoue, T. Nozoe, S. Saito, T. Sano.....53

Piezoelectric Power Harvesting Process via Phase Changes of Low-Boiling-Point Medium Together with Water for Recovering Low-Temperature Heats

S. Deguchi, A. Miyajima, H. Arimura, H. Banno, N. Kobayashi, N. Isu, K. Takagi, T. Inoue, T. Nozoe, S. Saito, T. Sano.....65

Further Stabilization and Power Density Improvement of Stack-Type Thermoelectric Power Generating Module with Biphasic Medium by Using Various Flexible Metals as Electrodes

S. Deguchi, S. Imaizumi, H. Arimura, K. Sawada, N. Kobayashi, N. Isu, K. Sakai, K. Kimoto.....78

Numerical Accuracy of the Kiva4 Code under Different Ignition Timing on the Combustion Characteristics of Gasoline in a Spark Ignition Engine

J. Lungu, L. Siwale, E. Luwaya.....87

Design of Steam Turbine for Electric Power Production Using Heat Energy from Palm Kernel Shell

B. Kareem, T. Ewetumo, M. K. Adeyeri, A. Oyedunji, O. E. Olatunji.....111