

International Journal of Chemical Engineering and Applications

CONTENTS

Volume 6, Number 4, August 2015

• Chemical Kinetics

Intrinsic Kinetic Modeling of Hydrogen Production by Photocatalytic Water Splitting Using Cadmium Zinc Sulfide Catalyst.....220
Hyacinth Mae G. Tambago and Rizalinda L. de Leon

Synthesis of Hydrotalcite from Bittern, and Its Removal Abilities of Phosphate and Nitrate.....228
Takaaki Wajima

Optimization of Enzymatic Saccharification of Alkali Pretreated *Typha angustifolia* for Glucose Production
.....232
Arrisa Sopajarn and Chayanoot Sangwichien

• Electrochemistry

Theoretical Study on Current-Voltage Characteristics of Oxygen Reduction Reaction near Platinum Surfaces
.....237
Sawanya Suwannawong, Kentaro Doi, and Satoyuki Kawano

A Theoretical Model of Overpotential at Interfaces in Polymer Electrolyte Fuel Cells.....243
Kentaro Doi, Hiroki Hashizume, and Satoyuki Kawano

Comparison Performances of EDM on Ti6Al4V with Two Graphite Grades.....250
Apiwat Muttamara

Observation of Electrohydrodynamic Flow through a Pore in Ion-Exchange Membrane.....254
Ayako Yano, Kentaro Doi, and Satoyuki Kawano

Electrochemical Regeneration of GIC Adsorbent in a Continuous Electrochemical Reactor.....258
S. N. Hussain, H. M. A. Asghar, H. Sattar, and E. P. L. Roberts

• Chemical Synthesis and Analysis

Reduction in Content of Bromine Compounds in the Product Oil of Pyrolysis Using Synthetic Hydrotalcite
.....262
N. Morita, T. Wajima, and H. Nakagome

Correction of Spectral Interference of Ethanol and Glucose for Rice Wine Evaluation.....267
Satoru Suzuki, Satsuki Hosono, Pradeep K. W. Abeygunawardha, Ichiro Ishimaru, Kenji Wada, and Akira Nishiyama

• Physical Chemistry

Effect of Chemical Treatments on Rice Husk (RH) Water Absorption Property.....273
Zeynab Emdadi, Nilofar Asim, M. Ambar Yarmo, and K. Sopian

Studying the Interaction between a New Mixture in Enhancing Drag Reduction Efficiency.....	277
<i>Hayder A. Bari and Emsalem Faraj</i>	
Reduction and Reforming of Tar with Enhanced Volatile-Char Interaction during Coal Pyrolysis.....	281
<i>Y. Kawabata, T. Wajima, H. Nakagome, S. Hosokai, Y. Suzuki, and K. Matsuoka</i>	
Drying Mechanism of Unutilized Cedar Logs as a Source of Heating Fuel.....	285
<i>V. H. Hoang, S. Nagasaki, Y. Kawabata, T. Wajima, and H. Nakagome</i>	
• Membrane Technology	
Fabrication of Dual Layer Hollow Fibre Membranes for Photocatalytic Degradation of Organic Pollutants	289
<i>Hazlini Dzinun, Mohd Hafiz Dzarfan Othman, A. F. Ismail, Mohd Hafiz Puteh, Mukhlis A. Rahman, and Juhana Jaafar</i>	