

International Journal of Chemical Engineering and Applications

CONTENTS

Volume 8, Number 2, April 2017

• Physical, Theoretical and Computational Chemistry

- Prediction of the Vapor–Liquid Equilibrium of Formaldehyde–Water–Trioxane Ternary System by the Conductor-Like Screening Model for Real Solvents 82
Huihong Liu, Zhenmin Bai, Yansheng Liu, Xuqiang Guo, and Yu'e Fu

- A Mathematical Model for Analytical Fitting of Amino Acid Diamide Conformational Potential Energy Surfaces... 87
John Justine S. Villar, Anita Rágynaszki, David Setiadi, Béla Viskolcz, Imre G. Csizmadia, and Adrian Roy L. Valdez

- Prediction of Vapor-Liquid Equilibrium Properties for the Mixture of Propylene+Propane from the Combined Use of Peng-Robinson Equation of State and COSMO-RS Model 92
Xinyun Pu, Lehuan Wu, and Yansheng Liu

- Solvent Screening for Cyclopentane Purification Based on COSMO-RS 97
Lehuan Wu, Xinyun Pu, and Yansheng Liu

• Petrochemical Engineering

- Bagging Ensemble Model for Prediction of Dead Oil Viscosity 102
Bharat B. Gulyani, B. G. Prakash Kumar, and Arshia Fathima

- Synthesis and Evaluation of a Comb-Like Emulsifier with High Temperature Tolerance for Oil-Based Drilling Fluid 106
Deng Zhengqiang, Jiang Guancheng, He Yinbo, Huang Xianbing, and Wu Li

- Laboratory Investigation of Static Bulk-Foam Tests in the Absence and Presence of Crude Oil 112
Evans Anto-Darkwah, Muhammed Rehan Hashmet, and Ali M. Alsumaiti

- Low Salinity as New Technique of Enhanced Oil Recovery 117
Adam Abdalla, Renyuan Sun, Tang Guiyun, Aixian Huang, and Meijie Wang

• Catalysis and Reaction Engineering

- Schiff Base Transition Metal Complexes for ROP of *L*-Lactide 122
S. Mantri, H. C. Pradhan, T. Maharana, and A. K. Sutar

- Polymer Supported Schiff Base Iron Complex for Epoxidation of *Trans*-stilbene 127
N. Nath, H. C. Pradhan, T. Maharana, and A. K. Sutar

• Polymer Materials and Chemistry

- Preparation and Characterization of Carbon Nanotubes/Hydroxyethyl Cellulose Hybrid Material 131
Gang Ke

- Carbamazepine-Fumaric Acid and Carbamazepine-Succinic Acid Co-crystal Screening Using Solution Based

Method	136
<i>Fatinah Ab Rahman, Syarifah Abd Rahim, Chou C. Tan, Souk H. Low, and Noor Ashila Ramle</i>	
Properties of Controlled-Release-Water-Retention Fertilizer Coated with Carbonaceous-g-Poly(acrylic acid-co-acrylamide)Superabsorbent Polymer	141
<i>S. Ghazali, S. Jamari, N. Noordin, and K. M. Tan</i>	
• Microfluidics	
Low-Cost Fabrication of a PDMS Microchannel Using an Improved Print-and-Peel (PAP) Method.....	148
<i>Kristian July R. Yap, John Paul Niño A. Sanglay, Jan Samuel C. Matuba, and Rodgee F. Abaya</i>	