

# 2016 Spring & 12th GCPS Poster Sessions

Monday, April 11, 2016, 5:00 PM - 7:00 PM - Exhibit Hall E, George R. Brown Convention Center

## # 63 - Poster Session - 2016 Spring Meeting

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
0	Preparation and Characterization of (FURCRAEA spp) as Green Support of Iron Nanostructured Catalyst	Karen Giovanna	Bastidas Gómez	63b
0	Preparation and Characterization of (FURCRAEA spp) as Green Support of Iron Nanostructured Catalyst	Anamaria	Barrera Bogoya	63b
2	Comparative Analysis of Molecular Structure Identifiability Based on Signatures and Descriptors	Zelimir	Kurtanjek	63s
3	Hydrogen Disposal Flare System Hazard Identification and Mitigation Analysis	Alan	Sutton	63ah
4	Enhanced Furfural Production By an Innovative Bottom Dividing Wall Column with a Decanter Configuration	Van Duc Long	Nguyen	63aj
5	Improvement of the Reactive Distillation	Van Duc Long	Nguyen	63au
6	The Principle of Intrinsic Reality: Solving the World's Woes through Chemical Engineering and Economics	Jed Moyano	Bellen	63a
7	Syngas to Ethylene Glycol: A Technology Overview	Muhammad	Imran	63x
8	Significance of Energy Intensity and GHG Emission Reduction Towards Sustainability of a Petrochemical Plant	Muhammad	Imran	128b
9	Oxidative Dehydrogenation of n-Butane on Carbon Catalysts	Sungwon	Park	63be
10	Using a Large Data Bank to Develop a Robust and Simple Model to Estimate the Saturation Pressure of Oil Reservoirs	Adel	Elsharkawy	63bb
11	Identifying Gas Liquid Contactor Performances for Optimized Natural Gas Desacidification Amines Units - from Process Calculations to Experimental Strategy	Pascal	Alix	63d
12	Measurement and Correlation of the Mutual Solubility of Diisopropylamine + Water and Triethylamine + Water Systems at High Pressure	Pingfang	Yuan	63e
13	Novel Microwave Synthesis Carbon Dots from PINE Bark and Its Application for Heavy Metal Sensing	Saheed	Sanni	63g
14	Experimental and Numerical Study of Transport Phenomenon of Falling Film Flow with Different Heating Methods	Xiaoyu	Quan	63h
15	Thermodynamic Analysis of Dehydration of n-Propanol Using Heterogeneous Azeotropic Distillation	Janakey Devi	V. K. P.	63j
16	Functionalization of OH-Terminated Nanoparticles By Cyclic Azasilanes	Oleg A.	Mazyar	63k

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<b>17</b>	Study of Ionic Liquids As Entrainers for the Extractive Distillation of N-Propanol and N-Propyl Acetate Binary Azeotropic Mixture and the Isobaric VLE Studies of the System	Ankitha Theres	George	63l
<b>18</b>	Copper-Phyllosilicate Core-Shell Nanocatalysts with Balanced Active Sites for Carbon-Oxygen Hydrogenolysis Reactions	Jiankang	Ying	63m
<b>19</b>	Improving High Shear Rate Friction Reduction Behavior of Polyacrylamide-Based Fracturing Fluids Using Xanthan Gum	Mehdi	Habibpour Rezaabadi	63n
<b>20</b>	Stimuli-Responsive Rubber in Oil and Gas Application	Rostyslav	Dolog	63o
<b>21</b>	New Development on Hoist Scheduling with the Relaxation of Cyclic Precondition	Honglin	Qu	63p
<b>22</b>	Formal Modeling of Accidents and Automatic Generation of Tutoring Scenarios for Intelligent Safety Training of Process Operators	Dongil	Shin	63q
<b>23</b>	Biogas Reforming with Addition of Carbon Dioxide to Syngas over Ni-Based Bimodal Pore Catalyst	Fei	Yu	63v
<b>24</b>	Multiscale Simulation of Proteins Motion in the Microchannel	Mohammadrez a	Samieegohar	63w
<b>25</b>	Electrospun Nanocomposite Fibers for the Removal of Heavy Metals in Water	Yang	Lu	63y
<b>26</b>	Grand Challenges in Future Energy and Chemicals: Climate Change and Sustainability As Drivers for New Technology and Innovation	Joseph B.	Powell	63z
<b>27</b>	Heavy Metal Detection in Treated Water Via a Fabric Nanocomposite Sensor	Guoqiang	Yu	63aa
<b>28</b>	Optimization of Layered Graphene Oxide Nanostructures through Controlling the Membrane Deposition Rate Towards Size-Sieving Separation	Weiwei	Xu	63ab
<b>29</b>	Ozone Source Apportionments of Local Anthropogenic Emissions	Jian	Zhang	63ac
<b>30</b>	Robust Design of a Radiant Wall Burner for a High Temperature Environment Utilizing Computational Fluid Dynamics Simulations	Addison	Cruz	63ad
<b>31</b>	Flare Minimization and Emission Characterization during Start-Ups of Chilling Train in Ethylene Plants	Cuixia	Xu	63ae
<b>32</b>	Purification of Ibuprofen Enantiomers By a New Technique Combining Distillation and Crystallization	Lie-Ding	Shiau	63af
<b>33</b>	Flow Field Simulation and Distribution Performance Analysis of a Gas Pipe Distributor in Fccu	Yaodong	Wei	63ag
<b>34</b>	Thermodynamic Modeling of Aqueous Lithium Sulfate and Its Solubility in the Presence of Na+, K+ and Mg <sup>2+</sup> Sulfates	Samira	Abedi	63ai

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<b>35</b>	Insight into the Mechanism of Toxic Chromium (VI) from Wastewater Using Magnetite Coated PINE Powder	Agnes	Pholosi	63ak
<b>36</b>	Thermodynamic Modeling of HNO <sub>3</sub> -H <sub>2</sub> SO <sub>4</sub> -H <sub>2</sub> O Ternary System with Symmetric Electrolyte NRTL Model	Harnoor	Kaur	63al
<b>37</b>	Continuously Adjustable, Molecular-Sieving "Gate" on 5A Zeolite for Distinguishing Small Organic Molecules By Size	Zhuonan	Song	63am
<b>38</b>	Dissolution and Precipitation of Minerals Under Different Alkali Concentrations in a Reactive CO <sub>2</sub> Batch System	Hyukmin	Kweon	63ao
<b>39</b>	A Computational Analysis of Fire Scene for Safety in a Compartment	Ki-Jeong	Kong	63ar
<b>40</b>	Optimization of Heat Exchanger Network in Steam Assisted Gravity Drainage Oil Sands Surface Facilities	Eun B.	Cho	63at
<b>41</b>	Modeling the Thermal Behaviors of an Ultracapacitor Module	Sung June	Park	63av
<b>42</b>	Modeling the Electrolyte Flow Behaviors of a Zinc/Bromine Flow Battery Module	Boram	Koo	63aw
<b>43</b>	Observer-Based Model Predictive Control for Time-Delay Systems	Xinghua	Pan	63ax
<b>44</b>	A Refined Non-Random Two-Liquid Segment Activity Coefficient Model for Solubility Modeling	Yifan	Hao	63az
<b>45</b>	Explaining the Paradox of Asphaltene Precipitation with n-Alkanes	M. R.	Islam	63ba
<b>46</b>	Blowdown Dynamic Modeling and Analysis of Pressure and Temperature	Kyungwoon	Kim	63bf
<b>47</b>	Development R&D of Manoir Industries and Emphasis on Coating	Hugues	Chasselin	63bh
<b>48</b>	Organic Solar Cells	Avanindra	Jaiswal	63ay
<b>48</b>	Organic Solar Cells	Naresh	Samnerkar	63ay
<b>48</b>	Organic Solar Cells	Satinder Pal	Singh	63ay
<b>50</b>	Technical Reconstruction of Double Effect Distillation for Methanol Process	Jinsheng	Sun	63ap
<b>51</b>	Technical Reconstruction of Double Effect Distillation for Methanol Process	Chengtian	Cui	63ap
<b>52</b>	Experimental Study on Najas Minor of Producing Bio-Oil	Jinsheng	Sun	63r
<b>53</b>	A Combined Rheology and Stability Study on Emulsified Acid for High Temperature Applications	Abdullah S.	Sultan	63aq

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<b>BOARD NUMBER</b>	<b>Abstract Title</b>	<b>First Name</b>	<b>Last Name</b>	<b>Paper Number</b>
<b>54</b>	Development of Novel Emulsified Acid Using Waste Oil	Abdullah S.	Sultan	63as
<b>55</b>	Stability and Rheology of Emulsified Acid in Waste Oil: Effect of Emulsifier Concentration, Mixing Speed, Temperature and Droplet Size	Abdullah S.	Sultan	63bc
<b>56</b>	Molecular Simulation of Controlling Ions and Their Role in Low Salinity IOR for Carbonate Reservoirs	Abdullah S.	Sultan	63bg