

Chemical and Petroleum Engineering

2014	
Conference Papers	
1.	Abu-Eishah, Samir I., Haitham S.A. Babahar and Munjed Maraqa, Minimization of SO ₂ Emissions at ADGAS (Das Island, UAE): I- Current vs. Modified Schemes, accepted for publication in <i>Journal of Petroleum & Environmental Biotechnology</i> , April 2014.
2.	Abu-Jdayil B. and M. Ghannam. 2014. The Modification of Flow Behavior of Sodium Bentonite – Water Dispersions with Low Viscosity CMC-Na Polymer. <i>Energy Sources Part A: Recovery, Utilization, and Environmental Effects</i> , 36, 1037-1048.
3.	Abu-Jdayil, B. and Ghannam, M. T., The Modification of Rheological Properties of Sodium Bentonite–Water Dispersions with Low Viscosity CMC Polymer Effect, <i>In Press Energy Sources, Part A</i> (2014).
4.	Al Hashemi, W., Maraqa, M. A., Rao, M. V., and Hossain, Md M., Characterization and removal of phenolic compounds from condensate-oil refinery wastewater Desalination and Water Treatment, published online (2014), DOI:10.1080/19443994.2014.884472.
5.	Al-Khalid, T. and M. H. El-Naas, Biodegradation of Phenol and 2, 4 Dichlorophenol: The Role of Glucose in Biomass Acclimatization, <i>International Journal of Engineering Research & Technology</i> , 1 No. 3 (2014) 1579-1586.
6.	Al-Nakoua, M. and M. H. El-Naas, CO ₂ Reforming of Methane in a Probe Reactor with a Thin Catalyst Layer, <i>International Journal of Engineering Research & Technology</i> , 3 No. 2 (2014) 1885-1888.
7.	Cao E., Ioannis Zuburtikudis, Noor Al-Rifai, Mark Roydhouse, and Asterios Gavriilidis, (2014), “Enhanced Performance of Oxidation of Rosalva (9-decen-1-ol) to Costenal (9 decenal) on Porous Silicon-Supported Silver Catalyst in a Microstructured Reactor”, <i>Processes</i> , 2, 141-157
8.	El-Mabrouk, S., Zekri, A., EL-Sharif, E.,” Prediction of Bubble-point Pressure and Bubble-point Oil Formation Volume Factor in the Absence of PVT Analysis,” <i>Journal of Petroleum Science and Technology</i> , Petroleum Science and Technology, Volume 32, issue 10, 2014.
9.	El-Naas M.H., S. Al-Zuhair, M. Abu AlHaija. Evaluation of a Three-Step Process for the Treatment of Petroleum Refinery Wastewater. <i>Journal of Environment Chemical Engineering</i> 2 (2014) 56–62
10.	El-Naas, M. H., J.A. Acio, A. E. Hassan, Aerobic Biodegradation of BTEX: Progresses and Prospects, <i>Journal</i>

<i>of Environmental Chemical Engineering (2014), DOI 10.1016/j.jece.2014.04.009</i>
11. Ghannam, M. T., B. Abu-Jdayil, and N. Esmail, Experimental Investigation of Crude Oil-Xanthan Emulsions Flow Behavior, <i>Journal of Petroleum Science Research</i> 3 (1), (2014).
12. Ghannam, M. T., M. Y. E. Selim, Rheological Properties of Water-in-Diesel Fuel Emulsions, <i>International Journal of Ambient Energy</i> (2014).
13. Ghasem, N., Mohamed Al-Marzouqi, Zahoor Ismail, “Gas-liquid membrane contactor for ethylene/ethane separation by aqueous silver nitrate solution”, <i>Separation and Purification Technology</i> , 127 (2014), 140-148.
14. Ghasem, N., Mohamed Al-Marzouqi, Nihmiya Abdul Rahim, “Absorption of CO ₂ form natural gas via gas-liquid PVDF hollow fiber membrane contactors and potassium glacinat as solvent”, <i>Journal of Technology</i> . Special Issue 2 (AL216), 2014.
15. Jing Dong An, Patterson, D. A., McNeil, S. and Hossain, Md. M., Immobilization of Lipase on Woolen Fabrics: Enhanced Effectiveness in Oil Stain removal, <i>Biotech. Prog.</i> (2014) (in press).
16. Khan, M.J.H., M.A. Hussain, Z. Mansourpour, N. Mostoufi, N.M. Ghasem, E.C. Abdullah, E.C. CFD simulation of fluidized bed reactors for polyolefin production– A review. <i>Journal of Industrial and Engineering Chemistry</i> . (2014), in press.
17. Selim, M. Y. E., Ghannam, M. T., S. Aldajah, and H. E. Saleh, Effect of Temperature and Mixing on Density and Viscosity of Jojoba-Diesel Fuels, <i>In Press Energy Sources, Part A</i> (2014).
18. Surkatti, R. and M. H. El-Naas, Biological treatment of wastewater contaminated with <i>p-cresol</i> using <i>Pseudomonas putida</i> immobilized in polyvinyl alcohol (PVA) gel, <i>Journal of Water Process Engineering</i> (2014), DOI 10.1016/j.jwpe.2014.03.008.
19. Taher H., S. Al-Zuhair, A. AlMarzoqi, Y. Haik, M. Farid, S. Taeqi. Supercritical carbon dioxide extraction of microalgae lipid: process optimization and laboratory scale-up. <i>Journal of Supercritical Fluids</i> 86 (2014) 57–66
20. Taher H., S. Al-Zuhair, A. AlMarzoqi, Y. Haik, M. Farid. Effective Extraction of Microalgae Lipids from Wet Biomass for Biodiesel Production. <i>Biomass and Bioenergy</i> (2014) - InPress
21. Taher, H., Al-Zuhair, S., Al-Marzouqi, A.H., Haik, Y., Farid, M., Tariq, S., “Supercritical carbon dioxide extraction of microalgae lipid: <i>Process optimization and laboratory scale-up</i> ”, <i>Journal of Supercritical Fluids</i> , 86, 57–66 (2014).

22. Zekri, A. Y., O. Chaalal and Ghannam, M. T., Cleanup of an Offshore Emulsion Spill, an Experimental Approach, <i>Energy Sources, Part A</i> 36, (2014) 121-130.
23. El-Dieb, Amr S., Samir I. Abu-Eishah and, Mostafa S. Bedir, Production of Concrete Using Electric-Arc Furnace Slag (EAF) as Aggregate, Accepted for presentation, CIC2014, Houston, TX, 2014
24. Ghasem N., M. Al-Marzouqi, N. Abdul Rahim, Removal of Heavy Metals Using Water-Soluble Polymer via PVDF Hollow Fiber Membrane Contactor. 3rd Science One International Conference on Environmental Sciences, Dubai on January 21-23, 2014.
25. Baklavaridis A., I. Tzionnas and I. Zuburtikudis, (2014), 'Nylon 12/MOF nanocomposite membranes for gas separations', 2014 ADRAC International Conference & Exhibition, 23-27 February, 2014, Abu Dhabi, UAE.
26. El-Naas, M. H. S. Hameedi, M. El Gamal, A-M. Mohamed (2014) "Carbon Sequestration through Steel-Making By-products" ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE.
27. El-Naas, M. H., J. A. Acio, A. Hassan (2014) "Biodegradation of BTEX: A Novel Approach" ADNOC International Research and Development Conference, ADRAC, 24-27th February 2014, Abu Dhabi, UAE.
28. Ghasem, N., Mohamed Al-Marzouqi, N. Abdul Rahim, Removal of Heavy Metals Using Water-Soluble Polymer via PVDF Hollow Fiber Membrane Contactor. 3rd Science One International Conference on Environmental Sciences, Dubai on January 21-23, 2014.
29. Ghassem, N., Mohamed Al-Marzouqi, and N. Abdul Rahim, "Regeneration of alknol-amine solvents used for CO2 absorption from natural gas via gas-liquid hollow fiber membrane contactor", Abu Dhabi International Research and Development Academic Conference & Exhibition (ADRAC 2014), February 2014, Abu Dhabi, UAE.
30. Ghassem, N., Mohamed Al-Marzouqi, and N. Abdul Rahim, "Silver-facilitated ethylene/ethane separation in a gas-liquid membrane contactor system", Abu Dhabi International Research and Development Academic Conference & Exhibition (ADRAC 2014), February 2014, Abu Dhabi, UAE.
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32. Mohamed Al-Marzouqi, Sayed A.M. Marzouk, and Nadia Abdullatif, "Removal of Acid Gases from Natural Gas using Gas-Liquid Contactors", Abu Dhabi International Research and Development Academic Conference

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33.	Nabag, M., Fardoun, A., Hejase, H., Al-Marzouqi, A.H., "Review of Dynamic Electric Circuit Models for PEM Fuel Cells", The 3rd International Conference on Renewable Energy: Generation and Applications, March 2-5, 2014, Al-Ain, U.A.E.
34.	Surkatti, R., M. H. El-Naas, "Experimental evaluation and modeling of the biodegradation of cresols in wastewater using <i>Pseudomonas putida</i> immobilized in polyvinyl alcohol (PVA) gel", ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE.
35.	Taher, H., Al-Zuhair, S., Al-Marzouqi, A.H., Haik, Y., Farid, M., "Effectiveness of Enzymatic Biodiesel Production from Microalga Oil in Supercritical Carbon Dioxide", The 3rd International Conference on Renewable Energy: Generation and Applications, March 2-5, 2014, Al-Ain, U.A.E.
36.	El-Dieb, Amr S., Samir I. Abu-Eishah and, Mostafa S. Bedir, Production of Concrete Using Electric-Arc Furnace Slag (EAF) as Aggregate, Accepted for presentation, CIC2014, Houston, TX, 2014
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38.	Baklavaridis A., I. Tzionnas and I. Zuburtikudis, (2014), 'Nylon 12/MOF nanocomposite membranes for gas separations', 2014 ADRAC International Conference & Exhibition, 23-27 February, 2014, Abu Dhabi, UAE.
39.	El-Naas, M. H. S. Hameedi, M. El Gamal, A-M. Mohamed (2014) "Carbon Sequestration through Steel-Making By-products" ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE.
Book Chapters	
1.	Ghasem, N., Mohamed Al-Marzouqi., Modeling, simulation and experimental verification of gas-liquid membrane contactors for Carbon dioxide absorption.In <i>Encyclopedia of Information Science and Technology</i> , Third Edition, June 2014
Patents	
1.	Abu-Jdayil, B., A.-H. Mourad, "Thermal Insulation Material" US – Patent application no. 14/086,706.
2.	Al-Zuhair, S., Al-Marzouqi, A.H., Hashim, I., Taher, H.E., "Biodiesel Production", US Patent 2014/0075828 A1.
3.	Al-Zuhair, S., H. Taher, A. Al-Marzouqi and I. Hashim, " Enzymatic Biodiesel Production from Lamb Meat Fat in Supercritical Condition"; US Patent Application No. US 2014/0075828

