

Chemical and Petroleum Engineering Department

2014

Conference Papers-2014

1. Abu-Jdayil, B., Abdel-Hamid Ismail Mourad, and Atif Hussain. Thermal insulation material made of date-pits and unsaturated polyester. IMS/7 international conference on advances in engineering materials, March 18-20, 2014, Sharjah – UAE.
2. Abu-Jdayil, B., Abdel-Hamid Ismail Mourad, and Muzamil Hassan. Utilization of local shall in thermal insulation materials. IMS/7 international conference on advances in engineering materials, March 18-20, 2014, Sharjah – UAE.
3. Al-Attar, H. "A simple Method For Estimating Average Reservoir Pressure and Well Flow Efficiency in Volumetric Oil Reservoirs," presented in Abu Dhabi Research and Development Conference 2014, Abu Dhabi 24th - 27th February, 2014.
4. Al-Khalid, T. T., M. H. El-Naas (2014) "Biotechnology in Oil Industry: Potential and Applications" ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE.
5. Al-Khalid, T. T., M. H. El-Naas, Evaluating the Performance of Spouted Bed Bio-Reactor during Aerobic Biodegradation of 2, 4 Dichlorophenol, Wastewater and Biosolids Treatment and Reuse: Bridging Modeling and Experimental Studies, WBTR, June 2014, Otranto, Italy.
6. Al-Marzouqi, M.,Sayed A.M. Marzouk, and Nadia Abdullatif, "Removal of CO₂ and H₂S from natural gas using Hollow Fiber Membrane Contactors", The 22nd Joint GCC-Japan Environment Symposium, March 2014, Dhahran, Saudi Arabia.
7. Baklavaridis A., I. Tzionnas and I. Zuburtikudis, (2014), 'Nylon 12/MOF nanocomposite membranes for gas separations', 2014 ADRAC International Conference

<p>& Exhibition, 23-27 February, 2014, Abu Dhabi, UAE.</p>
<p>8. 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</p>
<p>9. 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.</p>
<p>10. 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.</p>
<p>11. Ghasem, N., Mohamed Al-Marzouqi, N. Abdul Rahim, Removal of Heavy Metals Using Water-Soluble Polymer via PVDF Hollow Fiber Membrane Contactor. 3rd ScienceOne International Conference on Environmental Sciences, Dubai on January 21-23, 2014.</p>
<p>12. 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.</p>
<p>13. 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.</p>
<p>14. 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.</p>
<p>15. Hamdan, S. S., M. H. El-Naas (2014) " Electro-coagulation for Water Purification:</p>

Potentials and Challenges" ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE

16. Hasan, S., M. H. El-Naas, Treatment of carbide slurry using electrocoagulation, *Wastewater and Biosolids Treatment and Reuse: Bridging Modeling and Experimental Studies*, WBTR, June 2014, Otranto, Italy

17. 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 & Exhibition (ADRAC 2014), February 2014, Abu Dhabi, UAE.

18. 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.

19. Surkatti, R., M. H. El-Naas, "Experimental evaluation and modeling of the biodegradation of cresols in wastewater using *Pseudomonas putida* immobilized in polyvinyl alcohol (PVA) gel", ADNOC International Research and Development Conference, ADRAC, 24-27th February 2104, Abu Dhabi, UAE.

20. 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.

Book Chapters-2014

1. Ghasem, N., Mohamed Al-Marzouqi., Modeling, simulation and experimental verification of gas-liquid membrane contactors for Carbon dioxide absorption. In *Encyclopedia of Information Science and Technology*, Third Edition, June 2014

Patents-2014

- 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