

Publications

Chemical and Petroleum Engineering

Year 2017

Journals

Sulaiman Al-Zuhair

1. A. Jabeen, B. Reeder, S. Hisaindee, S. Ashraf, N. Al Darmaki, S. Battah, S. Al-Zuhair (2017) Effect of Enzymatic Pre-treatment of Microalgae Extracts on their Anti-tumor Activity. *Biomedical Journal (Elsevier)*, 40: 339-346
2. M. Al Ahmad, S. Al-Zuhair, A. Alnaqbi, F. Mustafa (2017) Visualization and Quantification of Oil in Single Microalgal Cell. *Journal of Applied Phycology (Springer)*, 29: 1195–1202
3. M. Abujayyab and S. Al-Zuhair (2017) Microalgae Cultivation for Phenol Removal from Wastewater. *MOJ Toxicology (MedCrave)*, 3: 00070
4. M. El-Naas, M. Alhaija, S. Al-Zuhair (2017) Evaluation of an activated carbon packed bed for the adsorption of phenols from petroleum refinery wastewater. *Environmental Science and Pollution Research (Springer)*, 24: 7511–7520
5. S. Al-Zuhair, S. Ashraf, S. Hisaindee, N. AlDarmaki, S. Battah, D. Svistunenko, B. Reeder, G. Stanway, A. Chaudhary (2017) Enzymatic Pre-treatment of Microalgae Cells for Enhanced Extraction of Proteins. *Engineering in Life Sciences (Wiley)*, 17, 175–185
6. S. Al-Zuhair, M. Hassan, M. Djama and A. Khaleel (2017) Hydrogen Production by Steam Reforming of Commercially Available LPG in UAE. *Chemical Engineering Communications (Taylor and Francis)*, 204: 141–148
7. S. Al-Zuhair, H. Taher, S. AlDhaheri, S. Wajeeh, M. Nour, E. El-Najjar (2017) Biodiesel Production from Oils Extracted from Date Pits. *Green and Sustainable Chemistry (Research Scientific Publishing)*, 7: 48-56
8. A. Khaleel, S. Al-Zuhair, S. Al-Mamary, M. Parvin, A. Khan (2017) Structural, textural, and catalytic properties of Ti(IV)-Fe(III) mixed oxides prepared via modified sol-gel route. *Chemistry Select (Wiley)*, 2: 791-799

Mamdouh Ghannam

1. Mohamed Y.E. Selim, Mamdouh T. Ghannam, and Adel M. Hussein,, “Effects of Di-Ethyl-Ether Addition on the Water-Diesel Emulsion Fuel Combustion Pressures and Pressure Rise Rates”, *American Journal of Modern Energy* 3 (6), 146-152 (2017).
2. Mohamed Y. E. Selim, Mamdouh T. Ghannam, Ahmed S. Al Awad, and Mohamed Saed Al Sabek, " Combustion and Exhaust Emissions of a Direct-Injection Diesel Engine Burning Jojoba Ethyl Ester and Mixtures with Ethanol", *BIOFUELS*, DOI: 10.1080/17597269.2017.1332296 (2017).
3. Abdulrazag Y. Zekri, Mamdouh T. Ghannam, Mohamed Nasr, and Amer M. Aborig “Relative Flow of Bacteria and Oil in Porous Media”, *Modern Environmental Science and Engineering* 3 (2), 98-106 (2017).

Eyas Mahmoud

1. Mahmoud, E. “Glucose conversion to furans in alcohols catalyzed by Lewis acidic beta zeolites and Brønsted acidic resins.” *ChemistrySelect*, 2017, 2, 10336-10339.

Basim Abu Jdayil

1. Zainab Al Ani, Talal Al Wahaibi, Farouk S Mjalli, Abdulaziz Al Hashimi, Basim Abu-Jdayil. 2017. “Flow of Deep Eutectic Solvent-Simulated Fuel in Circular Channels: Part II-Extraction of Dibenzothiophenec.” *Chemical Engineering Research and Design*, 119, 294-300.
2. Zainab Al Ani, Talal Al Wahaibi, Farouk S Mjalli, Abdulaziz Al Hashimi, Basim Abu-Jdayil. 2017. “Flow of deep eutectic solvent-simulated fuel in circular channel: Part I– flow patterns and pressure drop.” *Chemical Engineering Research and Design*, 119, 286-293

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2. Hossain, Md Monwar, Hank, Dalila, Chaalal, Omar, Khalifeh, Hadil Abu, Muhamad, Hameed (2017). Modeling and Simulation of Liquid Membrane Separation for Carbon Dioxide from Natural Gas. International Journal of Applied Mathematics & Statistics 2017. 56:63-73.

Samir Abu Eishah

1. Haya A.R. Ahmed, Samir I. Abu-Eishah, Ahmad I. Ayesh, Saleh T. Mahmoud, Synthesis and Characterization of Cu-doped TiO₂ Thin Films Produced by the Inert Gas Condensation Technique, Published in Journal of Physics: Conf. Series 869 (2017) 012027. doi :10.1088/1742-6596/869/1/012027.

Muhammad Iqbal

1. Sabeen Fatima, Syed I. Ali, Muhammad Z. Iqbal, Syed Rizwan (2017) "The high photocatalytic activity and reduced band gap energy of La and Mn co-doped BiFeO₃/graphene nanoplatelets (GNP) nanohybrids" RSC Advances, 7 (57) 35928-35937.
2. Muhammad Z. Iqbal, Priyabrata Pal, Mohamad Shoaib, Ahmed A. Abdala (2017) "Efficient Removal of Different Basic Dyes Using Graphene" Desalination and Water Treatment, 68, 226-235.

Mohamed AlMarouqi

1. Mohamed H Al-Marzouqi, Sayed AM Marzouk, Nadia Abdullatif, "High pressure removal of acid gases using hollow fiber membrane contactors: Further characterization and long-term operational stability", Journal of Natural Gas Science and Engineering, 37 (2017), 192-198.
2. Nayef Ghasem, Mohamed Al-Marzouqi, "Modeling and Experimental Study of Carbon Dioxide Absorption in a Flat Sheet Membrane Contactor", Journal of Membrane Science and Research 3 (2017) 57-63.
3. Ghasem N., M Al-Marzouqi, N Sheta, "Effect of Pressure on the Separation of Ethylene from Ethylene/Ethane Gas Mixture Using Hollow Fiber Membrane", American Journal of Polymer Science (2017), 7 (2), 30-37.

Hazim Al Attar

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2. Hazim Al-Attar and Essa Lwisa: "Modified Version of Aronovsky Model for Predicting the Performance of Naturally Fractured Oil Reservoirs", International Journal of Innovation, Education, and Research, Vol. 5 No. 10, Oct. 2017.

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1. Nayef Ghasem, M Al-Marzouqi, Modeling and experimental study of carbon dioxide absorption in a flat sheet membrane contactor, Journal of Membrane Science and Research 3 (2), 57-63

MD Mozumder

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2. Mourad, A-H.I., Mozumder, M.S, Mairpady, A., Pervez, H., Kannuri, U.M. (2017) On the Injection Molding Processing Parameters of HDPE-TiO₂ Nanocomposites, Materials 10(1): 85.

Abdulrazak Zekri

1. CHAALAL, O., ISLAM, R., ZEKRI, A., "A COMPREHENSIVE STUDY OF THERMAL STRESS ON LIMESTONE ROCKS," INTERNATIONAL JOURNAL OF PETROCHEMISTRY AND RESEARCH, APRIL 2017, PP 19-25.
2. ZEKRI, A., GANNAM, M., NASAR, M., ABORIG, A., "RELATIVE FLOW OF BACTERIA AND OIL IN POROUS MEDIA," MODERN ENVIRONMENTAL SCIENCE AND ENGINEERING (ISSN 2333-2581), FEBRUARY 2017, VOLUME 3, NO. 2, PP. 98-106.
3. ZEKRI, A., SHEDID, A.S., ABED, A., "HYDROCARBON AND NON-HYDROCARBON WAG PROCESSES: A SIMULATION APPROACH," MODERN ENVIRONMENTAL SCIENCE AND ENGINEERING (ISSN 2333-2581), JANUARY 2017, VOLUME 3, NO. 1, PP. 25-34.
4. ABUBACKER, JASSIM, AL-ATTAR, HAZIM, ZEKRI, ABDULRAZAG, MOHAMMAD KHALIFI, ESSA LWISA, "CONTACT ANGLE AND IFT MEASUREMENTS AT ELEVATED TEMPERATURES FOR EVALUATING WETTABILITY IN A SELECTED CARBONATE RESERVOIR IN THE UAE," JOURNAL PETROL EXPLOR PROD TECHNO, JAN. 2017. DOI 10.1007/S13202-017-0315-5.

Taghreed Al-Khalid

1. Al-Khalid, T. and M. H. El-Naas. Biodegradation of 2, 4 Dichlorophenol. American Journal of Engineering and Applied Sciences (AJEAS). 10, 175-191, September 2017.

Conferences**Abdulrahman Alraeesi**

1. H. Taher, S. Al-Zuhair, E. Nashef, N. Anvar (2017) Enzymatic production of biodiesel from waste oil using different ionic liquids as a reaction medium. ILSEPT - 3rd International Conference on Ionic Liquids in Separation and Purification Technology, Kuala Lumpur, Malaysia
2. E Elnajjar, S Al-Zuhair, SAB Al Omari, A Hilal-Alnaqbi, SW Hasan (2017) The Effect of Date Seeds size and Type on the Oil Extraction Percentage. 10th International Conference on Thermal Engineering: Theory and Applications, Muscat, Oman

Abdulrahman Alraeesi

1. N.M. Ghasem, A.Y. Alraeesi, Modeling and Simulation of Hydrogen Generation In Membrane Reactor Via Steam Octane Reforming, COMSOL Conference 2017 Rotterdam, conference proceeding.
2. A.Y. Alraeesi, Jackie Y. Ying, Ibrahim El-Sherbiny, Aaasha Alnuaimi, Nanotechnology: Nimble Molecules. Formidable Opportunities, 2017 Knowledge Summit, Chair and Moderator, Dubai, November 21-22, 2017.

Basim Abu Jdayil

1. Waseem Hittini, Abdel-Hamid Mourad, Basim Abu-Jdayil. Development of date pits-polystyrene composite heat insulator. 11TH INTERNATIONAL CONFERENCE ON COMPOSITE SCIENCE AND TECHNOLOGY. April 4-6, 2017, Sharjah, UAE. https://www.aus.edu/info/200227/conferences/596/iccst_11
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3. Al-Ani, Z., Mjalli, F.S., Al-Wahaibi, T., Al-Hashmi, A.A.R. and Abu-Jdayil, B., 2017, March. Deep Desulfurization with Deep Eutectic Solvent using Small Channels. In ICTEA: International Conference on Thermal Engineering (Vol. 2017).
4. Alazzawi, M., Mjalli, F.S., Al Hashimi, A. and Abujdayil, B., 2017, March. Flow of Two Phase Simulated Fuel-PEG200 in Small Channels. In ICTEA: International Conference on Thermal Engineering (Vol. 2017).

Gamal Alusta

1. Bashir Busahmin, Nawaf H. Saeid, Gamal Alusta and El-Said M. M. Zahran "Analysis of Hole Cleaning for a Horizontal Wells" ARPN Journal of Engineering and Applied Sciences, Vol. 12, No. 16, Aug. 2017 ISSN 1819-6608.
2. Bashir Busahmin, Nawaf H. Saeid, Ummul Hasanah Binti Hj Hasan, Gamal Alusta "Analysis of Hole Cleaning for a Vertical Well" Open Access Library Journal, 2017, Volume 4, e3579, ISSN Online: 2333-9721, ISSN Print: 2333-9705.

Samir Abu Eishah

1. Sama Aly, Dima Kanaan, Amr El-Dieb, Mahmoud Reda Taha, Samir Abu-Eishah, Ceramic Waste Powder: An Alternative Ingredient for a Greener Concrete. Published in Proceedings of the Ninth International Structural Engineering and Construction Conference, Valencia, Spain, July 24-July 29, 2017, "Resilient Structures and Sustainable Construction", Edited by Pellicer, E., Adam, J. M., Yepes, V., Singh, A., and Yazdani, S., ISBN: 978-0-9960437-4-8.
2. Haya A.R. Ahmed, Ahmad I. Ayesh, Samir I. Abu-Eishah, Saleh T. Mahmoud, Synthesis and Characterization of Cu-doped TiO₂ Thin Films Produced by the Inert Gas Condensation Technique, Oral presentation at FTAPS2017 (Frontiers in Theoretical and Applied Physics, UAE 2017) Conference, American University of Sharjah, Feb. 22-25, 2017.
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Mohamed AlMaraouqi

1. E. Svinterikos, M. Al-Marzouqi, I. Zuburtikudis, "Tunable fabrication of Carbon nanofibers from renewable and waste resources for the desulfurization of LPG", AICHE Annual Meeting 2017, 29th October - 3rd November, 2017, Minneapolis, MN, USA.
2. M. Al-Marzouqi, S. Marzouk, N. Abdullatif, and Farah O. S. Abu Hatab, " [CO] _2 Capture from Natural Gas", International Conference On Petrochemical Engineering Conference – Dubai UAE, July 10, 2017.
3. S. Marzouk, M. Al-Marzouqi, M. Alnaqbi, M. Bufaroosha, B. Abuhattab, "Portable Gas Analyzer for Continuous Monitoring of Hydrogen Sulfide in Gas Streams", Pittcon 2017, March 2017, Chicago, USA.
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*Book Chapters***Monwar Hossain**

1. Hossain, Md. M. (2017). Editor of the book entitled "Sunflower Oil: Interactions, Applications and Research", NOVA Science Publishers, Inc., New York, USA.
2. Hossain, Md. M. (2017). "Sunflower Oil-based Liquid Membrane Processes for Extraction of Inorganic and Organic Compounds", Chapter 6, pages 59 -96, in "Sunflower Oil: Interactions, Applications and Research", NOVA Science Publishers, Inc., New York, USA.

Patents