

Publications

Chemical and Petroleum Engineering

Year 2018

Journals

Sulaiman Al-Zuhair

1. R. Sorkatti and S. Al-Zuhair (2018) Effect of cresols treatment by microalgae on the cells' composition. Journal of Water Process Engineering (Elsevier) 26: 250–256
2. R. Sorkatti and S. Al-Zuhair (2018) Microalgae cultivation for phenolic compounds removal. Environmental Science and Pollution Research (Springer) 25:33936–33956
3. B. Mathew, S. Raji, S. Dagher, A. Alnaqbi, A. Mourad, S. Al-Zuhair, M. Al-Ahmed, K. El-Tarabily, A. Amin (2018) Bilirubin detoxification using different phytomaterials: characterization and in vitro studies. International Journal of Nanomedicine (Dovepress), 13: 2997–3010
4. F. Merza, A. Fawzy, E. Nashef, S. Al-Zuhair, H. Taher (2018) Effectiveness of Using Deep Eutectic Solvents as an Alternative to Conventional Solvents in Enzymatic Biodiesel Production from Waste Oils. Energy Reports (Elsevier) 4: 77–83
5. E. Elnajjar, S. Hassan, A. Al-Naqbi, S. AlOmari and S. Al-Zuhair (2018) Optimizing the extraction of oils from date seeds for biodiesel production. International Journal of Environmental Research (Springer), 12: 101-108

Abdulrahman Alraeesi

1. Khurshid, I., Al-Attar, H., Alraeesi, A. Modeling Cementation in Porous Media during Waterflooding: Asphaltene deposition, Formation dissolution and their Cementation. Journal of Petroleum Science and Engineering. 2018, 161: 359-367
2. Aya Abdel Hamid I. Mourad, Nayef Mohamed Ghasem, and Abdulrahman Yaqoub Alraeesi (2018) Modelling and Simulation of Hydrogen Production via Water Gas Shift Membrane Reactor. International Journal of Chemical Engineering and Applications, August 2018, Vol. 9, No. 4

Mamdouh Ghannam

1. Abdulrazag Zekri, Hamdi Ben Zekri, Mamdouh gannam, Essa Georges Lwisa and Gamal Alusta, "Possible Application of Enhanced Oil Recovery Technology in Low Permeability Carbonate Reservoir", American Journal of Engineering Research 7, 274-281 (2018).
2. Mamdouh T. Ghannam, Mohamed Y.E. Selim, Abdulrazag Y. Zekri and Nabil Esmail, "Yield Stress of Alcoflood and Xanthan Polymers Solutions and their Emulsions with Crude Oil", International Journal of Chemical Engineering and Applications 9, 1-8 (2018).
3. Mamdouh T. Ghannam, Basim Abu-Jdayil, and Nabil Esmail, "Flow Behaviors Comparison of Crude Oil-Polymer Emulsions", International Journal of Ambient Energy, DOI: 10.1080/01430750.2017.1324812 (2018).

Eyas Mahmoud

1. Ala'a H.; Jamil F.; Al-Haj L.; Myint M.T.Z; Mahmoud E.; Ahmad MNM; Hasan A.O.; Rafiq S. "Biodiesel production over a catalyst prepared from biomass-derived waste date pits." Biotechnology Reports, 2018, e00284. (NA)
2. Mahmoud, E. "Synergistic effect of acidity and extraframework position in faujasite on renewable p-xylene production." Royal Society Open Science, 2018. 2018, 5, 172471.

Basim Abu Jdayil

1. Ayyash, M., Abu-Jdayil, B., Hamed, F. and Shaker, R., 2018. Rheological, textural, microstructural and sensory impact of exopolysaccharide-producing Lactobacillus plantarum isolated from camel milk on low-fat akawi cheese. LWT-Food Science and Technology, 87, pp.423-431.
2. Basim Abu-Jdayil, Abdel-Hamid Mourad, Muzamil Hassan. 2018. "DEVELOPMENT OF POLYMERIC HEAT INSULATORS BASED ON EMIRATI RED SHALE FILLER: Thermal and Physical Properties", Polymer Composites, 39, 1463-1473.

3. Mamdouh T. Ghannam, Basim Abu-Jdayil, and Nabil Esmail. 2018. "Flow Behaviors Comparison of Crude Oil-Polymer Emulsions", International Journal of Ambient Energy, 39, 581-593

Monwar Hossain

1. Md M Hossain, D. Collins and A.F. Mohammed (2018). "Evaluation of an Ion Exchange Membrane for Adsorption of Major Whey Proteins", Adv. in Food Process. Technol., 2, 1-8.
2. Chaalal, O. H. Muhamad, Md M. Hossain & D. Hank (2018). "Use of a Smart Natural Material to Remove Zinc and Cadmium from Water, J. Sci., 2 (1), 1-6 Published online Jan 2018, ISSN: 0972-0871.

Gamal Alusta

1. Abdulrazag Zekri, Hamdi Ben Zekri, Mamdouh gannam, Essa Georges Lwisa, Gamal Alusta, "Possible Application Of Enhanced Oil Recovery Technology In Low Permeability Carbonate Reservoir" American Journal of Engineering Research (AJER)e-ISSN: 2320-0847 p-ISSN : 2320-0936. Aug. 2018, Volume-7, Issue-7, pp-274-281

Hazim Al Attar

1. Abdulrazag Zekri, Benny Harahap, Hazim Al-Attar, Essa Lwisa: "Effectiveness of Oil Displacement by Sequential Low Salinity Waterflooding in Low Permeability Fractured and Non-Fractured Chalky Limestone Cores", in press, Journal of Petroleum Exploration and Production Technology, April 2018.
2. Hazim Al-Attar, Farah Barkhad: "A Review of Unconventional Natural Gas Resources", Accepted for publication in the Journal of Nature Science and Sustainable Technology (JNSST), expected in Volume 12 Issue 4, 2018
3. Ilyas Khurshid, Hazim Al-Attar, Abdulrahman Alraeesi: "Modeling Cementation and its Effects during Waterflooding", Journal of Petroleum Science and Engineering 161 (2018) 359–367.

Nayef Ghasem

1. AAHI Mourad, Nayef Ghasem, AY Alraeesi, Modelling and Simulation of Hydrogen Production via Water Gas Shift Membrane Reactor, International Journal of Chemical Engineering and Applications 9 (4)

MD Mozumder

1. Mozumder, M.S., Mourad, A.-H.I., Mairpady, A., Pervez, H., Haque, M.E., (2018) Effect of TiO₂ nanofiller concentration of the mechanical, thermal and biological performances of HDPE/TiO₂ nanocomposites. Journal of Materials Engineering and Performance 27(5), 2166-2181

Abdulrazak Zekri

1. ZEKRI, A., HAMDI, A., GANNAM, M., LWISA, E., AND AL-AUSTA, G., 2018, "POSSIBLE APPLICATION OF ENHANCED OIL RECOVERY TECHNOLOGY IN LOW PERMEABILITY CARBONATE RESERVOIR", AMERICAN JOURNAL OF ENGINEERING RESEARCH, E-ISSN: 2320-0847 P-ISSN : 2320-0936, VOLUME-7, ISSUE-7, PP-274-281.
2. GHANNAM, G., SELIM, M., ZEKRI, A., AND ESMAIL, N., 2018, "YIELD STRESS OF ALCOFLOOD AND XANTHAN POLYMERS SOLUTIONS AND THEIR EMULSIONS WITH CRUDE OIL", INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING AND APPLICATIONS 9, 1-8.
3. ZEKRI, A. Y., HARAHAP, B. A., AL-ATTAR, H., AND ESSA G. LWISA, 2018, "EFFECTIVENESS OF OIL DISPLACEMENT BY SEQUENTIAL LOW SALINITY WATERFLOODING IN LOW PERMEABILITY FRACTURED AND NON-FRACTURED CHALKY LIMESTONE CORES" , JOURNAL OF PETROLEUM EXPLORATION & PRODUCTION TECHNOLOGY,

Md. Abdur Rauf

1. Huseyin Saricimen, Ramazan Kahraman, Zuhair Malaibari, Md Abdur Rauf, "Surface characterization of mild steel during atmospheric corrosion after being treated by sodium dihydrogen orthophosphate", Protection of Metals and Physical Chemistry of Surfaces, 2018 (vol: 54, iss: 5, pp. 926 – 933)

Conferences

Sulaiman Al-Zuhair

1. E. Elnajjar, S. Hasan, S. Al-Zuhair, SAB Al Omari, A. Alnaqbi, Characterization and Chemical Composition of UAE Date Seeds. 5th International Conference on Renewable Energy: Generation and Applications, Al-Ain, UAE
2. H. Khalil, R. Shomal, R. Abuabed, A. Mlhem, S. Al-Zuhair (2018) Using Supercritical CO₂ for Simultaneous Microalgae Oil Extraction-Reaction for Biodiesel Production. UAEU Annual Research and Innovation Conference, Al-Ain, UAE.

3. E. Elnajjar, S. Hassan, S. Al-Zuhair, S. Al Omari, A. Alnaqbi (2018) Morphology characterization and oil extraction yield of UAE date seed and its potential for energy production. UAEU Annual Research and Innovation Conference, Al-Ain, UAE

Abdulrahman Alraeesi

1. Aya Mourad, Nayef Ghasem, Abdulrahman Alraeesi, MODELLING AND SIMULATION OF HYDROGEN PRODUCTION VIA MEMBRANE REACTOR, Annual Research and Innovation Conference 2018, UAEU, Al Ain

Basim Abu Jdayil

1. Waseem Hittini, Basim Abu-Jdayil, Abdel-Hamid Mourad, "Devulcanized Rubber-Polystyrene Insulator Composite" was presented at the UAE Graduate Students Research Conference 2018 (UAEGRSC'18), which was held at American University of Sharjah, Sharjah, UAE on April 21, 2018.
2. Maissa Adi, Fatima Al Ghaferi, Sara Alyahyae, Maryam Aljabri and Basim Abu-Jdayil, "Development of Polymeric Composite Material based on Bauxite Residue" was presented at the UAE Graduate Students Research Conference 2018 (UAEGRSC'18), which was held at American University of Sharjah, Sharjah, UAE on April 21, 2018. [Received the best paper award]

Samir Abu Eishah

1. Sama T. Aly, Dima M. Kanaan, Amr S. El-Dieb, Samir I. Abu-Eishah, Properties of ceramic waste powder based geopolymer concrete (paper # 97, accepted for presentation in International Congress on Polymers in Concrete 2018 (ICPIC2018)).

Muhammad Iqbal

1. Sidra Ahmed, Ali Almarzouqi, Muhammad Z. Iqbal (2018) "Polymer Composite Paper: An Alternative to Wood-based Writing Paper" UAE Graduate Student Research Conference (UAE GSRC 2018), American University of Sharjah, UAE.
2. Ahmed Abuibaid, Muhammad Z. Iqbal (2018) "Thermal Characterization of Graphene/Polymer Nanocomposites" UAEU Annual Research and Innovation Conference 2018, UAE University, Al Ain, UAE.
3. Muhammad Z. Iqbal (2018) "Electrically Conductive Graphene/Polymer Nanocomposites" UAEU Annual Research and Innovation Conference 2018, UAE University, Al Ain, UAE.

Mohamed AlMarzouqi

1. E. Svinterikos, M. Al Marzouqi, I. Zuburtikudis, The nanoscale effect in the carbonization of electrospun lignin/PET fibers, Applied Nanotechnology & Nanoscience International Conference – 2018, 22-24/10, Berlin, Germany.
2. E. Svinterikos, M. Al Marzouqi, I. Zuburtikudis, "Carbon Nanofibers from a Blend of Lignin with Recycled PET: Properties and Characterization", AIChE Annual Meeting 2018, 28/10 – 02/11, Pittsburgh, USA.
3. E. Svinterikos, M. Al-Marzouqi, A.M. Soliman, I. Zuburtikudis, "Carbon nanofibers from renewable and waste resources for wastewater treatment", UAE Graduate Student Research Conference, 2018, Sharjah, UAE.
4. E. Svinterikos, M. Al Marzouqi, A.M. Soliman, I. Zuburtikudis, "Activated carbon nanofibers from renewable and waste resources for wastewater treatment", UAEU Research and Innovation Conference, 05 - 06 February 2018, Al Ain, UAE (Award for best poster).

Hazim Al-Attar

1. Ilyas Khurshid and Hazim Al-Attar: "An Assimilated Approach to Optimize Oil Recovery and Reduce Asphaltene Deposition during CO₂ Injection for Improved Oil Recovery", presented in the UAEU Annual Research and Innovation Conference 2018 held in UAEU on February 5-6, 2018.

MD Mozumder

1. Mohammad Sayem Mozumder, Anusha Mairpady and Abdel-Hamid I. Mourad. (2018) HDPE/TiO₂ Nanocomposite: Fabrication and Optimization of Mechanical Property by RSM and ANN. 9th International Conference on Manufacturing Science and Technology (ICMST'2018), Aug 11-14, 2018, Kuala Lumpur, Malaysia. Presented my own paper and acted as Session-2 Chair

Book Chapters

Samir Abu Eishah

1. Amr S. El-Dieb, Mahmoud R. Taha, Samir I. Abu-Eishah, The use of ceramic waste powder (CWP) in making eco-friendly concretes, In: Ceramic Materials - Synthesis, Characterization, Applications, Recycling and Environmental Impact, ISBN 978-953-51-6918-5. InTechOpen, 2018.

Mohamed AlMarzouqi

1. Nayef Ghasem, NA Rahim, M Al-Marzouqi, Carbon Capture from Natural Gas via Polymeric Membranes. Encyclopedia of Information Science and Technology, Fourth Edition, 2018, 3043-3055.

Nayef Ghasem

1. Nayef Ghasem, NA Rahim, M Al-Marzouqi, Carbon Capture From Natural Gas via Polymeric Membranes, Encyclopedia of Information Science and Technology, Fourth Edition, 3043-3055.
2. Nayef Ghasem, Modeling and Simulation of Chemical Process Systems, CRC Press, ISBN 9781138568518 - CAT# K43602

Taghreed Al-Khalid

1. Al-Khalid, T. and M. H. El-Naas. Organic Contaminants in Refinery Wastewater: Characterization and Novel Approaches for Biotreatment. Chapter in the book "Recent Insights in Petroleum Science and Engineering", ISBN 978-953-51-3810-5, 2018.

Patents