

## King Khalid University

### College of Engineering/Chemical Engineering Department

#### Publication Details

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1. Mohammed K. Al Mesfer, Abbas J. Sultana, Muthanna H. Al-Dahhan "Impacts of dense heat exchanging internals on gas holdup cross-sectional distributions and profiles of bubble column using gamma ray Computed Tomography (CT) for FT synthesis" *Chemical Engineering Journal*, Volume 300 (2016) pp. 317-333
2. Anne Van Zutphen, Saman Khan, Roohul Abad Khan, Amadur Rahman Khan, Mohammed K. Al Mesfer, Saiful Islam and Suhaib Nazar, "Changing Urban Dynamics: Empty Building Spaces," *International Journal of Sustainable Built Environment*, Volume 4, Issue 2, December 2015, pp 265-259.
3. Roohul Abad Khan, Mohammed K. Al. Mesfer, Amadur Rahman Khan and Saman Khan," *Green Examination: Integration of Technology for Sustainability*" *Environment Development and Sustainability*, November 24, 2015.
4. Al-Mesfer M.K., Danish.M., Investigating the Effect of Baffles on CSTR Performance for Liquid Phase Reaction, *AIChE Conference Proceeding*, November 9-14, 2015, Salt Lake City, USA.
5. Danish M. And Al Mesfer M.K., A comparative Study of Saponification Reaction in a PFR and CSTR, *Research Journal of Chemical Sciences*, Vol. 5(11),13-17, 2015
6. Amel Tayari, Atef Eljery, Mourad Magherbi and Ammar Ben Brahim. Entropy Generation Study of Mixed Convection in Porous Channel for Different Prandtl Numbers. *International Journal of Mechanics and Energy (IJME)* Vol. 3, Issue 1, 2015.
7. Amel Tayari, Atef Eljerry, Mourad Magherbi, Entropy Production in Mixed Convection in a Horizontal Porous Channel using Darcy-Brinkman Formulation, *Mechanical and Mechatronics Engineering* Vol:1, No:2, 2014
8. Mounir Bouabid, Nejib Hidouri, Mourad Magherbi, Atef El Jery and Ammar Ben Brahim. Irreversibility Investigation on MHD Natural Convection in a Square Cavity for different Prandtl numbers. *International Journal of Thermodynamics (IJoT)* Vol. 2 No. 4, pp. 60-75, 2014
9. Atef El Jery, Mourad Magherbi, Ammar Ben Brahim. Prandtl and Hartmann numbers Effects on Entropy Generation in Natural Convection. *International Review on Modelling and Simulations (I.R.E.MO.S.)* Vol. 4, No. 5 October 2011
10. Atef El Jery, Nejib Hidouri, Mourad Magherbi, Ammar Ben Brahim. Effect of an External Oriented Magnetic Field on Entropy Generation in Natural Convection. *Entropy*, Vol. 12, No. 6, pages 1391 – 1417, June 2010
11. A. Gannouni, A. Amari, et A. Bellagi. Acid Activation of Various Clays From South Tunisia: II. Preparation of Bleaching Grounds for Used mineral Oils., *Journal of the Tunisian Chemical Society* 13 (2), 157–171 (2011).
12. A. Amari, M. Chlendi, A. Gannouni and A. Bellagi. Experimental and Theoretical Studies of VOC Adsorption on Acid-Activated Bentonite in a Fixed-Bed Adsorber, *Industrial & Engineering Chemistry Research*, 49 (22), 11587–11593 (2010).

13. A. Amari, M. Chlendi, A. Gannouni and A. Bellagi. Optimised activation of bentonite for toluene adsorption. *Applied Clay Science* 47, 457–461 (2010).
14. A. Amari, A. Gannouni, M. Chlendi and A. Bellagi. Optimization by Response Surface Methodology (RSM) for toluene adsorption onto prepared acid activated clay. *Canadian Journal of Chemical Engineering* 86, 1093-1102 (2008).
15. Abdelbagi Osman, M.I. Abdul Mutalib and Ihab Shigidi. (May 2016) Heat Recovery Enhancement in HENs using a Combinatorial Approach of Paths Combination and Process Streams' Temperature Flexibility, *South African Journal of Chemical Engineering*, Accepted.
16. Ihab Shigidi and Abubakar Alkhaleefee. (December 2015) Parameters Optimization, Modelling and Kinetics of Balanites Aegyptiaca Kernel Oil Extraction. *International Journal of Chemical Engineering and Applied Sciences*, 5 (1): 1-4.
17. Abubakar Alkhaleefee and Ihab Shigidi. (July 2015) Optimization of Sesame Oil Extraction Process Conditions. *Advances in Chemical Engineering and Sciences*, Vol. 5 No. 3. DOI:10.4236/aces.2015.53031
18. Ihab Shigidi. Predicting Reactants' Hydrodynamic Behavior Inside Non-Porous Catalytic Reactors. *American Journal of Chemical Engineering*. Vol. 2, No. 6, 2014, pp. 71-75. DOI: 10.11648/j.ajche.20140206.11.
19. Shigidi, I.M.T.A. The use of the Bubble Point Test in Membrane Characterisation, *American Journal of Science and Technology*, Vol. 1, No. 4, 2014, pp 140-144. ISSN: 2375-3842
20. Sarkar, C.S. and Bhaskarwar, A.N. New Pollution Preventing Anionic Printing Inks and Washing Kinetics Studies on a Proto-type Roller Drum. Being communicated
21. Sarkar, Chandrakant S. et al (2016) Impact on health and Environment due to Polyethylene / Plastic Bags, its Quantification, Disposal , Alternatives and Mitigation - An Assessment of Consumption in Abha City (KSA) Through Field Survey.
22. Sarkar, Chandrakant S. et al (2015) Assessment of Consumption of Polyethylene / Plastic Bags in Abha City (KSA): Quantification, Disposal, Alternatives, Impact on Health and Environment and Mitigation – Through Field Survey, 11th Annual Research Day, 14 October 2015, College of Engineering, King Khalid University, Abha, Saudi Arabia.
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27. S.A. El-Molla\*,1, G.A. El-Shobaky, Y.M. Fahmy and H.G. El-Shobaky, Catalytic Conversion of Isopropanol and CO Oxidation in Presence of NiO Supported on Modified Cordierite, *The Open Catalysis Journal*, 2011, 4, 9-17
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30. Y.M.Fahmy, G.A.Fagal, N. A. Hassan, EDX, XRD and Surface Investigations of Fe<sub>2</sub>O<sub>3</sub> - Mn<sub>2</sub>O<sub>3</sub> /Cordierite System, World Applied Science Journal (2012).
31. Danish M., Al Mesfer K.M. and Rashid M.M., Extraction of KHCO<sub>3</sub> from Microporous polyamide-6 pellets using Batch and Single-stage continuous Process, Res.J.chem.sci., 6(2), 45-50, 2016.
32. Almesfer M.L.Al, Danish.M., Investigating the Effect of Baffles on CSTR Performance for Liquid Phase Reaction, AIChE Conference Proceeding, November 9-14, 2015, Salt Lake City, USA.
33. Danish M. And Al Mesfer M.K., A comparative Study of Saponification Reaction in a PFR and CSTR, Research Journal of Chemical Sciences, Vol. 5(11),13-17, 2015.
34. Mohd Danish, Mohammed K. Al Mesfer and Md. Mamoon Rashid, Effect of Operating conditions on CSTR performance: an Experimental Study, Int. Journal of Engineering Research and Applications, Vol-5, Issue-2,(Part-2) pp. 74-78, February 2015,
35. Md Mamoon Rashid, Mohammed K.Al Mesfer, Hamid Naseem and Mohd Danish, Hydrogen Production by Water Electrolysis: A Review of Alkaline Water Electrolysis, PEM Water Electrolysis and High Temperature Water Electrolysis, International Journal of Engineering and Advance Technology, Volume-4, Issue-3, pp. 80-93,February 2015.