

Mechanical Engineering

Year 2014

Conference Papers

1. Anas Alazzam , Ion Stiharu , Vahé Nerguizian , Saud Khashan , and Ahmad Bani Younes, Deregulated genes by dielectrophoretic manipulation of cells in microchannels, Proceedings of the 25th European Medical Informatics Conference (MIE2014), 31st August to 3rd September 2014. Istanbul, Turkey.
2. Mohammed O. Hamdan and **Saud Khashan**, Numerical Investigation of Solar Chimney Power Plant in UAE. The 3rd “International Conference on Renewable Energy: Generation and Applications” ICREGA’14, March 2014, Al-Ain, UAE.
3. Hamdan M.O., Martin P., Ateeq A., Sayedna A., Shehhi A., AlAwbathani M., " Enriching Diesel Engine Air-Intake with Hydrogen-Oxygen Mixture ", will appear in the proceedings of the 7th International Conference on Thermal Engineering Theory and Applications, Marrakesh, Morocco, May 6-8, 2014. ICTEA2014.
4. Al Omari S., Hamdan M. O., Selim M. Y. E., Elnajjar E., "The potential of using raw jojoba oil as fuel in furnaces", Proceedings of the 3rd International Conference on Renewable Energy: Generation and Applications, AlAin, UAE, March 2-5, 2014. ICREGA2014.
5. Hamdan M. O., Martin P., Elnajjar E., Selim M. Y. E., Al Omari S., "Diesel Engine Performance and Emission Under Hydrogen Supplement", Proceedings of the 3rd International Conference on Renewable Energy: Generation and Applications, AlAin, UAE, March 2-5, 2014. ICREGA2014.
6. Hamdan M. O., Khashan S., "Numerical Investigation of Solar Chimney Power Plant in UAE", Proceedings of the 3rd International Conference on Renewable Energy: Generation and Applications, AlAin, UAE, March 2-5, 2014. ICREGA2014.
7. Ateeq A., Sayedna A., Shehhi A., Al Awbathani M., Hamdan M. O., "Experimentally Assessing Hydrogen-Oxygen Production Using Alkaline Fuel Cell", Proceedings of the 3rd International Conference on Renewable Energy: Generation and Applications, AlAin, UAE, March 2-5, 2014. ICREGA2014.
8. A-H. I. Mourad, M. Allam, A. El Domiaty, Study on the mechanical behavior of aluminum alloy 5083 friction stir welded joint, Proceedings of the ASME 2014 Pressure Vessels & Piping Division Conference, Anaheim, California, USA. July 20-24, 2014.
9. Mohammad Sayem Mozumder, Abdel-Hamid Mourad, Hiran Perinpanayagam, Jesse Zhu. Nano-SiO₂ enriched biocompatible powder coatings. 5th International Conference on Advanced Nanomaterials, Aveiro, Portugal 2-4 July 2014.
10. MS Mozumder, A-HI Mourad, H Perinpanayagam, J Zhu. Ultrafine polymeric powder coating technique to fabricate micro/nano-scale topographic coatings for implants. Scandinavian Society for Biomaterials – 7th annual meeting iNANO, Aarhus University, Aarhus, Denmark 26 – 28 March 2014.
11. Abdel-Hamid I. Mourad, Yaser E. Greish, Processing and Mechanical Performance of Hydroxyapatite-UHMWPE Composites, Seventh International Conference on Advances in Engineering Materials (IMS-7), March 18-20, 2014.

12. Mechanical Properties and Preliminary Bioactivity of Wollastonite-UHMWPE in Protein Free Simulated Body Fluids, Seventh International Conference on Advances in Engineering Materials (IMS-7), March 18-20, 2014.
13. Basim Abu-Jadayil, Abdel- Hamid I. Mourad, Atif Hussain, Thermal Insulation Material Made of Date-Pits and Unsaturated Polyester, Seventh International Conference on Advances in Engineering Materials (IMS-7), March 18-20, 2014
14. **Basem F. Yousef**, Invited speaker , ADCO 1st Mechanical Conference, “Worm Robot with Dynamic Adaptation to Pipe Diameter for In-Pipe Inspection” March 5th 2014, Abu Dhabi, UAE.
15. Stress Corrosion Cracking Of Welded Stainless Steels Used In The Fabrication Of Brine Recirculation Pumps, O.A. Abuzeid, A. I. Aljoboury, M. Abo Zour, Accepted for oral presentation at the Sixth International Conference on Engineering Failure Analysis, Lisbon, Elsevier, July, 2014.
16. Moustafa, K.A , and Haik, “Pipeline Parameter Identification and Leak Localization Using Experimental Data,” Accepted, 2014 ASME Pressure Vessels and Piping Conference (PVP 2014), Anaheim, California, July 20 – 24, 2014.
17. Sangarappillai Sivaloganathan, *Building Concept Prototype as a Means to Educate Design: Experience with Two Graduation Projects*, International Conference on Engineering and Product Design Education, September 2014. (To be presented)
18. Sangarappillai Sivaloganathan and Ali Al Marzouqi, *Innovative Teaching of Product Design and Development in an Engineering Management Master Program*, to be presented in the 121st Annual Conference of the ASEE in June 2014. (To be presented)
19. Sangarappillai Sivaloganathan and Rajesh Ganithi, *Effectual Thinking: A Systematic Approach for Teaching Entrepreneurship as Part of Design and Manufacture Lab*, to be presented in the 121st Annual Conference of the ASEE in June 2014. (To be presented).

Books

Edited Books

Book Chapters

Patents