

Mechanical Engineering

Year 2013

Conference Papers

1. **Saud A. Khashan** and Edward Furlani, Numerical Analysis of Microfluidic Magnetic Bead Separation Utilizing an Integrated Array of Magnetic Elements Magnetized by a Homogenous Bias Field, *NSTI Nanotech.* **2**, pp. 289-292, 2013
2. **Saud A. Khashan**, Anas AlAzzam and Edward Furlani ,A Novel Design for a Microfluidic Magnetophoresis System: Computational Study, Proceedings of the 12th International Conference on Fluid Control, Measurements and Visualization FLUCOME2013, Nara, Japan, November 18-23, 2013.
3. Hamdan, M. O., Selim M., Al-Omari S.A., Elnajjar E., Ghannam M., “Effect of Stabilized Water-Diesel Emulsions on External Combustion Characteristics”, will be presented in the ASME 2013 Summer Heat Transfer Conference, ASME 2013, July 14-19, 2013, Minneapolis, Minnesota, USA.
4. Hamdan, M. O., Hayek A., “Effect of Stabilized Water-Diesel Emulsions on External Combustion Characteristics”, will be presented in the ASME 2013 Summer
5. Razan Alkhatib, Ali Abdallah Alnaqbi, Mohamed Al-Rubeai, Sherif M Karam
6. Development of a novel method for the identification of mouse gastric stem cells. Paper, Imagine-Nano Spain 2013.
7. Ali Abdallah Alnaqbi, Razan Alkhatib, Mohamed Al-Rubeai and Sherif M Karam.
8. Biomolecules and NanoStructures 4. Poland 2013
9. Waleed K. Ahmed, A-H.I. Mourad, LEM based approach to evaluate the impact of debonding problems in rehabilitated steel members using FRP composites, IV ECCOMAS Thematic Conference on the Mechanical Response of Composites, COMPOSITES 2013, University of the Azores at Ponta Delgada, S. Miguel Island, Azores, Portugal, 25-27 Sept. 1013.
10. El-Naas, M., R. Surkatti and A-H. I. Mourad, Evaluation of the mechanical properties of Poly Vinyl Alcohol (PVA) gel for biomass immobilization, World Congress of Chemical Engineering, WCCE 9, Seoul, Korea, August 18-23, 2013.
11. A.-H. I. Mourad, J. Altarawneh, and A. El Domiaty, Fracture assessment of x65 steel pipe with through-wall crack under pure bending, proceedings of the 2013 Pressure Vessels & Piping Conference, American Society of Mechanical Engineers (ASME PVP2013), Paris, France, July 14-18, 2013.
12. **Yousef, Basem F.** and Farah Aiash, “A Mechanism for Surgical Tool Manipulation”, 9th IEEE Asian Control Conference (ASCC 2013), Istanbul, turkey , pp. 2713-2718, June 2013
13. Moustafa, K.A., Alomari, A., Aldajah, S., Hayek, S., and Haik, Y. “Effect of Nanoclay Fillers on the Composites’ Mechanical Behavior,” The 17th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2013, Orlando, USA, July 9 – 12, 2013.

14. Aldajah S., Haik Y, Moustafa K, Al Omari A “FEM Modeling of Nanocomposites Low Speed Impact Behavior,” The 3rd World Conference on Science and Engineering - WCSE 2013, Singapore, August 24-25, 2013.
15. Sangarappillai Sivaloganathan and Tamer Shahin, *Integrated Projects: Positioning Design as the Underlying Ingredient towards Integrating Subject Areas within an Undergraduate Programme – A Case Study*, International Conference on Engineering and Product Design Education, Dublin Institute of Technology, Dublin, Ireland, 5th – 6th September 2013.
16. Sangarappillai Sivaloganathan and Tamer Shahin, *Towards a Design Model for Student Graduation Projects – A Case Study*, International Conference on Engineering and Product Design Education, Dublin Institute of Technology, Dublin, Ireland, 5th – 6th September 2013.
17. Sangarappillai Sivaloganathan, Aisha Abdulrahman, Shaikha ALDousari, Abeer ALShamsi and Aysha ALAmeri, *Whether to Cast, Weld or Bolt – Learning Design for Manufacturing through a Graduation Project*, Proceedings of the American Society of Engineering Education, June 23 – 26 2013.
18. Mobasseri O., Sivaloganathan S., and Shahin T.M.M., *An Adaptation of Quality Function Deployment for Planning Structural Analysis in Product Design Environment*, 13th NAFEMS World Congress June 10, 2013
19. Sangarappillai Sivaloganathan, Aisha Abdulrahman, Shaikha ALDousari, Abeer ALShamsi and Aysha ALAmeri, *Design of Next Generation Products by Novice Designers Using Function Based Design Interpretation*, 4th International Conference on Research in Design, ICoRD’13, IIT Madras, Chennai, India, January 2013.

Books

20. Abdel-Hamid I. Mourad, guest Editor for the " Applied Mechanics and Materials", the proceeding of the 2nd International Conference on Mechatronics and Computational Mechanics (ICMCM 2013), Frankfurt, Germany Dec. 30-31, 2013, Trans Tech Publications.

Edited Books

Book Chapters

Patents