

# Publications

## Mechanical Engineering Department

Year 2015

### *Journals*

1. B. Mathew, A. Alazzam, M. Abutayeh, A. Gawanmeh, S. Khashan, 2015 Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves, *Chemical Engineering Science*, vol. 138, pp. 266 – 280
2. B. Mathew, A. Alazzam, B. El-Khasawneh, M. Maalouf, G. Destgeer, H. J. Sung, 2015 Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves, *Separation and Purification Technology*, vol. 153, pp. 99 – 107.
3. Samir A. Emam and Daniel J. Inman, A review on bistable composite laminates for morphing and energy harvesting, *Applied Mechanics Reviews*, 67(6), 060803, 2015.
4. Samir A. Emam and Mostafa Abdalla, Subharmonic parametric resonance of simply supported buckled beams, *Nonlinear Dynamics*, 79, 1443–1456, 2015.
5. Mohamed Y. E. Selim, Mamdouh Ghannam, S. Aldajah and H. Saleh, Effect of temperature and mixing on density and viscosity of jojoba-diesel fuels, *Energy Sources Journal, Part A: Recovery, Utilization, and Environmental Effects*, 37:1774–1781, 2015. Published online 8 July **2015**.
6. MO Hamdan, Mohamed YE Selim, SAB Al-Omari, E Elnajjar, [Hydrogen supplement co-combustion with diesel in compression ignition engine](#), *Renewable Energy* 82, 54-60, **2015**.
7. Mohamed Y. E. Selim, Mamdouh T. Ghannam and Adel M. M. Hussein, Physical-Chemical Properties of Water-in-Diesel Fuel Emulsions, *International Journal of Petroleum Technology*, 2 (2), 45-52, **2015**.
8. Basem F. Yousef, (2015) Tracking the Position and Orientation of Ultrasound Probe for Image-Guided Surgical Procedures”, *Book chapter in “Telemedicine, Telehealth, eHealth and mHealth”*, CRC press, Ch 52, pp 1-14

### *Conferences*

1. B. Mathew, A. Alazzam, B. El-Khasawneh, S. A. Khashan, G. Destgeer, H. J. Sung, 2015, Tracking microparticles subjected to dielectrophoresis in a continuous flow microdevice, 2015 ASME International Mechanical Engineering Congress and Exposition, art. no. IMECE2015-51264, pp. V010T13A002, Houston, TX, USA, 13 – 19 Nov. 2015
2. B. Mathew, A. Alazzam, G. Destgeer, H. J. Sung, 2015, Trajectory of microparticles actuated with standing surface acoustic waves in microfluidic devices, 2015 IEEE Regional Symposium on Micro and Nanoelectronics (RSM), Kuala Terengganu, Malaysia, 19-21 Aug. 2015

3. B. Mathew, A. Alazzam, M. Anytayeh, I. Stiharu, 2015, Modeling microparticles' path in DEP-FFF microfluidic devices, 2015 IEEE Regional Symposium on Micro and Nanoelectronics (RSM), Kuala Terenganu, Malaysia,
4. B. Mathew, A. Alazzam, S. A. Khashan, B. El-Khasawneh, 2015, Trajectory of microscale entities in a microdevice for field-flow fractionation based on dielectrophoresis, art. no. 95180X, 4 – 6 May 2015, Barcelona, Spain
5. B. Mathew, A. Alazzam, S. A. Khashan, 2015, Microfabrication of multi-layered electrodes for dielectrophoresis-based field flow fraction, SPIE Microtechnologies, art. no. 95180O, 4 – 6 May 2015, Barcelona, Spain
6. S. A. Khashan, A. Alazzam, B. Mathew, 2015, Modeling and simulation of the multiphase flow involving magnetophoresis based microfluidic systems, SPIE Microtechnologies, art. no. 951728, 4 – 6 May 2015, Barcelona, Spain