Name

Sa'ed Awni Musmar

Education – degree, discipline, institution, year

-2003-2006: Ph.D, Metals and Materials Engineering/Metallurgical engineering, McGill University, Canada
-1999-2001: MSc., Mechanical Engineering, University of Jordan, Jordan.
-1994-1999 B.Eng., Thermal Science, Mechanical Engineering, Mu'tah University, Jordan.
Ph.D. Thesis Title: In-Situ Thermal Analysis Probe.

Academic experience – institution, rank, title (if appropriate), when, full time or part time

-Sep. 2013 - Now: Associate Professor , Industrial Engineering Department, University of Jordan, Amman, Jordan -Sep. 2011 – Aug. 2013 Assistant Professor , Mechanical and industrial
Department, Majmaah University, Al-Majmaah, Saudi Arabia.
-Feb. 2007 - Sep. 2011 Assistant Professor , Mechanical Engineering department and lecturing for Systems Engineering Department, Mutah University, Karak, Jordan
-June 2011 - Sep. 2011 Visiting researcher, Braunswiegh university, Germany
-June 2010 - Sep. 2010 Visiting Professor , McGill University, Montreal, Canada
-Sep. 2003 - Sep. 2006 Research Assistant, Faculty of Engineering, McGill University, Montreal, Canada.
-Sep. 2000 – Sep. 2001. Research Assistant, Faculty of Engineering, University of Jordan, Amman, Jordan

Non-academic experience – company or entity, title, brief description of position, when, full time or part time

Mechanical Engineer, Machine shop engineer
Odeh Al Naber Transportation Company, Amman, Jordan.1999 – Sep. 2000

Certifications or professional registrations

WHMIS (Workplace Hazardous Materials Information System) training

Advanced Techniques in Microscopy for Materials Characterization

Modules: SEM1, X-Ray Analysis, Advanced Probe, Image Analysis and EBSD

Current membership in professional organizations

Jordan Engineers Association

Honors and awards

University of Majmaah 2013
Engineering and Applied Sciences Research Center at Majmaah University (KSA) 2013

Service activities (within and outside of the institution)

Iron and Steel Committee (Jordan Standards and Metrology Organization (JSMO))

The most important publications and presentations

1. "Quantitative Assessment of Potassium Hydroxide Concentration in Oxyhydrogen Cell for Optimal Gasoline Fuel Engine Performance and Emissions." ASME. *J. Energy Resour. Technol*. doi: https://doi.org/10.1115/1.4048505
2. "Triple Diffusive Unsteady Flow of Eyring–Powell Nanofluid Over a Periodically Accelerated Surface With Variable Thermal Features",2020, Front. Phys. 8:246. doi: 10.3389/fphy.2020.00246
3. " Bioconvection in Cross Nano-Materials with Magnetic Dipole Impacted by Activation Energy, Thermal Radiation, and Second Order Slip", Symmetry 2020, 12, 1019; doi:10.3390/sym12061019
4. " Aspects of Chemical Entropy Generation in Flow of Casson Nanofluid between Radiative Stretching Disks, Entropy, 2020, 22, 495; doi:10.3390/e22050495
5. " Biodiesel Production from Melia azedarach and Ricinus communis Oil by Transesterification Process", Catalysts 2020, 10, 427; doi:10.3390/catal10040427
6. "Effect of cylinder-liner rotation on wear rate: An experimental study" Heliyon, Vol. 5, Issue 7, 2019, pp. e 02065

The most recent professional development activities