



Name: Dr. Abeer Abdullah Al Anazi

Rank: Assistant Professor - Mechanical Engineering

Personal Information

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| Nationality: | Canadian |
| AU Joining Date: | 17 Sep 2017 |
| E-Mail Address: | a.alanazi@au.edu.kw |

Professional Information

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| Education: | <p>Qualification: Ph.D. Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2015/ 2016</p> <p>Qualification: Masters Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2011/ 2012</p> <p>Qualification: B. Eng. Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2010/ 2011</p> |
| Specialization: | <p>Fluid Mechanics Renewable Energy Micro and Nano-fluidics Micro and Nano - Technologies</p> |
| Current Academic Position: | Assistant Professor – Mechanical Engineering |
| Current Professional Positions: | - |

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| Previous Administrative Position Held: | - |
| Previous Academic Positions Held: | American University of The Middle East (AUM), (2015 – 2017) |
| Fellowships And Honors: | Kuwait Society of Engineers (KSE) Institution of Mechanical Engineers (IMechE) |
| Teaching Experience: | Australian University - Kuwait (2017 – Present) American University of The Middle East (AUM) - Kuwait (2015 – 2017) |
| Industrial And Technical Experience: | - |
| Research Interest: | Micro-, Nano- and Bio-Fluidics Nanotechnology Nanotech. Material Computational Fluid Dynamics and Heat Transfer Mathematical Modelling in Engineering Renewable Energy |
| Research Grants: | Kuwait Funds for Scientific Research (KFAS) |
| Research and Publications including Journal and Books: | <p>"Experimental and Computational Study on Thermal Performance of Wood-Plastic Composites in Building Envelope", M Al Sarheed, A Sedaghat, M Malayer, H Salem, S Oloomi, W Hussam, A Al Anazi, O Al Rifai; 2024</p> <p>"Modeling and investigating electric power output maximization for piezoelectric energy harvester", A Al Anazi, O Candra, A Chammam, H Marhoon, I Ali, I Al-Kharsan, R Alayi, Y Ebazadeh, M Aladdin; 2023</p> <p>"Improving the Corrosion Resistance of NiNb-Based Bulk Metallic Glass through the Hot Compression", A Al Anazi, A Coronel, R Obaid, A Albaker, M Gatea, S Mostafavi; 2023</p> <p>"Theoretical Analysis of an Integrated, CPVT Membrane Distillation System for Cooling, Heating, Power and Seawater Desalination" A Al Anazi, M Alghamdi, A Chammam, M Kadhm, I Al-Kharsan, R Alayi; 2023</p> <p>"Investigation and Evaluation of the Hybrid System of Energy Storage for Renewable Energies", A Al Anazi, L Barboza-Arenas, R Parra, R Sivaraman, M Qasim, S Al-Khafaji, M Gatea, Reza Alayi, W Farooq, Z Leonowicz, F Novak, R Gono; 2023</p> <p>"Effectual and Rapid Synthesis of Hantzsch Derivatives in Solvent-Free Conditions Catalyzed by a Mesoporous Basic Silica-Based Nanomaterial", A Al Anazi, R Satar, H Jabbar, I Sapaev, F Altalbawy, A Alameri, R Obaid, A Coronel, R Alfihl, Y Mustafa, M Heidarpour; 2023</p> |

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| | <p>“An investigation on creep deformation and mechanical properties of a polycrystalline Fe-based alloy: a molecular dynamics study”, A Al Anazi, G AlAwwsi, S Limhengha, A Coronel, S Shafik, A Almulla, 2023</p> <p>“Technical, Economic, and Environmental Analysis and Comparison of Different Scenarios for the Grid-Connected PV Power Plant”, A Al Anazi, A Albaker , W Anupong, A Asary, R Umurzoqovich, I Muda, R Parra , R Alayi, L Kumar; 2022</p> <p>"Solar Desiccant Cooling System for a Commercial Building in Kuwait's Climatic Condition", R Narayanan, A Al-Anazi, R Pippia, M Rusul; 2022</p> <p>"Development of Low Speed Wind Energy harvesting Device", A Younis, Z Dong, M Elbadawy, F AlKhatib, A AlAnazi; 2022</p> <p>“Design Optimization of Solar Desiccant Cooling System for The Climatic Conditions of Kuwait”, R Narayanan, A Al-Anazi, R Pippia, M Rusul; 2021</p> <p>“Improving Energy and Thermal Performance of Greenhouses in Hot Climatic Regions using Polymer Aerogels”, A Al-Anazi, 2021</p> <p>“Effect of Aerogel Insulation on Energy and Thermal Performance of Greenhouses in Kuwait”, A Al-Anazi; Nanotechnology and Applications; 2021</p> <p>“High Efficiency Performance of Qurtz Fibers for Filtering Soot Aerosols”, A Amini, M Nazari, R Mbarki, A Al Anazi, H Abdulrazzaq, 2020</p> <p>“Carbon-based Nano Electro-Mechanical Systems”, A Al-Anazi; Journal of Nanoscience; ISSN25772 – 0813; 2020</p> |
| Paper Presentations at Professional Conferences: | <p>9th World Congress on Biopolymers and Polymer Chemistry, October 2022</p> <p>3rd International Conference on Energy and Power (ICEP 2021), Chiang Mai - Thailand, November 2021</p> <p>3rd International Conference on Energy and Power, 2021</p> <p>3rd European Congress on Material Science & Nanotechnology, Paris – France, September 2021</p> <p>10th World Congress on Biopolymers & Bioplastics, Zurich – Switzerland, August 2020</p> <p>Smart Devices Symposium, Osaka – Japan, 2020</p> <p>1st International Conference on Applications of Air Quality in Science and Engineering - Kuwait - February 2020</p> <p>18th International Conference on Emerging Materials and Nanotechnology - London, UK - February 2020</p> <p>Global Nanotec Summit, Hong Kong – Singapore, 2019</p> <p>International Oil and Gas Conference, Kuala Lumpur – Malaysia, 2019</p> <p>8th Annual World Congress of Advanced Materials - Osaka, Japan 2019</p> |
| College Service including committee Membership: | <p>Represented Mechanical Engineering - College of Engineering and Technology at different local events and competitions including:</p> <p>Kuwait Hackathon - 2019</p> <p>Kuwait Industrial Union (KIU) Bridges – 2019</p> <p>International Women in Engineering Day (INWED) - 2020</p> |

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| | 400 Years of Kuwait AU Seminar - Kuwait National Day 2020 Middle East Women Inventors & Innovators Network (MEWIIN) - 2020 Virtual MENA Regional Meeting of The Global Research Council (GRC) - 2021 |
| National Service: | Collaborations with KFAS and KISR |
| College Committees: | Mechanical Engineering Department – Curriculum Committee Mechanical Engineering Department – Validation and Moderation Committee Mechanical Engineering Department – Quality Management Committee |