



Name: Dr. Abeer Abdullah Al Anazi

Rank: Assistant Professor - Mechanical Engineering

Personal Information

Nationality: Canadian
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Professional Information

Education:	Qualification: Ph.D. Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2015/ 2016
	Qualification: Masters Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2011/ 2012
	Qualification: B. Eng. Major: Mechanical Engineering College/University: University of Hertfordshire - UK Year: 2010/ 2011
	Qualification: B. Sc. Major: Biochemistry College/University: University of Ottawa - Canada Year: 2001/ 2002
Specialization:	Fluid Mechanics Renewable Energy Micro and Nano-fluidics

	Micro and Nano - Technologies
Current Academic Position:	Assistant Professor – Mechanical Engineering
Current Professional Positions:	-
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:	Decarbonization and sustainability of solar PV panel-integrated greenhouses in challenging climate AA Al Anazi, N Ghareeb, A Sedaghat International Journal for Housing Science & Its Applications 46 (1) Theoretical analysis of an integrated, CPVT membrane distillation system for cooling, heating, power and seawater desalination AAA Anazi, MI Alghamdi, A Chammam, MS Kadhm, IH Al-Kharsan, ... Water 15 (7), 1345 Technical, economic, and environmental analysis and comparison of different scenarios for the grid-connected PV power plant AA Al Anazi, A Albaker, W Anupong, AR Asary, RS Umurzoqovich, I Muda, ... Sustainability 14 (24), 16803 Solar desiccant cooling system for a commercial building in Kuwait's climatic condition R Narayanan, AA Al Anazi, R Pippia, MG Rasul Energies 15 (11), 4102

	Comparative investigation on defect-engineered Bi₂S₃-xSex for boosting photocatalytic Cr (VI) reduction and in-situ H₂O₂ generation: Mechanistic and kinetic studies AA Al Anazi, M Treve, A Ali, A Albaker, AK Kareem, S Jain, AS Altamimi, ... Materials Research Bulletin 166, 112336 Modeling and investigating electric power output maximization for piezoelectric energy harvester AA Al Anazi, O Candra, A Chammam, HA Marhoon, IR Ali, IH Al-Kharsan, ... AIP Advances 13 (5) Manufacturing Wood-Plastic Composites and their Thermal Performance in Building Envelope M Al Sarheed, A Sedaghat, MA Malayer, H Salem, SAA Oloomi, ... An investigation on creep deformation and mechanical properties of a polycrystalline Fe-based alloy: a molecular dynamics study AA Al Anazi, GRL Al-Awsi, S Limhengha, AA Ramírez-Coronel, SS Shafik, ... Mechanics of Advanced Materials and Structures 31 (16), 3543-3552 Effectual and rapid synthesis of Hantzsch derivatives in solvent-free conditions catalyzed by a mesoporous basic silica-based nanomaterial AA Al Anazi, R Satar, HS Jabbar, IB Sapaev, FMA Altalbawy, AA Alameri, ... Silicon 15 (8), 3453-3461 Orbital angular momentum swapping of light via biexciton coherence AA Al Anazi, A Wongchai, MA Gatea, RF Obaid, KSG Valverde Physica B: Condensed Matter 650, 414549 Improving the Corrosion Resistance of NiNb-Based Bulk Metallic Glass through the Hot Compression AA Al Anazi, AA Ramírez-Coronel, RF Obaid, A Albaker, MA Gatea, ... Advances in Materials Science and Engineering 2023 (1), 3938111 EXPERIMENTAL AND COMPUTATIONAL STUDY ON THERMAL PERFORMANCE OF WOOD-PLASTIC COMPOSITES IN BUILDING ENVELOPE M Al Sarheed, A Sedaghat, MA Malayer, H Salem, SAA Oloomi, ... Special Topics & Reviews in Porous Media: An International Journal 15 (1) Technical, Economic, and Environmental Analysis and Comparison of Different Scenarios for the Grid-Connected PV Power Plant AAA Anazi, A Albaker, W Anupong, AR Asary, RS Umurzoqovich, I Muda, ... Sustainability 14 (24), 1-16 Solar Desiccant Cooling System for a Commercial Building in Kuwait's Climatic Condition. Energies 2022, 15, 4102 R Narayanan, AA Al Anazi, R Pippia, MG Rasul
Paper Presentations at Professional Conferences:	• 9th World Congress on Biopolymers and Polymer Chemistry, October 2022 • 3rd International Conference on Energy and Power (ICEP 2021), Chiang Mai - Thailand, November 2021 • 3rd International Conference on Energy and Power, 2021 • 3rd European Congress on Material Science & Nanotechnology, Paris – France,

	September 2021 • 10th World Congress on Biopolymers & Bioplastics, Zurich – Switzerland, August 2020 • Smart Devices Symposium, Osaka – Japan, 2020 • 1st International Conference on Applications of Air Quality in Science and Engineering - Kuwait - February 2020 • 18th International Conference on Emerging Materials and Nanotechnology - London, UK - February 2020 • Global Nanotec Summit, Hong Kong – Singapore, 2019 • International Oil and Gas Conference, Kuala Lumpur – Malaysia, 2019 • 8th Annual World Congress of Advanced Materials - Osaka, Japan 2019
College Service including committee Membership:	Represented Mechanical Engineering - College of Engineering and Technology at different local events and competitions including: • Tech Connect Expo - 20225 • Virtual MENA Regional Meeting of The Global Research Council (GRC) - 2021 • International Women in Engineering Day (INWED) - 2020 • 400 Years of Kuwait AU Seminar - Kuwait National Day 2020 • Middle East Women Inventors & Innovators Network (MEWIIN) - 2020 • Kuwait Hackathon - 2019 • Kuwait Industrial Union (KIU) Bridges – 2019
National Service:	Collaborations with KFAS and KISR
College Committees:	Mechanical Engineering Department – Curriculum Committee Mechanical Engineering Department – Validation and Moderation Committee