

1- Personal Details

Name : Dr. Ibrahim M. Alarifi
Designation : Associate Professor
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2- Area of specialization:

Major	Mechanical Engineering
Minor	Materials Science

3- Education & Qualifications

Date	Degree	University name	Country	Title of the Dissertation
2008	Bachelor of Science in Mechanical Engineering	University of Toledo	USA	NA
2010	Master of Science in Engineering	Eastern Michigan University	USA	NA
2016	Master of Science in Mechanical Engineering	Southern Methodist University	USA	NA
2017	PhD in in Mechanical Engineering	Wichita State University	USA	Fabrication and characterization of electrospun polyacrylonitrile carbonized fibers as strain gauges in composites for structural health monitoring applications

4- Professional Activities:

Job Title	Place	Country	From	To
Associate Professor	Majmaah University	Saudi Arabia	2021	Current
Assistant Professor	Majmaah University	Saudi Arabia	2017	2021
Researcher I	King Abdul-Aziz City Science and Technology	Saudi Arabia	2010	2011
Foreman Engineer	SABIC	Saudi Arabia	2001	2005

5- Teaching Experiences

#	Teaching Experiences	University	From	To
1	Fundamentals of Engineering Drawing	Majmaah University	2011	2013
2	Mechanical Engineering Drawing	Majmaah University	2011	2018
3	Material Engineering	Majmaah University	2017	current
4	Materials Selection in Design and Manufacturing	Majmaah University	2019	2020
5	Senior Design I	Majmaah University	2018	2019
6	Senior Design II	Majmaah University	2018	2020

6- Areas of Specialization

#	Areas of Specialization
1	Materials Science, Biomaterials, Nanotechnology, Carbon Fibers, Polymers and Composites.
5	

7- Current membership in professional organizations

#	Membership	ID
1	Editor Member Board at Journal of Nanomaterials	Check website
2	American Society of Mechanical Engineers (ASME)	000102613213
3	Editor in International Journal of Material Science and Research	Check website
4	Editor Member Board at Molecules (mdpi)	Check website

8- Publications (Most important publications in the last 5 Years)

#	Publications / Presentations	Journal (Conference)	Publishing Year (Conference Date)
1	Quasi-Static Flexural Behavior of Epoxy-Matrix-Reinforced Crump Rubber Composites	Processes	2022
2	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art	Journal of Nanomaterials	2022
3	Interlayer Defect Detection in Intra-Ply Hybrid Composite Material (GF/CF) Using a Capacitance-Based Sensor	Sensors	2022
4	A comprehensive analysis to assess the impact of nano MoS ₂ on the wear characteristic of Al-TiB ₂ -Gr composite	Materials Research Express	2022
5	Modal analysis and improvement of lightweight wings for micro air vehicle (MAV) applications	Journal of Mechanical Science and Technology	2022
6	Development of conductive thin films as piezoresistive strain sensor	Materials Chemistry and Physics	2021
7	Parametric Analysis of Epoxy/Crumb Rubber Composite by Using Taguchi—GRA Hybrid Technique	Polymers	2021
8	Mechanical and Abrasive Wear Performance of Titanium Di-Oxide Filled Woven Glass Fibre Reinforced Polymer Composites by Using Taguchi and EDAS Approach	Materials	2021
9	A sensitive electrochemical detection of hydrazine based on SnO ₂ /CeO ₂ nanostructured oxide	Microchemical Journal	2021
10	Properties and application of MoS ₂ nanopowder: Characterization, Congo red dye adsorption, and optimization.	Journal of Materials Research and Technology	2021
11	In-situ annealing and characterization of superhydrophobic electrospun poly (acrylonitrile) ionized nanofibre smart material properties	Bulletin of Materials Science	2020
12	Thermal and Fluid Dynamics Performance of MWCNT-Water Nanofluid Based on Thermophysical Properties: An Experimental and Theoretical Study	Scientific Reports	2020
13	Fracture Behavior of Cracked Ring Specimen at Different Crack Positions	Journal of Pressure Vessel Technology	2020
14	Corrosion and wear behavior of TiN PVD coated 304 stainless-steel	Journal of Mechanical Science and Technology	2020
15	Readiness Switching Traditional Learning Form at Saudi Arabia University as a Quick Action to the COVID-19 Virus Pandemic	International Journal of Disaster Recovery and Business Continuity	2020
16	Investigation into the morphological and mechanical properties of date palm fiber-reinforced epoxy structural composites	Journal of Vinyl and Additive Technology	2020
17	Institutional classification factors research strategy of Saudi Arabia University ranking	Trends in Research	2020
18	Structural analysis of hexagonal and solid carbon fibers composite	Polymer Testing	2020

19	An experimental study on characterization, stability and dynamic viscosity of CuO-TiO ₂ /water hybrid nanofluid	Journal of Molecular Liquids	2020
20	Investigation of fatigue crack propagation in steel pipeline repaired by glass fiber reinforced polymer	Composite Structures	2020
21	Evaluate the Mechanical and Thermal Behavioural Deformation of Auxetic Composite Nano-Carbon Fibers	ASME 2019 International Mechanical Engineering Congress and Exposition	2020
22	Investigating the effects of surface treatments on adhesion properties of protective coatings on carbon fiber-reinforced composite laminates	Surface and Coatings Technology	2020
23	Evaluation of heat irreversibility in couple stress falling liquid films along heated inclined substrate	Journal of Cleaner Production	2019
24	An experimental investigation on the effects of ultrasonication time on stability and thermal conductivity of MWCNT-water nanofluid: Finding the optimum ultrasonication time	Ultrasonics Sonochemistry	2019
25	Electrospun Nanofibers: Preparation, Characterization and Atmospheric Fog Capturing Capabilities	Fibers and Polymers	2019
26	Enhancing fire and mechanical strengths of epoxy nanocomposites for metal/metal bonding of aircraft aluminum alloys	Polymer Composite	2019
27	Investigation the conductivity of carbon fiber composites focusing on measurement techniques under dynamic and static loads	Journal of Materials Research and Technology	2019
28	Synthesis of electrospun polyacrylonitrile derived carbon fibers and comparison of properties with bulk form	Plos One	2018
29	Synthesis, analysis and simulation of carbonized electrospun nanofibers infused carbon prepreg composites for improved mechanical and thermal properties	Fibers and Polymers	2016
30	Carbonized electrospun polyacrylonitrile nanofibers as highly sensitive sensors in structural health monitoring of composite structures	Journal of Applied Polymer Science	2016
31	Mechanical and thermal properties of carbonized PAN nanofibers cohesively attached to surface of carbon fiber reinforced composites	Macromolecular Symposia	2016
32	Thermal, electrical and surface hydrophobic properties of electrospun polyacrylonitrile nanofibers for structural health monitoring	Materials	2015

9- MAJOR RESEARCH PROJECTS

#	Research Project	Status (Now/Finished)	Funded by
1	Failure Analysis of Tube Materials using nanofluid	Finished	Majmaah University
2	Nano Fluid and Composite Materials	Finished	Majmaah University
3	Preparation and Characterization nanostructures of Boron carbide B ₄ C/nanoparticles Graphene Composite Materials Used in Nuclear Shielding	Finished	Majmaah University