

1- Personal Details

Name : Saad Muteb Alshammari
Designation : Assistant 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
2023	PhD	University of Southampton	UK	Tribological characterization of TMD coatings under oil-lubricated sliding conditions
2016	MSc	University of Southampton	UK	Tribological assessment of Ni-P coatings reinforced by SiC nanoparticles
2009	BSc	King Fahd University of Petroleum and Minerals	KSA	NA

4- Professional Activities

Job Title	Place	Country	From	To
Rotating Equipment Engineer	Saudi Aramco	KSA	2011	2013
Maintenance Engineer	Saudi Aramco	KSA	2010	2011
Operation Engineer	Saudi Aramco	KSA	2009	2010

5- Teaching Experiences

#	Teaching Experiences	University	Country	From	To
1	Assistant Professor	Majmaah University	KSA	2023	Current
2	Lecturer	Majmaah University	KSA	2022	2023
3	Teaching Assistant	Majmaah University	KSA	2014	2022
4	Teaching Assistant	Shaqra University	KSA	2013	2014

6- Areas of Specialization

#	Areas of Specialization
1	Tribology of Thin Films
2	Deposition and Characterization of Thin Films
3	Self-lubricant Thin Films
4	Composite Materials
5	Materials Science

7- Current Membership in Professional Organizations

#	Membership	ID
1	American Society of Mechanical Engineers (ASME)	000103801941

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

#	Publications / Presentations	Journal (Conference)	Publishing Year (Conference Date)
1	Coaxial electrospun PEG-4000@PVDF composite membranes with intumescent flame retardants: Toward multifunctional fabrics for thermal management and ultra-safe lithium-ion battery separators	Journal of Materials Science & Technology	2025
2	Ultrathin MnO ₂ nanosheets/carbon nanotubes heterostructures via electrostatic self-assembly for high-efficiency capacitive deionization	Chemical Engineering Journal	2025
3	Performance analysis of solar aircraft in Darcy-Forchheimer kerosene oil based SWCNTs-MWCNTs nanomaterial considering solar radiation	Aerospace Science and Technology	2025
4	Polyaniline-Integrated SrZrO ₃ Composite: A Cost-Effective Catalyst for Hydrogen Evolution Reaction	Journal of Inorganic and Organometallic Polymers and Materials	2025
5	rGO-K-CD-MOFs based non-enzymatic electrochemical sensor toward sensitive hydoxycholic acid determination	Microchemical Journal	2025
6	High performance zinc-ion hybrid supercapacitors from fluorine and manganese co-doped laser-induced graphene electrodes	Journal of Alloys and Compounds	2025
7	Opportunities for Aqueous Electrolytic Zinc–Manganese Batteries	ACS Energy Letters	2025
8	Data-Driven Additive Discovery with HOMO-Descriptor Enables Durable Aqueous Zinc Batteries via Interfacial Kinetics Engineering	Advanced Materials	2025

9- Major Research Projects

#	Research Project	Status (Now/Finished)	Funded by
1	NIL	NA	NA