

CURRICULUM VITAE TEMPLATE



Position/Designation: Assistant Professor
 Department: Mathematical and Physical Sciences
 College: Arts and Sciences
 University of Nizwa, Sultanate of Oman

Personal Information
Name: Dr. Muhammad Azeem Marital Status: Married Email Address: mazeem@unizwa.edu.om Contact Numbers: 92036933
Academic Qualifications
Ph.D. Physics Victoria University of Wellington, New Zealand. April 2009 – February 2014 Thesis Title: Optical Properties of Rare Earth Nitrides M.Phil. Physics Govt. College University, Lahore, Pakistan. Sept 2006 – August 2008 Thesis title: Synthesis and characterization of carbon nanotubes. M.Sc. Physics Punjab University, Lahore, Pakistan. Sept 2003 – August 2005 Thesis Title: Identification and detailed study of various materials using the XRD technique.
Teaching Activities, Current/Previous Experience
Quantum Mechanics, Electrodynamics, Materials Physics, Modern Optics
Research Activities
(includes but not limited to research interests, conference attendance, conference presentations and publications: refereed journal, articles, books, etc.)
Research Interests: Spintronics Conference Presentations: 9 Conference Attendance: 9 Publications: 22 <ol style="list-style-type: none"> 1. M. Azeem, Q. Abbas, M.A. Abdelkareem, A.G. Olabi, Band gap and pseudocapacitance of Gd₂O₃ doped with Ni_{0.5}Zn_{0.5}Fe₂O₄, Phys. Scr. 98 (2023) 015838.

2. M. Azeem, H. Khurshid, M. Ahmad, S.S. Ali, Redshift of the optical gap in ferrite doped Gd₂O₃, *J. Appl. Phys.* 132 (2022) 175113.
3. H. Khurshid, R. Yoosuf, H. Zafar, S.B. Attanayake, M. Azeem, B.A. Issa, D.H. Anjum, H. Srikanth, From multi-segmented to core/shell nanorods: morphology evolution in Fe–Au nanorods by tuning fabrication conditions, *Nanotechnology.* 34 (2023) 185602.
4. F. Sultana, M. Mushtaq, S. Althahban, T. Ferdous, S. Firdous, A. Zaman, M. Azeem, Q. Yang, Rational Design of NiSe/ReSe₂ Nanocomposite For Efficient Electrochemical Hydrogen Evolution Reaction, *J. Electrochem. Soc.* 169 (2022) 116512.
5. S. Ahmed, M. Ahmad, M.H. Yousaf, S. Haider, Z. Imran, S.S. Batool, I. Ahmad, M.I. Shahzad, M. Azeem, Solvent-free synthesis of NiCo₂S₄ having the metallic nature, *Front. Chem.* 10 (2022).
6. M. Azeem, R. Qaisar, A. Karim, A. Ranade, A. Elmoselhi, Density Functional Model of Raman Spectra for the Seminiferous Tubules of Hindlimb Unloaded Mice, *Spectroscopy.* 37 (2022) 36–41.
7. A. A. Khan, M.T. Gul, A. Karim, A. Ranade, M. Azeem, Z. Ibrahim, G. Ramachandran, V.A. Nair, F. Ahmad, A. Elmoselhi, R. Qaisar, Mitigating sarcoplasmic reticulum stress limits disuse-induced muscle loss in hindlimb unloaded mice, *Npj Microgravity.* 8 (2022) 1–10.
8. M. Azeem, M.A. Saleem, A Raman Spectroscopic Study of Calcium Silicate Hydrate (CSH) in the Cement Matrix with CNTs and Oxide Additives, *J. Spectrosc.* 2022 (2022).
9. A. Karim, R. Qaisar, M. Azeem, J. Jose, G. Ramachandran, Z.M. Ibrahim, A. Elmoselhi, F. Ahmad, W.M. Abdel-Rahman, A. V. Ranade, Hindlimb unloading induces time-dependent disruption of testicular histology in mice, *Sci. Rep.* 12 (2022).
10. M. Azeem, M.T. Junaid, M. Azhar, Correlated strength enhancement mechanisms in carbon nanotube based geopolymer and OPC binders, *Constr. Build. Mater.* 305 (2021) 124748.
11. M. Azeem, R. Qaisar, A. Karim, A. Ranade, A. Elmoselhi, Signature molecular changes in the skeletal muscle of hindlimb unloaded mice, *Biochem. Biophys. Reports.* 25 (2021) 100930.

Faculty Administrative Experience

Outreach Committee, Annual report Committee

Community Services

Consultancy

Membership in Professional Bodies

Australian Institute of Physics
 American Physical Society
 Asian Society of Surface and Colloidal Sciences
 Materia Research Society
 MacDiarmid Institute of Advanced Materials

Awards and Recognitions