

Dr. Muhammad Zubair, PhD

Lecturer | Electronics

Department of Electronics, University of Peshawar

Phone: +92-91-9216734 | +92-333-9118143

Email: mzubair@uop.edu.pk



PROFESSIONAL PROFILE

PhD in Electronics (Materials Science) with 18+ years of University teaching experience. Expertise in Density Functional Theory (DFT), first-principles computational materials science, and Novel $A_2BB'X_6$ Double Perovskites for spintronics, optoelectronics and renewable energy. Author of 3 SCI-indexed journal publications.

EDUCATION

- **PhD Electronics**, University of Peshawar
Thesis: First-Principles Study for Probing Novel $A_2BB'X_6$ Double Perovskite Compounds
- **MScS** (Telecommunication & Networking), Gandhara University (CGPA 3.60/4.00)
- **MSc** Electronics, University of Peshawar (CGPA 3.40/4.00)

ACADEMIC EXPERIENCE

Lecturer, University of Peshawar (2008–Present)

Visiting Assistant Professor, Federal Urdu University (2007–2008).

RESEARCH PROFILE

DFT • Computational Materials Science • Double Perovskites • Spintronics • Optoelectronics • Semiconductor Materials

SCI Publications: 3 | Publishers: Springer Nature & Elsevier

SELECTED PUBLICATIONS

- Optical and Quantum Electronics (2025): Sr_2TbXO_6 ($X=Bi, Sb$).
- Computational Condensed Matter (2025): Cs_2LiSbX_6 ($X=F, I$).
- Journal of Superconductivity and Novel Magnetism (2025): Sr_2GdMO_6 ($M=Bi, Sb$).

TECHNICAL SKILLS

WIEN2k, DFT, MATLAB, OriginPro, Verilog HDL, C, MIPS, FPGA, ModelSim, Xilinx, Microwind

TEACHING AREAS

Electronics I & II, Advanced Digital Design, VLSI Design, Integrated Circuit Design, Semiconductor Materials & Devices