Curriculum Vitae

Dr. Shehzad Ahmed

Lecturer

Personal Information

Nationality	Pakistani
Department	Physics
Faculty	Faculty of Physical Sciences
University	University of Balochistan, Quetta
Mailing Address	House No. 8-A Phase 1 Shahbaz Town Quetta
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Professional Summary

Dedicated and experienced Physics Lecturer with a Ph.D. in Physics and over 17 years of teaching and research experience at the University of Balochistan. Skilled in delivering a wide range of undergraduate and postgraduate Physics courses, fostering critical thinking, and guiding research scholars in experimental and theoretical studies. Passionate about advancing scientific understanding through effective teaching, mentorship, and active participation in academic and research initiatives.

Articles published (n)	**7**						
W-Category articles (n)	**2**						
X-Category articles (n)							
Y-Category articles (n)							
Z-Category articles (n)							
Quartiles of articles (n)	**Q1**	**2**	**Q2**		**Q3**		**Q4**
Books published (n)							
Projects completed (n)	**National**		**International**				
MS./M.Phil. produced (n)	**In progress**						
Ph.D. produced (n)	**0**						
Patents registered (n)	**0**						
Honors and Awards	**Gold Medalist (M.Sc.), HEC Talent Farming Scholarship holder**						

Research Pages and Accounts

Title	Links
Web of Science	https://www.webofscience.com/wos/author/record/LTZ-5674-2024
Scopus	https://www.scopus.com/authid/detail.uri?authorId=58272269900
Google Scholar	https://scholar.google.com/citations?user=lKX2bgUAAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Shehzad-Ahmed-17?ev=hdr_xprf
ORCID	https://orcid.org/0000-0002-4812-7743
Academia	https://xix.academia.edu/ShehzadAhmed
ScholarGPS® ID	ScholarGPS® ID: 57627814528532

Areas of Research Interests/ Specialization

- Nanoscience and Technology
- Material Science
- Solid State Physics
- Synthesis of nano materials
- X-ray diffraction Analysis
- UV-Vis, Infra-red spectroscopy
- Photocatalysis
- Applications of Nano materials (waste water treatment, solar cells, antimicrobial activity etc.)

Education

Degree	Field of Study	Institution	Year
Ph.D.	Physics	University of Balochistan	2024
M.Phil.	Physics	University of Balochistan	2016
M.Sc.	Physics	University of Balochistan	2006
B.Sc.	Physics, Chemistry, Math	University of Balochistan	2004

Honors and Awards

Title of Award (s)	Institutions	Year
Gold Medal (M.Sc.)	University of Balochistan	2007
HEC Talent farming scholarship	Higher Education Commission of Pakistan	2004-2005

Thesis/Dissertations

Thesis Title	Degree	University	Year
Synthesis, Characterization and Applications of Metal Oxide Nanoparticles for Photocatalysis	Ph.D.	University of Balochistan	2024
Synthesis of nanorods for energy harvesting.	M.Phil.	University of Balochistan	2016

Professional Experience

Position	Institution/Organization	Duration	Responsibilities
Lecturer	University of Balochistan	From 25-6-2007 to date	Teaching and Research

Academic Appointments

Position	Institution	Duration	Years
Lecturer	University of Balochistan	19 + years	2007 till date

Administrative Roles (Internal at UoB)

Role	Institution	Years
Coordinator M.Sc. Program	University of Balochistan	2020 to 2023
Focal Person UOB (DIMS)	University of Balochistan	2023 till present

Courses Taught

Course Title	Level	Years
Solid state Physics, Electromagnetic theory	M.Phil./Ph.D.	Since 2020
Solid state Physics	M.Sc.	Since 2007
Solid state physics-I, Solid state Physics-II, Properties of matter, Atomic and Molecular Physics, Environmental Physics	BS	Since 2018

Courses Developed

Course Title	Level	Years
Solid state Physics, Electromagnetic theory	MS/M.Phil./Ph.D.	2022
Solid state physics-I, Solid state Physics-II, Properties of matter, Atomic and Molecular Physics, Environmental Physics	BS	2020
Solid state Physics	M.Sc.	2018

Publications

No.	Journal Articles	Category / Impact Factor
1.	Ahmed, S., Kasi, J. K., Kasi, A. K., Bokhari, M., Bilal, A., & Ali, S. W. (2023). Phyto-mediated synthesis of enhanced band gap ZnO and TiO_2 nanoparticles using Pisum sativum peels extract: comparison of their structural, optical, photocatalytic and antifungal characteristics. Chemical Papers, 77(12), 7697-7715.	**W / IF = 2.5**
2.	Bilal, A., Kasi, J. K., Kasi, A. K., Bokhari, M., Ahmed, S., & Ali, S. W. (2022). Environment friendly synthesis of nickel ferrite nanoparticles using Brassica oleracea var. capitate (green cabbage) as a fuel and their structural and magnetic characterizations. Materials Chemistry and Physics, 290, 126483.	**W / IF: 4.778**
3.	Kakar, N. S., Kasi, J., Bilal, A., Akbar, A., Ahmed, S., & Ali, S. W. (2023). Green Synthesis of Nickel (Ni) Nanoparticles using Garlic Extract, Characterizations, and their Antimicrobial Activities.	
4.	Iraj, B., Kasi, J. K., Bilal, A., Kasi, A. K., Ahmed, S., & Ali, S. W. (2024). Environment-friendly synthesis of copper ferrite nanoparticles and their characterizations. Journal of research, 10(12), 66-70.	
5.	Kakar, F. M., Kasi, J. K., Bilal, A., Ahmed, S., Kasi, A. K., & Ibrahim, I. (2025). Ecological Sound Synthesis of ZnO Nanoparticles, Their Structural Characterization and Application in Wastewater Remediation: https://doi. org/10.5281/zenodo. 17016378. *Materion*, *2*(1), 14-20.	
6.	Achakzai, A., Kasi, J. K., Bilal, A., Kasi, A. K., Ahmed, S., & Ali, S. W. (2024). Brassica Rapa Extract-Mediated Green Synthesis of Zn-Doped Nickel Ferrite Nanocomposites and its Characterization. *Journal Of Nanoscope (JN)*, *5*(2), 147-157.	

7.	Zahida, B., Kasi, J. K., Bilal, A., Ahmad, S., Ali, S. W., & Kasi, A. K. (2024). Green Synthesis of Cobalt Doped Nickel Ferrite Nanoparticles via Extract of Vitis Vinifera and its impact on Structural, Optical and Magnetic Properties. *Journal of Nanoscope (JN)*, *5*(2), 101-118.	

Citations (As of 25 March 2026)

Google Scholar	
Citations	**42**
Publications	**7**
h-index	3
i-10 index	1
Web of Science	
Citations	29
Publications	2
h-index	2

Conferences Presentations with Abstracts Publications

Year	Title	Conference	Location
2018	Synthesis of nanorods for energy harvesting.	1st international conference on material science and nanotechnology	University of Balochistan Quetta

Conferences Organized

Year	Title	Conference	Location
2018	1st international conference on material science and nanotechnology	1st international conference on material science and nanotechnology	University of Balochistan Quetta

Workshops and Seminars Attended

Title	Workshop/Seminar Name	Location	Year	Role
Applied Vacuum technologies	Applied Vacuum technologies	NINVAST Islamabad	2014	Participant

Short Courses/ Trainings Attended

Training/Short Course Name	Location	Year
Semester system and its implementation	FTDC, University of Balochistan, Quetta.	2017
Incorporating Technology in education	University of Balochistan Quetta	2011

Research Supervision

Name of Students	Thesis Title	M.Phil. Degree	Year
Shoaib Ahmed	Synthesis of semiconductor nanoparticles for application in dye sensitized solar cell.	M.Phil.	In progress

Faiqa Tariq	Green synthesis of cu doped ZnO nanoparticles and their applications.	M.Phil.	In progress

Technical/Laboratory Skill Set

Skills	Levels
Project Planning	Expert
Project Designing and Implementation	Advanced
Data Collection Tools Development	Expert
Quantitative Data Analysis	Expert
Qualitative Data Analysis	Expert
Grant writing	Advanced

Languages Proficiency

Language	Proficiency
English	Read, write, understand, speak
Urdu	Read, write, understand, speak

Softwares/ Analytical Tools

Software	Proficiency
MS Office	Advanced
Xpert High Score	Advanced
Design Expert	Advanced
Origin	Advanced
Others	

References

1.	Name	Prof. Dr. Jafar Khan Kasi
	Institution	University of Balochistan, Quetta
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2.	Name	Prof. Dr. Muzamil Ali Bokhari
	Institution	University of Balochistan, Quetta
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