


Curriculum Vitae

Dr. Ahmed Bilal

Lecturer

Personal Information

Nationality	Pakistani	
Department	Physics	
Faculty	Faculty of Physical Sciences	
University	University of Balochistan, Quetta	
Mailing Address	House No. 78-A, Jaffar khan Jamali Road Chaman Phatak Quetta	
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Professional Summary

Dedicated and passionate Physics Lecturer with over 18 years of experience in teaching and research at the University of Balochistan. Holding a Ph.D. in Physics, I specialized in delivering a wide array of undergraduate and postgraduate courses, nurturing critical thinking, and mentoring students and research scholars. I am now seeking opportunities to further enhance my academic and research involvement, while continuing to inspire the next generation of scientists

Articles published (n)	8				
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.)				

Research Pages and Accounts

Title	Links
Web of Science	https://www.webofscience.com/wos/author/record/PTF-3518-2026
Google Scholar	https://scholar.google.com.pk/citations?user=eJaBMz8AAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Ahmed-Bilal-27?ev=prf_overview
ORCID	https://orcid.org/0000-0001-5968-883X
Academia	https://xix.academia.edu/abilal

Areas of Research Interests/ Specialization

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	2004
B.Sc.	Physics, Math, Statistics	University of Balochistan	2001

Honors and Awards

Title of Award (s)	Institutions	Year
Gold Medal (M.Sc.)	University of Balochistan	2004

Thesis/Dissertations

Thesis Title	Degree	University	Year
Environment-friendly Synthesis of Nanoparticles, Their Characterizations and Application for Waste Water Treatment	Ph.D.	University of Balochistan	2024
Synthesis Of Magnetic Nanorods	M.Phil.	University of Balochistan	2016

Professional Experience

Position	Institution/Organization	Duration	Responsibilities
Lecturer	University of Balochistan	From 25-6-2007 to till date	Teaching at graduate and post graduate level

Academic Appointments

Position	Institution	Duration	Years
Lecturer	University of Balochistan		2007 till date

Administrative Roles (Internal at UoB)

Role	Institution	Years

Courses Taught

Course Title	Level	Years
Characterization of Solid Surfaces, Biophysical techniques & instrumentation	Ph.D.	
Mathematical Method of Physics, Electronics	M.Sc.	
Electronics I, Electronics II, Waves & Oscillation, Introduction to Statistics and Probability, Quantitative Reasoning, Nuclear Physics	BS	

Courses Developed

Course Title	Level	Years

Publications

No.	Journal Articles	Category/ Impact Factor
1.	Environment friendly synthesis of nickel ferrite nanoparticles using Brassica oleracea var. capitata (green cabbage) as a fuel and their structural and magnetic characterizations (2022) Materials Chemistry and Physics, 290, 126483.	W/4.7
2.	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 (2023) Chemical Papers, 77(12), 7697-7715.	W/2.5
3.	Green Synthesis of Nickel (Ni) Nanoparticles using Garlic Extract, Characterizations, and their Antimicrobial Activities (2023)	
4.	Ecological Sound Synthesis of ZnO Nanoparticles, Their Structural Characterization and Application in Wastewater Remediation (2025) Materion, 2(1), 14-20	
5.	Brassica Rapa Extract-Mediated Green Synthesis of Zn-Doped Nickel Ferrite Nanocomposites and its Characterization (2024) Journal Of Nanoscope (JN), 5(2), 147-157.	
6.	Green Synthesis of Cobalt Doped Nickel Ferrite Nanoparticles via Extract of Vitis Vinifera and its impact on Structural, Optical and Magnetic Properties (2024) Journal of Nanoscope (JN), 5(2), 101-118.	
7.	Assessing The Quality of Buffalo Milk from a Coal Mining Region: Physicochemical Attributes and Heavy Metal Analysis by Atomic Absorption Spectroscopy	
8.	Environment-Friendly Synthesis Of Copper Ferrite Nanoparticles And Their Characterizations	

Citations (As of 25 September 2025)

Google Scholar

Citations	42
Publications	2
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
2016	Synthesis of Cobalt magnetic nanorods by DC Electrodeposition in AAO Template	3 rd Conference on Nanoscience science and Nanotechnology	Pakistan Institute of Nuclear science and Technology
2016	Fabrication of Ferromagnetic Nickle Nanorods Using Anodic Aluminum Oxide as a substrate	International Conference on Advanced Materials and Emerging Technologies	University of Engineering and Technology Lahore

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
Rozi khan	Green synthesis of Ni-Doped ZnO NPs Using Red Cabbage Leaf Extract and its Solar Application	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
MS excell	Advanced
MS Paint	Advanced
MS paint 3D	Advanced
Xpert High Score	Advanced
Design Expert	Advanced
Origin	Advanced

References

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