

Curriculum Vitae

Dr. Syed Muzamil Bokhari
Professor

Personal Information

Nationality	Pakistani	
Department	Physics	
Faculty	Faculty of Physical and Environmental Sciences	
University	University of Balochistan, Quetta	
Mailing Address	Department of Physics, Office # F-23, University of Balochistan, Quetta	
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Professional Summary

Academic and research leader with 19+ years of experience in higher education, research development, and university administration. Currently serving as Director, ORIC (since 2021), previously Manager Research Operations, ORIC (2017–2021), with strong expertise in research promotion, academic systems, and industry–academia collaboration. Holds a PhD and MS in Telecommunication Engineering from AIT, Thailand, and an MSc in Physics (Distinction) from the University of Balochistan.

Specialized in optical communications, telecommunication networks, and nanotechnology, focusing on energy-efficient and emerging technologies. Author of 55+ peer-reviewed international publications in optical networks, visible light communication, photonic devices, and renewable energy applications. Active in teaching, supervision, and institutional research leadership since 2007.

Articles published (n)	55			
W-Category articles (n)	20			
X-Category articles (n)	10			
Y-Category articles (n)	25			
Books published (n)				
Projects completed (n)	National	2	International	
MS./M.Phil. produced (n)	11			
Ph.D. produced (n)	01			
Patents registered (n)	(One submitted)			
Honors and Awards	Best Paper Award in 3M Nano International conference held at Suzhou, China 26-30 Aug. 2013.			

Research Pages and Accounts

Title	Links
Web of Science	https://www.webofscience.com/wos/author/record/AAE-9215-2022
Scopus	https://www.scopus.com/authid/detail.uri?authorId=55619394200

Google Scholar	https://scholar.google.com/citations?hl=en&user=0F-EcoYAAAAI
ResearchGate	https://www.researchgate.net/profile/Muzamil-Bokhari-3?utm_source=chatgpt.com
ORCID	https://orcid.org/0000-0003-3282-7777
Academia	https://xix.academia.edu/MuzamilBokhari
ScholarGPS® ID	https://scholargps.com/scholars/23082154490984/muzamil-bokhari

Areas of Research Interests/ Specialization

▪ Quantum Information Theory, Optical Communications and Networks
▪ Visible Light Communications System, Channel Characterization
• MEMS, NEMS & Nano Fabrication, Photonic devices & fabrication
▪ Dye sensitized solar cells
▪ Solar thermal systems

Education

Degree	Field of Study	Institution	Year
Ph.D.	Telecommunications	Asian Institute of Technology (AIT)Thailand	2013
M.Phil./MS	Telecommunications	Asian Institute of Technology (AIT)Thailand	2010
M.Sc.	Physics	University of Balochistan, Quetta Pakistan	2000
PGD-IT	ICT	COMSATS, Islamabad	2001

Honors and Awards

Title of Award (s)	Institutions	Year
3 rd Position in MSc Physics	University of Balochistan, Quetta Pakistan	2000

Thesis/Dissertations

Thesis Title	Degree	University	Year
Investigation of Transmission Coverage for Indoor Optical Wireless Communications Using ASAP	Ph.D.	Asian Institute of Technology (AIT)Thailand	2013
Investigation of Transmission Coverage for Indoor Optical Wireless Communications Using ASAP	MS	Asian Institute of Technology (AIT)Thailand	2010

Scholarships and Post-Doctoral Fellowships

Academic Appointments

Position	Institution	Duration	Years
Professor	University of Balochistan, Quetta Pakistan	Jan. 2024 to date	2.5 years

Associate Professor	University of Balochistan, Quetta Pakistan	Oct. 2020 to Dec 2023	3 years
Assistant Professor	University of Balochistan, Quetta Pakistan	Aug. 2013 to Oct 2020	7 years
Lecturer	University of Balochistan, Quetta Pakistan	July 2007 to October 2012	5 years
Lecturer	Govt Science College Quetta	April 2006 to July 2007	1 year
Lecturer	Garrison Academy Quetta	July 2002 to April 2006	4 years

Administrative Roles (Internal at UoB)

Role	Institution	Years
DIRECTOR	ORIC-UoB	From 2021 to Date
Manager Research Operations	ORIC-UoB	From 2016 to Oct 2021

Courses Taught

Course Title	Level	Years
EMT-I & II	BS Physics	From 2017 to Date
EMT	MSc Physics	10 Years
Heat & Mass Transfer	BS Renewable Energy	From 2018 to 2022
Optics	BS Physics	From 2018 to Date
Research Methodology	MS/M.Phil Physics	11 Years
Telecom Networks	MS/M.Phil Physics	11 Years
Satellite Communication	Ph.D Physics	From 2014 to date
Optical Networks	Ph.D Physics	From 2016 to Date

Courses Developed

Course Title	Level	Years
EMT I & II	BS	
Optics	BS	
Heat & Mass Transfer	BS	
Research Methodology	MS/M.Phil	
Telecom Networks	MS/M.Phil	
Satellite Communication	Ph.D	
Optical Networks	Ph.D	

Publications

Selected Journal Articles		
No.	Title	Category/Impact Factor
1.	Rohi, H., Kasi, A. K., Kiran, S., Ullah, A., Kasi, J. K., & Bokhari, M. (2025). Template-assisted growth of micro-excavated PDMS layer for fabrication of free standing TENG and its application as a self-powered sensor for Oscillation. <i>Journal of Polymer Research</i> , 32(8), 276.	W / IF: 2.80

2.	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 = 2.146
3.	Ayaz, M., Khan Kasi, J., Khan Kasi, A., Bokhari, M. , & Boschloo, G. (2022). Improved dye regeneration through addition of a triphenylamine electron donor in iodide-based electrolytes for dye-sensitized solar cells. ACS Applied Energy Materials, 5(4), 4240-4246.	W / IF: 6.959
4.	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. capitata (green cabbage) as a fuel and their structural and magnetic characterizations. Materials Chemistry and Physics, 290, 126483.	W / IF: 4.778
5.	Hafeez Ullah, Muhammad Sohail, Muzamil Bokhari , (2022). Dynamic range of LED in optical OFDM for PAPR performance analysis . Optical and Quantum Electronics, 54(11), 742.	W / IF: 4.0
6.	Rafique, S., Kasi, A. K., Kasi, J. K., Bokhari, M. , & Shakoor, Z. (2021). Fabrication of Br doped ZnO nanosheets piezoelectric nanogenerator for pressure and position sensing applications. Current Applied Physics, 21, 72-79.	W / IF: 3.1
7.	Ayaz, Muhammad; Kasi, Jafar Khan; Kasi, Ajab Khan; Bokhari, Muzamil , Natural Plant Trifolium Pratense, Mirabilis Jalapa and Bassia Scoparia Extract Used as Photosensitizer in Dye-Sensitized Solar Cell, Iranian Journal of Chemistry and Chemical Engineering: 40(3) 872.	W / IF: 1.8
8.	Aminullah, A. K. K., Najma, B., Kasi, J. K., Rafique, S., & Bokhari, M. (2020). Fabrication of piezoelectric nanogenerator using 3D-ZnO nanosheets and optimization of charge storage system. Materials Research Bulletin, 123, 110711.	W / IF:5.600
9.	Kasi, A. K., Kasi, J. K., Uddin, M., & Bokhari, M. (2020). Triboelectric nanogenerator as self-powered impact force sensor for falling object. <i>Current Applied Physics</i> , 20(1), 137-144.	W / IF: 2.856
10.	S Rafique, AK Kasi, JK Kasi, Aminullah, M Bokhari , Z Shakoor Fabrication of silver-doped zinc oxide nanorods piezoelectric nanogenerator on cotton fabric to utilize and optimize the charging system Nanomaterials and Nanotechnology 10, 1847980419895741	W / IF: 3.3
11.	AK Kasi, JK Kasi, M Uddin, M Bokhari , Triboelectric nanogenerator as self-powered impact force sensor for falling object Current Applied Physics 20 (1), 137-144	W / IF : 3.1
12.	Muhammad Ali, Jafar Khan Kasi, Ajab Khan Kasi, Muzamil Bokhari , Muhammad Latif, Muhammad Ayaz, “The efficiency of Solar Cooker in Quetta (Pakistan) Region”, Polish Journal of Environmental Studies, Vol.28 Issue.6, (2019) 4213–4220	W / IF: 1.871
13.	M Latif, AK Kasi, JK Kasi, M Bokhari , Strengthening of alumina tubular membrane by Al support and its application for oil-in-water stable emulsion Microelectronic Engineering 218, 111134	W / IF: 4.3
	2018 (3)	
14.	Bibi Najma, Ajab Khan Kasi, Jafar Khan Kasi, Ali Akbar, Muzamil Bokhari , Izabela RC Stroe, ZnO/AAO Photocatalytic Membranes for Efficient Water Disinfection: Synthesis, Characterization and Antibacterial Assay, Applied Surface Science 448 (2018) 104–114	W / IF: 7.392

15.	Aminullah, Ajab Khan Kasi, Jafar Khan Kasi, Muzamil Bokhari , “Fabrication of mechanically stable AAO membrane with improved fluid permeation properties” Microelectronic Engineering, Vol.187-188c (2018) 95-100.	W / IF:2.662
16.	Aminullah, Ajab Khan Kasi, Jafar Khan Kasi, Muzamil Bokhari , “Fabrication of mechanically stable AAO membrane with improved fluid permeation properties” Microelectronic Engineering, Vol.187-188c (2018) 95-100	W / IF:2.662
	2016 (2)	
17.	Muzamil Bokhari , Muhammad Sohail, Jafar Khan Kasi, and Ajab Khan Kasi, Performance analysis of passive optical networks with energy saving through the integrated sleep mode, Optical Switching and Networking 21,(2016)16-30	W / IF: 3.419
18.	Samiullah, Ajab Khan Kasi, and Jafar Khan Kasi, Growth of ZnO Nanoneedles by Thermal Oxidation of Metallic Zinc Microparticles in Air, International Journal of Chemical Engineering 3 (2016) 10-13	W / IF:2.729
	2013 (1)	
19.	M Bokhari , P Saengudomlert, Analysis of mean packet delay for upstream transmissions in passive optical networks with sleep mode Optical Switching and Networking 10 (3), 195-210	W / IF: 3.1

Citations (As of 15 July 2026)

Google Scholar	
<u>Citations</u>	419
Articles	35
<u>h-index</u>	12
<u>i10-index</u>	12
Web of Science	
Citations	316
Publications	23
h-index	9

Conferences Presentations with Abstracts Publications

Conference Title Year and Location
1. Jafar Khan Kasi, Ajab Khan Kasi, Muzamil Bokhari and Muhammad Sohail, Characterization of Cracks in Tubular Anodic Aluminum Oxide Membrane, the World Conference on Engineering and Applied Sciences (WCEAS-2016), Kuala Lumpur, Malaysia, May 28-29, 2016.
2. Jafar Khan Kasi, Ajab Khan Kasi and Muzamil Bokhari , Study of Cracks in mom Planar Anodic Aluminum Oxide Membrane,3rd International Conference on Agricultural, Biotechnology, Biological and Biosystem Engineering (ICABBBE 2016), Jakarta, Indonesia, December 16-17, 2016.
3. Muhammad Latif, Ajab Khan Kasi, Jafar Khan Kasi, Muzamil Bokhari and Muhammad Sohail, “Fabrication and application of AAO tubular membrane system for water filtration”, 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.

4. Moiz-uddin, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail, “Design and development of microinduction device for charging energy storage components in microrobots ”, 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.
5. Aminullah, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail, “Enhancement of Mechanical stability of AAO membrane by Al mesh structure” 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.
6. Sabiha Ajmal, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail, “Fabrication and Application of TiO₂ membrane for drinking watertreatment”, 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.
7. Samiullah, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail, “ZnO nanoballons based perovskite solar cell”, 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.
8. Sumera Rafique, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail, “Fabrication of ZnO piezoelectric nanogenerator by utilizing Cu nanorods top electrode”, 2nd conference on Frontiers of Nanoscience and Nanotechnology, Islamabad, Pakistan. September 08-10, 2015.
9. Shamsullah Kakar, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bukhari**, “Fabrication of anodic aluminum oxide (AAO) membrane based microfluidic filtration device”, International Conference on Inventive Research in Science and Technology (ICIRST 2016), Pattaya, Thailand, April 16-17, 2016.
10. Jafar Khan Kasi, Muhammad Ayaz, Ajab Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail “Eventually Dye Sensitized Solar Cell Moving Towards Naturel”, 314th International conferences on Engineering and Natural Science (ICENS) 1st - 2nd January, 2018 Kuala Lumpur, Malaysia
11. Huzaiifa Durrani, Jafar Khan Kasi, Muhammad Sohail, **Muzamil Bokhari** and Ajab Khan Kasi, Implementation of unipolar OFDM based VLC transmission system under dimming constraint for high speed data through FPGA, 14th international conference on recent trends in Engineering and technology (RTET-2018) Pattaya, Thailand, April 24-26, 2018
12. Aleena Zahid, Ajab Khan Kasi, Jafar Khan Kasi, and **Muzamil Bokhari**, Fabrication of Minidialyzers using anodic aluminum oxide and polysulfone membrane and their comarative study for hemodialysis, 14th international conference on recent trends in Engineering and technology (RTET-2018) Pattaya, Thailand, April 24-26, 2018
13. Hikmatullah, Ajab Khan Kasi, Jafar Khan Kasi and **Muzamil Bokhari**, Fabrication of DSSCs using optimised length of Titania nanotubes on Ti substrate as an electron transporting medium, 14th international conference on recent trends in Engineering and technology (RTET-2018) Pattaya, Thailand, April 24-26, 2018
14. Syed Najeebullah, Ajab Khan Kasi, Jafar Khan Kasi, **Muzamil Bokhari**, M. Sohail, Design, Development and Control of Long Range Quadcopter, 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018
15. Hikmatullah, Ajab Khan Kasi, **Muzamil Bokhari**, Muhammad Sohail, Effect of TiO₂ Nanotubes Length on the Performance of DSSCs on Ti Substrate, 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018
16. Sabiha Ajmal, **Muzamil Bokhari**, Ajab Khan Kasi, Jafar Khan Kasi, Muhammad Sohail, Desalination of Dye from Water through Nanoporous TiO₂, 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018

17. Muhammad Tariq, Jafar Khan Kasi, Ajab Khan Kasi, **Muzamil Bokhari**, Electroplating for ZnO Based Biosensor, 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018
18. Syed Waseem Raza, **Muzamil Bokhari**, Jafar Khan Kasi, Ajab Khan Kasi, Dye-sensitized solar cell performance compared with different solvents in the electrolyte, 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018
19. Muhammad Usman, Jafar Khan Kasi, Ajab Khan Kasi, **Muzamil Bokhari**, Fabrication of Comb-like Humidity Sensor Based on ZnO Nanomaterials 1st International conference on material science and Nanotechnology 2018 (ICMSN-2018), Quetta, Pakistan, September 3-4, 2018
20. Jafar Khan Kasi, Sana Idrees, Ajab Khan Kasi, **Muzamil Bokhari** and Muhammad Sohail “Microchannel Based Filter Fabrication Using Anodic Aluminum Oxide (AAO) Membrane”, International Conference on Chemical and Biochemical Engineering (ICCB) 5th -6th December, 2018, Krabi, Thailand

Conferences Organized

Year	Conference Title	Location
2018	1 st International conference on material science and Nanotechnology 2018 (ICMSN-2018), September 3-4, 2018	Quetta, Pakistan,
2024	1 st International conference of the Linguistic Association of Pakistan (ICLAP), Oct. 2024	UoB

Workshops and Seminars Attended

Title	Workshop/Seminar Name	Location	Year	Role
1.	Muzamil Bokhari and Poompat Saengudomlert, “Integrated Sleep Mode for Improving Energy Efficiency of NG-PONs”, ICOCN The 11th International Conference on Optical Communications and Networks (ICOCN 2012).			
2.	Two-day Seminar on Technology Search and the Development of Technology and Innovation Support Centers (TISCs) at IBA Karachi WIPO and Higher Education Commission Pakistan on 23-24 Oct. Capacity-building and annual evaluation initiative hosted at the IBA Karachi campus by and Higher Education Commission Pakistan 2023.			
3.	Two days training Workshop on “ Semester System in UoB ”, conducted by Faculty Training and Developing Center (FTDC) University of Balochistan, Quetta, June 18-19, 2014.			
4.	“ Project Formulation Workshop ” held on 22-23 October, 2014 at Balochistan university of Information Technology, Engineering and Management Sciences, Quetta, organized by Pakistan Science Foundation, Islamabad.			
5.	One day workshop on “ Developing industries driven technologies ” conducted by ORIC, University of Balochistan, Quetta, with the celebration of Institute of Research Promotion, April 14, 2015.			

Research Supervision

Name of Students	Thesis Title	Ph.D. Degree	Year
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- 1- Sabiha Ajmal, Thesis Title: “Fabrication of Nanoporous Membranes of TiO₂ On Different Substrates And Their Application for Water Treatment”., graduated in **2021**

Name of Students	Thesis Title	M.Phil. Degree	Year
1.	Benish Durrani, M.Phil. Thesis Title: Fabrication of ZnO nanostructures and its application as O ₂ gas sensor, graduated in Nov. 2017.		
2.	Maqbool Ahmad Porkani, M.Phil. Thesis Title:- Design and Analysis of Ultrawide Band Antenna and its applications, graduated in March 2019.		
3.	Sherzada Khan, M.Phil. Thesis Title: :- Fundamental Analysis of Visible Light Communication System Integrated with PLC, graduated On 25 June 2020.		
4.	Syed Wasim Raza, M.Phil. Thesis Title: :- Fabrication Of Dye Sensitized Solar Cell With Enhanced Stability Of Electrolyte Solvents, graduated On 25 June 2020.		
5.	Nabeela Khan, Title: ATMOSPHERIC OZONE COLUMN AND ITS LONG TERM VARIATION OVER QUETTA, graduated in March, 2021		
6.	Bakhtawar Maqsood , Title: Design And Fabrication Of Conductive Polymer Strain Sensor, graduated in Oct. 2020		
7.	Manahil Farooq , Title: Synthesis, Real Time Facial Emotion Recognition Application in Robotic Systems, graduated in Sept., 2025		
8.	Muhammad Haroon , Finite Elements Analysis of Composite Materials in Pressure Vessel Construction, In progress		

Research Projects/Grants and Funding

Project Title	Funding Agency	Amount (millions)	Years	Role
1.	Nano Physics & Nano Technology Laboratory Strengthening by HEC;	2.2M PKR	2018-20.	

University Committees Memberships

Name of Committee	Roles	Year
1.	Member, Senate University of Balochistan Quetta, (March 2022 to Date)	
2.	Member, Syndicate University of Balochistan Quetta, (March 2022 to Date)	
3.	Member, Academic Council University of Balochistan Quetta, (March 2022 to Date)	
4.	Member, Advanced Studies & research Board (AS&RB) University of Balochistan Quetta, (March 2022 to Date)	
5.	Member, Tenure track system (TTS) committee University of Balochistan Quetta.	
6.	Member, Various Administrative Committees at University of Balochistan Quetta.	

Memberships of Professional Organizations

Name of Organization	Roles
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1. Member, **National Technology Council (NTC) Pakistan (2015).**

Editorial Board / Reviewer Roles

Name of Journal	Role	Publisher	Since (Year)
1. Member Editorial Board of international journal, Nanoscience and Nanoengineering , Horizon Research Publishing Corporation, CA 95134, USA			
2. Member Editorial Board of Iranian Journal of Chemistry and Chemical Engineering			
3. Member Technical Committee of 5th International Conference on Chemistry and Chemical Engineering (ICCCE 2014), August 6-7, 2014 in Singapore.			
4. Member of the Editorial board during the year 2013 in international journal News in Engineering (ISSN: 1339-4886) , Publisher: \Publishing Society Ltd., Zilina, Slovakia			
5. Member Reviwing committee in the international peer-reviewed, scientific and technical journal Bahria University Journal of Information and Communication Technologies (BUJICT) (ISSN: 1999-4974)			
6. Member Internal Reviwing Committee (IRC) / Provencial Reviwing Committee (PRC) for Balochistan Text Book (Since 2014).			
7. Member Advisory board, Techno-Science, Scientific Journal of Mehmet Akif Ersoy University, Turkey			