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Raina Aman Qazi

Dedicated Pakistani national with a strong background in Physical Chemistry. Demonstrated expertise as an Assistant Professor and a commitment to academic excellence. Skilled in research, teaching, and fostering a positive learning environment.

PERSONAL DATA

Father's name:	Qazi Aman Ullah
Gender:	Female
Nationality:	Pakistani
Country of Residence:	Pakistan
Orcid Id:	https://orcid.org/0000-0002-7402-8335

Experience	**Lecturer in Chemistry** Department of Chemistry, Women University Mardan, KPK Pakistan Duration: 10 Nov 2023 – Till date **Assistant Professor (Contract: one year)** Department of Chemistry, Shaheed Benazir Bhutto Women University, Peshawar Duration: 17 May 2022 -16 May 2023 **Lecturer in Chemistry:** Department of Chemistry, Shaheed Benazir Bhutto Women University, Peshawar Duration: 2 April 2019 till 17 May 2022 **Lecturer** Islamia degree college for girls, Peshawar. Duration: 1st August 2018 to 30 March 2019
Qualification	**M.Sc.:** Chemistry, Institute of chemical sciences University of Peshawar, Peshawar. **M.Phil :** Physical Chemistry, National Centre of Excellence University of Peshawar, Peshawar. **Ph.D.**: Physical Chemistry, National Centre of Excellence University of Peshawar, Peshawar.

	B. Ed: Institute of Education and Research University of Peshawar, Peshawar. **M. Ed:** Institute of Education and Research University of Peshawar, Peshawar.
Honor and Awards	• Scholarship awarded by National Centre of Excellence University of Peshawar, Peshawar, during M.Phil. Project. • Certificate of recognition for encouraging Silver medalist researcher in 20th INEPO (international Environmental Project Olympiad) held in Istanbul on May 19-22-2012. • Merit Certificates for showing hundred percent result in School Annual Examinations of B.I.S.E. Peshawar. • Best Performance certificate awarded for the year 2013, Agriculture University Public School and College (girls), Peshawar, KPK.
Memberships	Chemical Society of Pakistan
Service Activity	• Certificate of Attendance: 1-hour training session on Wolters Kluwer OVID Database held on 11th October 2022 Online • Certificate of Attendance: 1-hour training session on IEEE Standards: What, Why & How? held on 22nd June, 2022. Online • Certificate of Attendance: Incorporating IEEE Xplore resources into your teaching: A dedicated session for lecturers held on 8th June, 2022. Webinar • Two day workshop on "Promoting Research Excellence in Academics across Pakistan" (1st and 2nd February, 2022) at Higher Education Commission, Pakistan • Certificate of Attendance: An hour training session on Getting started with Refworks (ProQuest Education). Tuesday February 1, 2022 • Certificate of Participation: OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH), Islamabad, June 14th – 15th 2022 • Participation in 19th International and 31st National Conference on Emerging Trends in Chemistry, Duration 16-18 2021, at **UMT Lahore** • Oral Presentation in 6th International Multidisciplinary Research Conference on "Global Prosperity through Research and Sustainable Development" organized by **Abdul Wali khan University Mardan**

	• Certificate of Participation in recognition of attending training on "Filling of Income Tax Return" at **Shaheed Benazir Bhutto Women, University**, Peshawar, 23rd September 2021 • Two-day national seminar on "Healthy food: A tool for quality life" at **Shaheed Benazir Bhutto Women, University**, Peshawar, April 18-19, 2019. • One day guiding workshop and panel discussion on M. Phil/PH. D. admission to completion April, 2014, **NCPC, University of Peshawar**. • Certificate of recognition for encouraging Silver medalist in the 20th in 20th INEPO (International Environmental Project Olympiad) held in **Istanbul** on May 19-22-2012. • Participation in 20th INEPO (International Environmental Project Olympiad) held in **Istanbul** on May 19-22-2012.
Book Chapter	• Handbook of Nanomaterials, Volume 2. Chapter 20: Nanomaterials in water purification/desalination, DOI: https://doi.org/10.1016/B978-0-323-95513-3.00030-7, Elsevier, 2023. • Nanobiotechnology; Application- & Commercialization-CRCPress/Noval polymer based composit materials using biogenic nanoparticles. Submitted to CRC press taylor & francis group
Brief Statement of Research Interest	Gas/Humility sensors, electrical, Thermal, and mechanical properties of Polymer nanocomposites. Modification of CNTs, Adsorption studies, Kinetics studies
Reviewer	• review contributed to the journal "***Chemical Physics Letters***" • Review contributed to the journal "***Food Packaging and Shelf Life***"
Patents Submitted	• Patent Application No. 581/2021, Receipt No. 2104709, Filing Date: 11/08/2021 • Patent Application No. 667/2022, Receipt No. 22041031, Filing Date: 10/10/2022
Publications	1. **Qazi RA**, Aman N, Ullah N, Jamila N, Bibi N. Recent advancement for enhanced e. Coli detection in electrochemical biosensors. Microchemical Journal. 2023 Nov 21:109673. https://doi.org/10.1016/j.microc.2023.109673, **HEC Category /Impact Factor: w/4.8,** ISSN: 1095-9149 2. Bibi N, **Qazi RA**, Kanwal A, Jamila N, Khattak R, Hassan W, Wasil Z. Nanomaterials in water purification/desalination. InHandbook of Nanomaterials, Volume 2 2024 Jan 1 (pp. 549-

	578). Elsevier. 3. Ihsan S, **Qazi RA**, Jamila N, Bibi N, Wasil Z, Khan N. Biogenic gold nanoparticles of Salvia species in dyes degradation and detection of lead (II). International Journal of Environmental Science and Technology. 2024 Apr 15:1-4. 4. **Qazi RA**, Ullah N, Bibi N, Khattak R, Jamila N, Begum B, Aman N, Rahayu F, Karami AM. Amine-Functionalized MWCNTs for the Removal of Mordant Black 11 Dye. Water, Air, & Soil Pollution. 2023 Oct 5;234(10):644. 5. **Qazi RA**, Khattak R, Ali Shah L, Ullah R, Khan MS, Sadiq M, Hessien MM, El-Bahy ZM. Effect of MWCNTs Functionalization on Thermal, Electrical, and Ammonia-Sensing Properties of MWCNTs/PMMA and PHB/MWCNTs/PMMA Thin Films Nanocomposites. Nanomaterials. 2021 Oct 6;11(10):2625.https://doi.org/10.3390/nano11102625 **HEC Category /Impact Factor: w/5.3,** EISSN 2079-4991 6. **Qazi RA**, Ali Shah L, Ullah R, Khattak R, Sadiq M, Saleem Khan M. Synthesis, characterization, and ammonia sensing performance of poly (3-hydroxybutyrate) grafted multiwall carbon nanotubes. Polymer-Plastics Technology and Materials. 2022 Jan 2;61(1):93-106. DOI: 10.1080/25740881.2021.1959928 **HEC Category /Impact Factor:** x/2.7. ISSN 2574-089X 7. **Aman Qazi R**, Saleem Khan M, Siddiq M, Ullah R, Ali Shah L, Ali M. Synthesis and characterization of functionalized MWCNTs/PMMA composites: Device fabrication for RH sensing. Polymer-Plastics Technology and Materials. 2020 Sep 21;59(14):1608-20. https://doi.org/10.1080/25740881.2020.1759631, **HEC Category /Impact Factor:** x/2.7. ISSN 2574-089X https://link.springer.com/article/10.1007/s11270-023-06662-5 8. **Qazi RA**, Khan MS, Shah LA, Ullah R, Kausar A, Khattak R. Eco-friendly electronics, based on nanocomposites of biopolyester reinforced with carbon nanotubes: a review. Polymer-Plastics Technology and Materials. 2020 Jun 12;59(9):928-51. https://doi.org/10.1080/25740881.2020.1719137 , **HEC Category /Impact Factor:** x/2.7. ISSN 2574-089X 9. Ullah N, Qazi RA, Ullah S, Khan S. APPLICATION AND IMPORTANCE OF SCANNING AND TRANSMISSION ELECTRON MICROSCOPES IN SCIENCE AND

	TECHNOLOGY. Contributions. Section of Natural, Mathematical & Biotechnical Sciences. 2021 Jan 1. 10. Saba M, Khitab F, Jamila N, Khan N, Amin F, Bibi N, **Qazi RA**, Khan SN. Gold Nanoparticles from Chenopodium botrys and Chenopodium ambrosioides as Bioreductants: In Vitro Antioxidant, Antibacterial, and an Eco-friendly Catalytic Potential in Dyes Degradation. Arabian Journal for Science and Engineering. 2023 Nov 5:1-3. **HEC Category /Impact Factor:** w/2.9, ISSN: 2191-4281,2193-567X 11. Rahayu F, Mustafa I, Marjani, Rochman F, **Qazi RA**, Zeb K, Ullah N. Newly Isolated Ligninolytic Bacteria and Its Applications for Multiple Dye Degradation. Water, Air, & Soil Pollution. 2023 Jun;234(6):359, **HEC Category /Impact Factor:** w/2.9, **ISSN** 1573-2932 12. Khattak R, Begum B, **Qazi RA**, Gul H, Khan MS, Khan S, Bibi N, Han C, Rahman NU. Green Synthesis of Silver Oxide Microparticles Using Green Tea Leaves Extract for an Efficient Removal of Malachite Green from Water: Synergistic Effect of Persulfate. Catalysts. 2023 Feb;13 (2):227. **HEC Category /Impact Factor:** w/3.9, **ISSN: 2073-4344** 13. Gul S, Kanwal M, **Qazi RA**, Gul H, Khattak R, Khan MS, Khitab F, Krauklis AE. Efficient removal of methyl red dye by using bark of hopbush. Water. 2022 Sep 11;14(18):2831. **HEC Category /Impact Factor:** w/3.4, **ISSN: 2073-4441** 14. Begum B, Ijaz S, Khattak R, **Qazi RA**, Khan MS, Mahmoud KH. Preparation and Characterization of a Novel Activated Carbon@ Polyindole Composite for the Effective Removal of Ionic Dye from Water. Polymers. 2021 Dec 21;14(1):3. **https://doi.org/10.3390/polym14010003** ISSN: 2073-4360, HEC Category /Impact Factor: w/5 15. Khattak R, Khan MS, Summer S, Ullah R, Afridi H, Rehman Z, Masood S, Noreen H, **Qazi RA**, Begum B. Kinetics of the oxidation of iodide by dicyanobis (phenanthroline) iron (III) in a binary solvent system. International Journal of Chemical Kinetics. 2021 Feb;53(2):230-41. **https://doi.org/10.1002/kin.21436** HEC Category /Impact Factor: Y/***1.5, Online ISSN:1097-4601*** 16. **RA Qazi**, Nargis Aman, Hajera Gul, Bushra Begum, Nargis

	Jamila, Naheed Bibi, Nabi Ullah, Chapter 6, Nanobiotechnology; Application- & Commercialization-CRCPress/Noval polymer based composit materials using biogenic nanoparticles. CRC press taylor & francis group, Accepted 17. Naheed Bibi, Ayesha, Bushra Begum, Nargis Jamila, **RA Qazi**, Nargis Aman, Chapter 2, Nanobiotechnology; Application- & Commercialization-CRCPress/Mechanistic insights of natural plants and microbial extracts synthesis of metal nanoparticles and nanocomposites, CRC press taylor & francis group, Accepted