

Curriculum Vitae

DR. NAILA ZUBAIR Assistant Professor (TTS) Department of Chemistry Women University Mardan, KPK, Pakistan Email: nailazubair@wumardan.edu.pk	
PhD Chemistry (2020)	Nanoscience & Nanotechnology /Tribology Research Laboratory National Centre of Excellence of Excellence in Physical Chemistry, University of Peshawar
Teaching Experience	Assistant Professor/ HOD, Department of Chemistry, Women University Mardan 1 Year & 3 months (12 th April, 2023 till date) Lecturer/HOD, Department of Chemistry, Women University Mardan 4 Years & 2 months (29 January, 2019 — 11 th April. 2023)
Professional Trainings/ Administrative Experience	<ul style="list-style-type: none">● Head of the Chemistry Department● Fulfilment of the University's responsibilities concerning students in respect of admissions, instruction, progress and examination.● Started M.Phil Program in Chemistry, Session Fall-2023● Five Days Training Capacity Building Program for Emerging Women Leaders 17th to 22nd Nov, 2022 Organized by National Academy of Higher Education (NAHE), HEC Islamabad.● Established Chemistry Lab because of the dire need to fulfill the practical and research work requirements of students● Member academic council, WUM● Convener/Member of the Board of Studies Meeting of the Department of Chemistry● Designed and approved courses for Associate Degree, BS, M.Phil & Ph.D Programs in Chemistry● Member Higher Education Department Curriculum and Syllabi Review Committee for BS Chemistry (HED Chemistry CSRC).● Member Relevance Assessment Committee (RAC) of the Department of Chemistry● Member of the Board of Studies Meeting of the Department of Physics● Member of the Technical and Financial Committee for the Procurement of Chemicals and Equipment for Chemistry Lab at WUM.● Member of Book Purchase Committee, WUM● Member of Annual Report Committee of WUM● Member QEC 11 Standards of Institutional Performance Evaluation Team, WUM● Member of Research Ethics Committee● Member of the inspection committee for affiliated Colleges of WUM● Workload and timetable management● Assessment Team member, QEC, WUM● Convener, Alumnae Committee WUM● Convener, HOD office and Staffroom Committee● Program Team member, QEC, WUM● Assessment Team Member● Member of Health Society, WUM● Member of the Scholarship committee of the Department● Member Canteen Committee, WUM● Member of the Chemical Society of Pakistan

Honors & Awards	<ul style="list-style-type: none"> • Certificate of Appreciation for Remarkable Efforts in the Department of Chemistry, Women University Mardan, 6th March, 2024 • HEC Approved PhD Supervisor, 2023 • Certificate for Five Days Training Capacity Building Program for Emerging Women Leaders 17th to 22nd Nov, 2022 Organized by National Academy of Higher Education (NAHE), HEC Islamabad. • Merit Scholarship during PhD (18.09.2014 to 17.09.2018) awarded by National Centre of Excellence, University of Peshawar • Merit Scholarship during M.Phil (01.01.2012 to 31.12.2013) awarded by National Centre of Excellence, University of Peshawar • Best Poster Presentation award by President of the Chemical Society of Pakistan, 13th International and 25th National Chemistry Conference in University of the Punjab, Lahore (20–22 October, 2014) • Best Poster Presentation award by President of the Chemical Society of Pakistan, 12th International and 24th National Chemistry Conference in BZU, Multan (28–30 October, 2013) • Award of Fellowship under International Research Support Initiative Program (IRSIP) by Higher Education Commission of Pakistan • Reviewer of Journal of Molecular Structure • Reviewer of Iranian Journal of Chemistry and Chemical Engineering
Research Interests	<ul style="list-style-type: none"> • Fabrication of Functional Nanomaterials with Controlled Morphological Features • Characterization of Synthesized nanomaterials using advanced characterization techniques (FT-IR, XRD, XPS, BET/BJH, SEM, TEM, UV-Visible spectrophotometer.) • Fabrication of nanomaterials based Gas Sensors of industrial importance • Evaluation of antimicrobial properties of nanomaterials • Synthesis of nanomaterials for biomedical applications (Dental cement, antibacterial ointment, coating of medical implants) • Photo-catalysis
Research Publications/ Books/ Chapters	<ul style="list-style-type: none"> • Tribological Properties of Electrodeposited Ni-Co₃O₄ Nanocomposite Coating on Steel substrate, Journal of Tribology, 139(6): 061302, 2017, W-Category (IF: 1.787) Co-author • Synthesis and characterization of ZnO nanostructures with varying morphology, Bulletin of Material Science, 40, 459–466, 2017, W-Category (IF: 1.392) Co-author • Synthesis and Characterization of uniform Fine particles of Manganese Oxide and its Morphological Stability towards Calcination Rates, Journal of the Chemical Society of Pakistan, 40, 101-110, 2018, W-Category (IF:0.3) Co-author • Electrodeposition and Characterization of Ni-Al₂O₃ Nanocomposite Coatings on Steel, Journal of Materials Engineering and Performance, 27, 2827–2837, 2018, W-Category (IF:1.652), Co-author • Uniform fine particles of ZrO₂ as reinforcement filler in the electrodeposited Cu-ZrO₂ nanocomposite coating on steel substrate, Journal of Alloys and Compounds, 772, 15-24, 2019, W-Category (IF: 4.65) Co-author • High Performance Room Temperature Gas Sensor Based on Novel Morphology of Zinc Oxide Nanostructures, Transaction of Nonferrous Metals, Society of China, 29, 143-156, 2019, W-Category (IF: 2.615) Principal-author • Morphology controlled synthesis of ZnO nanoparticles for in-vitro evaluation of antibacterial activity, Transaction of Nonferrous Metals, Society of China, 30, 1605-1614, 2020, W-Category (IF: 2.615) Principal-author • Chemical Dynamics of Monodispersed Iron Oxide Nanoparticles, Iranian Journal of Chemistry and Chemical Engineering, 38, 21-30, 2020, W-Category (IF: 0.628) Co-author • Calcium Hydroxyapatite Nanoparticles as Reinforcement Filler in Dental Resin Nanocomposite Journal of Materials Science: Materials in Medicine, 32,129 (1-17), 2021, W-Category (IF: 3.896) Co-author • Genetic Diversity Associated with Agronomic Traits Using Microsatellite Markers in

	<p>Pakistan Wheat Varieties, Bioscience Research, 3, 2243-2249, 2021, Y-Category, Co-author</p> <ul style="list-style-type: none"> ● Monodispersed Fine Particles of Calcium Oxalate: Morphological Dynamics with Tuning of the Experimental Parameters, Journal of Dispersion Science and Technology, 44, 2, 2023 W-Category (IF: 2.262) Co-author ● Heavy Metal Accumulation Potential of Aquatic Fungi, Elsevier Inc. USA, 2022, Book Chapter, Co-author ● Monodispersed Calcium Oxalate as highly effective support filler in PMMA-based nanocomposite, Journal of Dispersion Science and Technology, 4, 7, 2023 W-Category (IF: 2.262) Co-author ● Morphological Effects on In-Vitro Evaluation of Antibacterial Activity of Monodispersed Fine Particles of Cobalt Oxide Against Various Bacterial Strains, Journal of Population Therapeutics & Clinical Pharmacology, Vol.31 No.3 (2024): JPTCP (1058-1070) DOI: 10.53555/jptcp.v31i3.5079. ● Qualitative and Quantitative Techniques of Phytochemicals Isolation and Detection, Biomedical Journal of Scientific and Technical Research, 2024 47299-47305, DOI:10.26717/BJSTR.2024.55.008744, Co-author ● Semiconducting and gas sensing performance of Magnetite nanoparticle systems of different morphologies Journal of Dispersion Science and Technology, doi.org/10.1080/01932691.2023.2295020, Co-author ● Morphological Influence on Zinc Oxide Nanoparticles: In-Vitro Assessment of Antibacterial Activity against Bacterial strains of Clinical Importance, Journal of Molecular Structure, Under Review, W-Category (IF: 4) Principal-author ● Abstract Book (ISBN: 978-969-23721-14), 6th International Conference “Scientific Outlook of Sustainable Development Goals-2024
Research Supervision	<p>M.Phil under Supervision: 10 BS Supervised: 12 BS Co-supervised:5</p>
Conferences Attended As Presenter	<ul style="list-style-type: none"> ● 6th International Conference “Scientific Outlook of Sustainable Development Goals-2024” 15-16 January, 2024 Organized by Women University Mardan in Collaboration with OIC, COMSTECH, PSF and PASTIC. ● Resource Person; Hands on Training Workshop on Basic Lab Skills, held on 4-8 December, 2023 at Women University Mardan ● International Conference on Food and Applied Sciences (ICFAS-2023), 3-5 August, 2023, Organized by Evolution (Pakistan) and Shaheed Benazir Bhutto University Sheringal (Dir) KPK, Pakistan ● International Chemistry Conference on Recent Trends and Renewable Energy Technology 2023 organized by Department of Chemistry, University of Swat, Pakistan (08–09 June, 2023) ● International Conference on Research Advancements in Chemistry 2021 organized by Department of Chemistry, School of Natural Sciences, NUST, Islamabad, Pakistan (10–11 March, 2021) ● 3rd International Conference; Empowering Nation Through Sciences by Women University Mardan (24-25th April, 2019) ● 15th International and 27th National Chemistry Conference in University of Malakand (22–25 August, 2016) ● 13th International and 25th National Chemistry Conference by Chemical Society of Pakistan) in University of the Punjab, Lahore (20–22 October, 2014) ● 12th International and 24th National Chemistry Conference Chemical Society of Pakistan in BZU, Multan (28–30 October, 2013) ● International Conference on Physical and Environmental Chemistry (9–11, September

	2013)
Conferences/ Workshops/ Seminars Organized	<ul style="list-style-type: none"> • Principal Organizer, 6th International Conference “Scientific Outlook of Sustainable Development Goals-2024” 15-16 January, 2024 Organized by Women University Mardan in Collaboration with OIC, COMSTECH, PSF and PASTIC. • Organized Science Exhibition (Poster/Model/Short Video Competition and Invited Talk themed Global Environment in Today Modernized World; Preserving Our Planet for Future Generation on 1st March, 2024 at Women University Mardan. • Organized Training Workshop Themed Academic & Scientific Writing on 27th Feb, 2024 at Women University Mardan. • International Seminar on Innovative Strategies in the Development of High Energy Rechargeable Aqueous Batteries at Department of Chemistry, WUM on 29th Nov, 2023 • Seminars at Affiliated Colleges Regarding BS/ M. Phil Admissions in the Department of Chemistry, Women University Mardan. • One Day Workshop on Nanotechnology: Transforming Future through Tiny Innovations, at Department of Chemistry, WUM on 6th June, 2023 • One Day Training Workshop on Reference Management & Citation Tools, MENDELEY, at Department of Chemistry, WUM in collaboration with PASTIC sub Centre Peshawar on 25th January, 2022 • WUM GALA Festival at Women University Mardan (9th December, 2021) • Two-day Online Workshop on Fundamentals and Applications of NMR Spectroscopy at Department of Chemistry, Women University Mardan (26-27 October, 2021) • Health Camp on 10th March, 2020 organized in collaboration with Paragon Diagnostic and Research Laboratories at Women University Mardan • One Day Seminar on “Crime Versus Forensic Sciences: Prevention of Crimes Using Modern Tools of Forensic Science” at Department of Chemistry, WUM (21st February, 2020) • One Day Seminar on “Synthesis and Characterization of Linear Polymers and Polymer Brushes” Women University Mardan (28th October, 2019) • Member Organizing Committee in International Conference on Physical and Environmental Chemistry (9–11, September 2013) • Member Organizing Committee in 11th International and 23rd National Chemistry Conference (15–17 October, 2012)
Conferences/ Workshops Participated	<ul style="list-style-type: none"> • National Conference on Plant Sciences & Climate Change, 9-11 August, 2023 Organized by Shaheed Benazir Bhutto University Sheringal • Workshop on Optical Physics, 13th September, 2023 at Women University Mardan • Two Day Complementary Bio Risk Management Training, 22-23 May, 2023 by Association for Bio Risk Management in collaboration with Health security and Women University Mardan • One Day Seminar Institutional Performance Evaluation (IPE), organized by Quality Enhancement Cell, Women University Mardan. • International Chemistry Workshop for Young Scientists (ICWYS 2020) January 23-24, 2020 Jointly Organized by NCE in Physical Chemistry, ORIC-University of Peshawar and Pakistan Academy of Sciences. • One Day Interactive Workshop on self-Assessment Report Making, 29th January, 2020 organized by Quality Enhancement Cell, Women University Mardan. • Mardan Science Festival, 20th April, 2019 organized by District Government Mardan • National Workshop on Optics for Girls, April 12, 2019 Department of Physics, Women University Mardan. • Women Employability Summit 2019, 20th & 21st February, 2019, organized by ORIC,

Women University Mardan.

- **Employability Skills Workshop**, December, 2018, organized by ORIC, Women University Mardan.
- **Invention to Innovation Summit** (16–17 November, 2016) Organized by University of Engineering and Technology (UET), Peshawar.
- **Two Days Workshop on Entrepreneurship, Innovation and Commercialization** (26–27 July, 2016) Organized by NCEPC, University of Peshawar.
- **Two Days Workshop on Patent & Research Paper Writing** (30–31 May, 2016) Organized by NCEPC, University of Peshawar.
- **One Day Workshop on Research Tool & Techniques: Citation Management Using Mendeley** (14th December, 2015) jointly organized by NCEPC & PASTIC.
- **5th Invention to Innovation Summit** (3–4 November, 2015) Organized by University of Haripur.
- **Two Days Workshop on Recent Advances and New Horizons in Chemistry** (6–7 April, 2015) Organized by NCEPC, University of Peshawar.
- **One Day Workshop on the use of Digital Library** (11th February, 2015) Organized by NCEPC, University of Peshawar.
- **One Day Guiding Workshop and Panel Discussion on M. Phil/Ph.D Admission to Completion** (23rd April, 2014) Organized by NCEPC, University of Peshawar
- **5th Spring Research Poster Exhibition** Organized by Institute of Chemical Sciences (12th March, 2014), University of Peshawar.
- **One Day Workshop on Citation & Referencing Using Endnote** (16th February, 2012) Organized by NCEPC, University of Peshawar.