Curriculum Vitae

Name	**Dr. Shehna Farooq**
Personal	Designation: Assistant Professor Department of Chemistry, Women University Swabi Address: Department of Chemistry, Women University Swabi, Swabi. Contact # 03440828973 Email: *dr.shehna@wus.edu.pk*, *shehna.chem99@yahoo.com*
Experience	• 15 September 2014 to 08 June 2022, Lecturer, University of Wah • 22 June 2022 to till date, Assistant Professor, Women University Swabi
Honor and Awards	• Got merit scholarship in M. phil. during 2010-2012 from NATIONAL Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan. • Got University scholarship for Ph.D. during 2014-2020 from NATIONAL Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan. • HEC Approved PhD Supervisor, 2022 • EPSRC-GCRF Institutional Sponsorship Grant by University of Exeter, UK, (Four months) • IRSIP fellowship, University of Cincinnati, USA (Six months)
Memberships	Life Member of The Chemical Society of Pakistan
Graduate Students Undergraduate Students	MS: 01 Student (Degree Awarded) BS: 5 Students
Service Activity	• Head of Department, WUS • Focal Person QEC, WUS • Member of the Board of Studies • Head of Newsletter Committee, University of Wah • MS/PhD Admission Test Committee, University of Wah

Curriculum Vitae

Brief Statement of Research Interest	Conducting Polymers, composites, hybrids, Electrochemistry, Corrosion Study, Energy storage and Energy harvesting devices
Publications	1. S. Bilal, **S. Farooq,** A. A. Shah, R. Holze, Improved Solubility, Conductivity, Thermal Stability and Corrosion Protection Properties of Poly (o-toluidine) Synthesized via Chemical Polymerization, Syth. Met, 2014 **(IF: 4.00)** 2. **S. Farooq,** A.-u.-H.A. Shah, S. Bilal, Some insights into the structure and morphology of surfactant- doped poly(o-toluidine), Advances in Polymer Technology, 37 (2018) 3701- 3710 (**IF: 2.502)**. 3. **S. Farooq,** A.A. Tahir, U. Krewer, A.u.H.A. Shah, S. Bilal, Efficient photocatalysis through conductive polymer coated FTO counter electrode in platinum free dye sensitized solar cells, Electrochimica Acta, 320 (2019) 134544 **(IF: 7.336)** 4. Jean-MarieFontmorin, PanizIzadi, DaLi, Swee SuLim, **ShehnaFarooq**, SalmaBilal, ShaoanCheng, Eileen HaoYu, Gas Diffusion Electrodes Modified With Binary Doped Polyaniline For Enhanced CO2 Conversion During Microbial Electrosynthesis, Electrochimica Acta, 372 (2021) 137853 **(IF: 7.336)** 5. Sami Ur Rahman, Philipp Röse, Anwar ul Haq Ali Shah, Ulrike, Krewer, Salma Bilal, **Shehna Farooq**. Exploring the Functional Properties of Newly Synthesized Polyaniline Modified FTO Electrodes for High-Performance Supercapacitor Applications. Polymers 2021, 13, 14, 2329. (**I.F: 4.967)**. 6. **Shehna Farooq**, Salma Bilal, Asif Ali Tahir,Anwar ul Haq Ali Shah. Impact of dopant ratio on the energy harvesting activity of polyaniline modified counter electrodes for Pt-free dye-sensitized solar cells, Electrochemical Science Advances, doi.org/10.1002/elsa.202100155. 7. Shehna Farooq et al. possible mechanisms involved in neurological manifestation of COVID-19: A short review, Journal of Scienctific and Innovative Research, 10 (2021) 63-66. 8. Protonated Polyaniline and its derivatives as potential adsorbents for simultaneous reclamation of textile dyes and oil/water separation. Material Chemistry and Physics, 2022, vol. 293, 126913 **(I.F: 4.094)** 9. Shehna Farooq et al. Morphology Controlled Polyaniline Nanofibers via Rapid Polymerization for Enhanced Supercapacitor Performance. Nanoenergy Advances 2025, 5,11. 10. Shehna Farooq et al. Tailoring polyaniline with dual dopant engineering as a high efficiency cathode material for aqueous zinc ion batteries, Journal of Colloid and Interface Science 2025, 700, 138600. 11. Shehna Farooq et al. Interfacial binary doping strategy modulates ion transport and achieves high capacity and cyclic durability in

Curriculum Vitae

	polyaniline cathodes for aqueous zinc ion batteries, Journal of Colloid and Interface Science, under review. 12. Shehna Farooq et al. Electrochemical evaluation of doped polyaniline films: influence of ADS and pTSA dopants, Next Materials, under review.
Selected Professional Presentations	○ Contribution of NCE in Physical Chemistry in National Development (Jan 17, 2011) ○ National Symposium on Kinetics and Catalysis, organized by National Center of Excellence in Physical Chemistry University of Peshawar (27-30 Sep) ○ One day poster exhibition 2011, National Centre of Excellence in Physical Chemistry, University of Peshawar (Dec, 23, 2011) ○ 11th international and 23rd national chemistry conference, NCE in Physical Chemistry, University of Peshawar (2012) ○ One day workshop on "Citations and Referencing Using EndNote" (Feb 16, 2012) ○ Student Societies University of Peshawar (May 16, 2013) ○ Recent Advances and New Horizons in Chemistry (2014) ○ One day workshop on the use of Digital Library (Feb 11, 2015) ○ Continuous Professional Development workshop on In-Service Faculty Training on Thesis Writing and Paper Writing (December 15, 2015) ○ Workshop on the Use of Turnitin Software" (Jan 23, 2016) ○ International Conference on research advancement in Chemistry (March 10, 2021). ○ Online Teaching Level 1 (May 22, 2021). ○ "Century Model Simulations for Soil Carbon Sequestration under Changing Climate" (May 25, 2021). ○ International Workshop on Nanomaterials for Energy Conversion, Emerging Photovoltaic and ○ Optoelectronic Technologies (NEEPO-21) (Sep 21, 2021). ○ NFDP-2021 (Nov 15, 2021). ○ 2nd International Conference on Climate Change Impacts on Agriculture and Food Security (IC3AF-2025) ○ NAHE-2025