Dr. Sana Munir (PhD Chemistry)

Nationality: Pakistani **Date of birth:** 19/09/1996 **Gender:** Female

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WORK EXPERIENCE

Research Assistant (2022) **-** Nanoscience Laboratory, Pakistan

Visiting Lecturer (2018 - 2022) - IUB BWP, Pakistan

Institute of Chemistry (2018-2022): Electrochemistry + Laboratory

Institute of Biotechnology (2022): Chemistry Laboratory + Physical Chemistry Laboratory

Department of Botany (2019-2023): Physical Chemistry Course + Laboratory

Lab Engineer (2018) - IUB BWP, Pakistan

EDUCATION AND TRAINING

PhD (Physical Chemistry) (2023)- The Islamia University of Bahawalpur, (Pakistan)

Mphil (Chemistry) (2020) - The Islamia University of Bahawalpur, (Pakistan)

BS (Hons) Chemistry (2018) - The Islamia University of Bahawalpur, (Pakistan)

B .Ed (2019) - Allama Iqbal Open University

Pedagogical Training (2022) - The Islamia University of Bahawalpur, (Pakistan)

DIGITAL SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / data processing and analysis software: Origin (advanced) / Nanomaterial characterization (SEM, EDX, FTIR, XRD, BET, TGA, and UV-Vis DRS), mass spectroscopy.

PUBLICATIONS

Ihsan, A., S. T. Almutairi, H. M. Mahmoud, M. F. Warsi and S. Munir (2023). "A strategy to boost the electrochemical properties of Ag-Fe2O3 with intercalation of MXene hydrogel." Ceramics International.

Basha, B., A. Murtaza, S. I. Shamsah, M. S. Alqahtani, A. Manzoor, Z. Alrowaili, S. Munir, M. I. Din and M. Al-Buriahi (2023). "The Impact of Cu-doping on Ni0. 5-Co0. 5Fe2O4@ Graphitic Carbon Nitride for the Degradation of Organic Pollutants." FlatChem: 100546.

Munir, S., M. Shahid, M. M. Ibrahim, S. S. Al-Juaid and M. F. Warsi (2023). "Tailoring the electrochemical properties of Ag-vanadium pentoxide porous network integrated with graphitic carbon nitride." Synthetic Metals 296: 117358.

Ajmal, A., M. E. El Sayed, M. F. Warsi, M. N. Murshed, A. Samir, Z. M. El-Bahy and S. Munir (2023). "Synthesis, characterization and photocatalytic activity study of aluminium doped BiSbO4 microflakes." Ceramics International 49(7): 10976-10985.

Alfryyan, N., S. Munir, M. Latif, Z. Alrowaili, M. Al-Buriahi, A. Irshad and M. Suleman (2023). "Synthesis of CNT supported nickel and cobalt doped zinc ferrite for photodegradation of organic effluents by visible light irradiation." Optik 288: 171213.

Mohammed A. Alzahran, F., J. Arshad, M. Al-Buriahi, Z. Alrowaili and S. Munir (2023). "Synthesis of graphene-based Ag-doped CuFe2O4 composite for improved photocatalytic activity against industrial effluents." Journal of Taibah University for Science 17(1): 2209676.

Murtaza, A., B. Basha, M. F. Warsi, Z. Alrowaili, M. Al-Buriahi and S. Munir (2023). "Magnetically separable rGO based ternary composite for enhanced photocatalytic activity." Materials Science and Engineering: B 294: 116532.

Arshad, J., F. M. A. Alzahrani, S. Munir, U. Younis, M. Al-Buriahi, Z. Alrowaili and M. F. Warsi (2023). "Integration of 2D graphene oxide sheets with MgFe2O4/ZnO heterojunction for improved photocatalytic degradation of organic dyes and benzoic acid." Ceramics International 49(11): 18988-19002.

Bashir, N., S. Zulfiqar, S. Munir, M. M. Ibrahim, M. F. Abou Taleb, S. M. El-Bahy, M. Suleman and M. Shahid (2022). "Sodium doped-V2O5 nanorods for visible light irradiated photocatalytic performance for the degradation of Rh-dye." Ceramics International 48(8): 10932-10940.

El-Bahy, S. M., J. Arshad, S. Munir, K. Chaudhary, D. Alhashmialameer, D. R. Eddy, M. F. Warsi and M. Shahid (2022). "Improved photocatalytic performance of a new silver doped BiSbO4 photocatalyst." Ceramics International 48(16): 23914-23920.

Warsi, A.-Z., T. Ahmad, F. Aziz, M. F. Warsi, S. Munir, P. O. Agboola and I. Shakir (2022). "Synthesis and characterisation of WO3 and Ag2O nanoparticles and their nanocomposite for photocatalytic degradation of dyes." International Journal of Environmental Analytical Chemistry: 1-21.

Munir, S., M. Aadil, M. F. Warsi, H. Somaily, N. Ul Ain and M. Shahid (2022). "Synergistic effect of noble metal doping and composite formation to boost the electrochemical properties of vanadium pentoxide." Ceramics International 48(22): 33306-33314.

Munir, S., M. M. Baig, S. Zulfiqar, M. S. Saif, P. O. Agboola, M. F. Warsi and I. Shakir (2022). "Synthesis of 2D material based Bi2O3/MXene nanohybrids and their applications for the removal of industrial effluents." Ceramics International 48(15): 21717-21730.

Mahmood, M., A. Rasheed, I. Ayman, T. Rasheed, S. Munir, S. Ajmal, P. O. Agboola, M. F. Warsi and M. Shahid (2021). "Synthesis of Ultrathin MnO2 Nanowire-Intercalated 2D-MXenes for High-Performance Hybrid Supercapacitors." Energy & Fuels 35(4): 3469-3478.

Munir, S., M. F. Warsi, S. Zulfiqar, I. Ayman, S. Haider, I. A. Alsafari, P. O. Agboola and I. Shakir (2021). "Nickel ferrite/zinc oxide nanocomposite: Investigating the photocatalytic and antibacterial properties." Journal of Saudi Chemical Society 25(12): 101388.

Alsafari, I. A., S. Munir, S. Zulfiqar, M. S. Saif, M. F. Warsi and M. Shahid (2021). "Synthesis, characterization, photocatalytic and antibacterial properties of copper Ferrite/MXene (CuFe2O4/Ti3C2) nanohybrids." Ceramics International 47(20): 28874-28883.

Rasheed, T., A. Rasheed, S. Munir, S. Ajmal, Z. M. Shahzad, I. A. Alsafari, S. A. Ragab, P. O. Agboola and I. Shakir (2021). "A cost-effective approach to synthesize NiFe2O4/MXene heterostructures for enhanced photodegradation performance and anti-bacterial activity." Advanced Powder Technology.

Munir, S., A. Rasheed, T. Rasheed, I. Ayman, S. Ajmal, A. Rehman, I. Shakir, P. O. Agboola and M. F. Warsi (2020). "Exploring the Influence of Critical Parameters for the Effective Synthesis of High-Quality 2D MXene." ACS omega 5(41): 26845-26854.

Munir, S., A. Rasheed, S. Zulfiqar, M. Aadil, P. O. Agboola, I. Shakir and M. F. Warsi (2020). "Synthesis, characterization and photocatalytic parameters investigation of a new CuFe2O4/Bi2O3 nanocomposite." Ceramics International.

CONFERENCES AND SEMINARS

2nd International STEMS Conference: Synthesis of 2D Material Based Bi2O3/MXene Nanohybrids and Their Applications for the Removal of Industrial Effluents [2022] - Oral Talk

80 th International Conference (ICSMAND): Semiconductor Materials and Nanodevices: New Trends - [2020] - Poster Presentation

International STEMS Conference: Exploring the Influence of Critical Parameters for the Effective Synthesis of High-Quality 2D-MXene [2020] - Poster Presentation