



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-Buriah (2023). "The Impact of Cu-doping on Ni_{0.5}Co_{0.5}Fe₂O₄@ 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. Alzahrani, 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. Somoily, 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