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ACADEMIC QUALIFICATION

2012-2018 **Ph.D.** - Chemistry Government College Lahore University Pakistan

2009-2011 **MS-** Pharmaceutical Chemistry, Government College University, Lahore, Pakistan

2006-2008 **MSc-** Industrial Chemistry, Government College University, Lahore, Pakistan

2004-2006 **BSc-**Chemistry, Government College University, Lahore, Pakistan

WORK EXPERIENCE

❖ University of Education, Lahore Pakistan

2021-12-6 to present | Assistant Professor (Division of Science and Technology)

GRANTS

2012-2016

- Indigenous 5000 PhD fellowship program by Higher Education Commission Pakistan 2016
- International Research Support Initiative Program (IRSIP), Higher Education Commission of Pakistan with Australian National University (ANU) collaboration. Visiting research scholar at the *Australian National University* | ANU, Research School of Engineering Canberra.

THESIS SUPERVISED

- Synthesis and Characterization of Chitosan doped Stannous Selenide as catalyst for dye degradation (MSF 2024)
- Investigation Of Lead And Other Metal Contaminants In Dietary Nutraceuticals And Their Impact On Human Health; A Risk Evaluation (MSF 2024)
- Synthesis, characterization, and biological screening of divalent metal complexes derived from No. donor Schiff base ligands (MSF2023)
- Synthesis of inner and outer Transition Metall porphyrin complexes for catalytic applications (MSF 2023)
- Synthesis and characterization of carbon sphere doped on cadmium sulphide for treatment of industrial wastewater (MSF 2023)

- Synthesis, characterization, and Biological Applications of Azomethine linkage based Ligands and their Divalent metal complexes (MSF 2023)
- Green synthesis of Mn/ZnS and Mn/ZnO nanoparticles and their application in fingerprinting (MSCF 2022)
- Synthesis of Fe-doped ZnO nanoparticles for anti-cancer treatment (MPhil 2022)
- NiS, CuS doped CuO. NiO and its applications in photocatalysis (MPhil 2022)

PUBLICATIONS

Year 2025

1. Fatima, Areej, **Misbah Naz**, Ali Haider, Iram Shahzadi, Anwar Ul-Hamid, Hameed Ullah, Ghafar Ali, Sawaira Moeen, Salah M. El-Bahy, and Muhammad Ikram. "DFT, molecular docking, antimicrobial activity, dye degradation, and oxygen evolution reaction of functionalized chitosan integrated eudragit-stannous selenide nanostructures." *Surfaces and Interfaces* 58 (2025): 105907. <https://doi.org/10.1016/j.surfin.2025.105907>
2. Ditta, Sarwar Allah, Syed Zain Zaffar Bukhari, Muhammad Jamil Yousaf, Zainab Hassan, Muhammad Nasir, Muhammad Rashid, Fouzia Tanvir, **Misbah Naz**, Hassaan Haider, and Atif Yaqub. "Nanogels-empowered amino acid-capped silver nanoparticles for enhanced skin tissue regeneration." *Journal of Drug Delivery Science and Technology* 107 (2025): 106751. <https://doi.org/10.1016/j.jddst.2025.106751>

Year 2024

3. **Misbah Naz**, Mahmood Ahmed, Fatima Aftab, Maryam Ahmad Ali, Mudassar Sanaullah, Waqar Ahmad, Atekah Hazzaa Alshammari, Khuram Khalid, Tanveer A. Wani, Seema Zargar. Contamination of trace, non-essential/heavy metals in nutraceuticals/dietary supplements: A chemometric modelling approach and evaluation of human health risk upon dietary exposure *Food and Chemical Toxicology* <https://doi.org/10.1016/j.fct.2024.114806>
4. Hanif, Irum, **Misbah Naz**, Affifa Tajammal, Tauqeer Ahmad, Shabbir Hussain, Zeeshan Mustafa, Gull Yasmeen et al. "Coriandrum sativum Mediated Synthesis of Mn₃O₄ Nanoparticles: Structural and Antibacterial Studies." *Polish Journal of Environmental Studies*.
5. Asma Rafiq, **Misbah Naz**, Shehnila Altaf, Saira Riaz, 2D Metals as Photocatalysts. *2D Metals*, 2024, p. 156-172. CRC Pres

Year 2023

6. Muhammad Ikrama*, **Misbah Naz**, Ali Haiderc*, Iram Shahzadid, Hafiz Umar Mehboobb, Muhammad Ahsaan Baria, Anwar Ul-Hamide, Mohammed M Algaradahf, Murefah mana AlAnazy. Carbon sphere doped CdS quantum dots served as a dye degrader and their bactericidal behavior analysed with in silico molecular docking analysis *Nanoscale Adv.*, 2024, 6, 233-246. DOI: [10.1039/D3NA00579H](https://doi.org/10.1039/D3NA00579H)
7. Rafiq, Asma, **Misbah Naz**, Shehnila Altaf, Saira Riaz, and Shahzad Naseem. "Multifunctional Materials for the Sensing of Gases." In *Innovative Multifunctional Nanomaterial for Photocatalysis, Sensing, and Imaging*, pp. 128-158. IGI Global, 2023. DOI: [10.4018/978-1-6684-8743-3.ch006](https://doi.org/10.4018/978-1-6684-8743-3.ch006)

Year 2022

- 8 Muhammad Ikram, Ayesha Khalid , Anum Shahzadi, Ali Haider, Sadia Naz, **Misbah Naz**, Iram Shahzadi, Anwar Ul-Hamid, Junaid Haider, Walid Nabgan, Alvina Rafiq Butt. Enhanced Photocatalytic Degradation with Sustainable CaO Nanorods Doped with Ce and Cellulose Nanocrystals: In Silico Molecular Docking Studies. ACS Omega 2022, 7, 31, 27503–27515. <https://doi.org/10.1021/acsomega.2c02732>
- 9 Ikram, Muhammad, Huma Shahid, Junaid Haider, Ali Haider, Sadia Naz, Anwar Ul-Hamid, Iram Shahzadi, **Misbah Naz**, Walid Nabgan, and Salamat Ali. "Nb/Starch-Doped ZnO Nanostructures for Polluted Water Treatment and Antimicrobial Applications: Molecular Docking Analysis." ACS Omega (2022). <https://doi.org/10.1021/acsomega.2c05569>
- 10 Moeen, Sawaira, Muhammad Ikram, Ali Haider, Junaid Haider, Anwar Ul-Hamid, Walid Nabgan, Tahira Shujah, **Misbah Naz**, and Iram Shahzadi. "Comparative study of sonophotocatalytic, photocatalytic, and catalytic activities of magnesium and chitosan-doped tin oxide quantum dots." ACS omega 7, no. 50 (2022): 46428-46439. <https://doi.org/10.1021/acsomega.2c05133>
- 11 Ur Rehman, Ata, Muhammad Ikram, Ali Haider, Muhammad Asif Raza, Tahira Shujah, **Misbah Naz**, Anwar Ul-Hamid et al. "Facile Synthesis of Barium-Doped Cadmium Sulfide Quantum Dots for the Treatment of Polluted Water: Experimental and Computational Investigations." ACS omega 7, no. 50 (2022): 46325-46336. <https://doi.org/10.1021/acsomega.2c04862>

Year 2021

- 12 Perveen R, Shujat S, **Naz M**, Qureshi Z, Nawaz S, Shahzad K, Ikram M. Green synthesis of antimicrobial silver nanoparticles with Brassicaceae seeds. Mater.Res.Express 8 (2021) 055007 IF: 1.929 [10.1088/2053-1591/ac006b](https://doi.org/10.1088/2053-1591/ac006b)
- 13 Muhammad Ikram, Ali Raza, Shahnaila Altaf, **Misbah Naz**, Sarfraz Ali, Ossama Syed, Junaid Haider, "High Temperature Superconductors", IntechOpen, Book Title: Transition Metals. ISBN: 978-1-839680496, Feb. 10 th 2021. IF: 0.01 [10.5772/intechopen.96419](https://doi.org/10.5772/intechopen.96419)
- 14 **Misbah Naz**, Asma Rafiq, Muhammad Ikram, Ali Haider, Syed Ossama Ali Ahmad, Junaid Haider. Elimination of Dyes by Catalytic Reduction in the absence of light: A Review. Journal of Materials Science. <https://doi.org/10.1007/s10853-021-06279-1>

Year 2020

- 15 M. Aqeel, M. Ikram, A. Asghar, A. Haider, A. Ul-Hamid, **M. Naz**, M. Imran, S. Ali. Synthesis of capped Cr-doped ZnS nanoparticles with improved bactericidal and catalytic properties to treat polluted water, Applied Nanoscience 10, 2045–2055 (2020). IF: 2.88 [10.1007/s13204-020-01268-3](https://doi.org/10.1007/s13204-020-01268-3)
- 16 S. Altaf, H. Ajaz, M. Imran, A. Ul-Hamid, **M. Naz**, M. Aqeel, A. Shahzadi, A. Shahbaz, M. Ikram. Synthesis and characterization of binary selenides of transition metals to investigate its photocatalytic, antimicrobial and anticancer efficacy. 10, 2113–2127 Applied Nanoscience (2020). IF: 2.88 [10.1007/s13204-020-01350-w](https://doi.org/10.1007/s13204-020-01350-w)
- 17 S. Altaf, A. Haider, S. Naz, A. Ul-Hamid, J. Haider, M. Imran, A. Shahzadi, **M. Naz**, H. Ajaz and M. Ikram, Comparative Study of Selenides and Tellurides of Transition Metals (Nb and Ta) with Respect to its Catalytic, Antimicrobial, and Molecular Docking Performance, Nanoscale Research Letters (2020) 15:144 IF:3.581

- 18 Yaqub, Atif, Naila Malkani, Arifa Shabbir, Sarwar Allah Ditta, Fouzia Tanvir, Shaista Ali, **Misbah Naz**, Syed Akif Raza Kazmi, and Rehan Ullah. "Novel Biosynthesis of Copper Nanoparticles Using Zingiber and Allium sp. with Synergic Effect of Doxycycline for Anticancer and Bactericidal Activity." *Current Microbiology* 77, 2287–2299 (2020):1-13. IF:1.610 [10.1007/s00284-020-02058-4](https://doi.org/10.1007/s00284-020-02058-4)
- 19 Yaqub, Atif, Sharafat Ali, Sarwar Allah Ditta, Fouzia Tanvir, Shaista Ali, and **Misbah Naz**. "Enhanced bactericidal activity of Azithromycin-coated silver nanoprisms in comparison to their spherical-shaped counterparts." *Micro & Nano Letters* 15, 834-839 (2020). IF: 0.975. <https://doi.org/10.1049/mnl.2019.0704>
- 20 Altaf, S., H. Ijaz, J. Haider, **M. Naz**, M. Aqeel, A. Ul-Hamid, M. Ikram, S. Zulfiqar, S. A. Ditta, and A. Shahbaz. "Influence of various transition metals incorporated into tellurium used as antimicrobial agent and textile dye degrader." *Applied Nanoscience* 10, 4241–4254 (2020): 1-14. [10.1007/s13204-020-01547-z](https://doi.org/10.1007/s13204-020-01547-z)
- 21 M. Ali, S. Sharif, S. Anjum, M. Imran, M. Ikram, **M. Naz** and S. Ali. Preparation of Co and Ni doped ZnO nanoparticles served as encouraging nano-catalytic application Mater. Res. Express 6 (2020) 1250d5 [10.1088/2053-1591/ab6383](https://doi.org/10.1088/2053-1591/ab6383)
- 22 A. Haider, M. Ijaz, M. Imran, **M. Naz**, H. Majeed, J. A. Khan, M. M. Ali, M. Ikram Enhanced bactericidal action and dye degradation of spicy roots' extract-incorporated fine-tuned metal oxide nanoparticles Applied Nanoscience , 10, 1095–1104 (2020). IF: 3.198 DOI: [10.1007/s13204-019-01188-x](https://doi.org/10.1007/s13204-019-01188-x)

Year 2019

- 23 M. Junaid · M. Imran · M. Ikram · **M. Naz** · M. Aqeel · H. Afzal · H. Majeed · S. Ali, The study of Fe-doped CdS nanoparticle-assisted photocatalytic degradation of organic dye in wastewater Applied Nanoscience, 9, 1593–1602 (2019). IF: 3.198 DOI: [10.1007/s13204-018-0933-3](https://doi.org/10.1007/s13204-018-0933-3)
- 24 A. Wahab, M. Imran, M. Ikram, **M. Naz**, M. Aqeel, A. Rafiq, H. Majeed, S. Ali, Dye degradation property of cobalt and manganese doped iron oxide nanoparticles Applied Nanoscience 9, 1823–1832 (2019). IF: 3.198 DOI: [10.1007/s13204-019-00970-1](https://doi.org/10.1007/s13204-019-00970-1)
- 25 A Rafiq, M Imran, M Ikram, **M Naz**, M Aqeel, H Majeed, S G Hussain and S Ali, Photocatalytic and catalytic degradation of organic dye by uncapped and capped ZnS quantum dots Mater. Res. Express 6 055801 (2019). IF: 1.449 DOI: [10.1088/2053-1591/aaff8e](https://doi.org/10.1088/2053-1591/aaff8e)
- 26 Fouzia Tanvir, Atif Yaqub, Sarwar Allah Ditta, **Misbah Naz**, Khalid Mahmood Anjum, and Muhammad Zubair Yousaf Mosquito Larvicidal and Catalytic Activity of Spherical-Shaped Silver Nanoparticles as Nano-Catalysts Nanosci. Nanotechnol. Lett. 11(6) (2019) 827-833(7). IF: 2.917 DOI: [10.1166/nml.2019.2951](https://doi.org/10.1166/nml.2019.2951)
- 27 M Aqeel, S Anjum, M Imran, M Ikram, H Majeed, **M Naz**, S Ali and M A Ahmad TiO₂ @ RGO (reduced graphene oxide) doped nanoparticles demonstrated improved photocatalytic activity Mater. Res. Express 6 086215 (2019). IF: 1.449 DOI: [10.1088/2053-1591/ab244a](https://doi.org/10.1088/2053-1591/ab244a)
- 28 Rafiq, M. Imran, M. Aqeel, **M. Naz**, M. Ikram, S. Ali Study of Transition Metal Ion Doped CdS Nanoparticles for Removal of Dye from Textile Wastewater J INORG ORGANOMET P., 30, 1915–1923, 2019. IF: 1.637 ISSN: 1574-1443 DOI:[10.1007/s10904-019-01343-5](https://doi.org/10.1007/s10904-019-01343-5)

Year 2018

- 29 A Saleem, M Imran, A Shahzadi, M Junaid, H Majeed, A Rafiq, I Shahzadi, M Ikram, **M Naz** and S Ali¹. Drastic improvement in catalytic, optical and visible-Light photocatalytic behavior of cobalt and nickel doped TiO₂ nanopowder. Materials Research Express (2018) 6. IF: 1.499 DOI: [10.1088/2053-1591/aae28e](https://doi.org/10.1088/2053-1591/aae28e)
- 30 W. T. Salam, M. Ikram, I. Shahzadi, M. Imran, M. Junaid, M. Aqeel, S. Anjum, A. Shahzadi, H. Afzal, U. Sattar, Asghar, A. Wahab, **M. Naz**, M. Nafees, and S. Ali. Doping Dependent Structural, Optical, Thermal and Catalysis Properties of Synthesized Cadmium Sulfide Nanoparticles. Nanosci. Nanotechnol. Lett. (2018) 10, 1662-1670. IF: 2.917 DOI: [10.1166/nnl.2018.2839](https://doi.org/10.1166/nnl.2018.2839)
- 31 **Misbah Naz**; Muhammad Zahid Qureshi; Ali Haider; Muhammad Ikram; Muhammad Nafees, PhD; Salamat Ali; Antonio Tricoli. Bio-inspired synthesis of nanoparticles (*Cenchrus ciliaris*): anticancer drug carrier, catalytic and antibacterial potential. Nanosci. Nanotechnol. Lett. 10, 889-899 (2018). IF: 2.917 DOI: [10.1166/nnl.2018.2711](https://doi.org/10.1166/nnl.2018.2711)

Year 2017

- 32 **M. Naz**, M. Z. Qureshi, N. Nasiri, M. Ikram, M. Nafees, S. Ali, A. Tricoli. Eco-friendly biosynthesis, anticancer drug loading and cytotoxic effect of capped Ag-nanoparticles against breast cancer. Appl Nanosci 7, 793–802 (2017). IF: 3.198 DOI: [10.1007/s13204-017-0615-6](https://doi.org/10.1007/s13204-017-0615-6)
- 33 **Misbah Naz**, Ali Haider, Muhammad Ikram, Muhammad Zahid Qureshi, Salamat Ali, Green synthesis (*A. indica* seed extract) of silver nanoparticles (Ag-NPs), Characterization, their catalytic & bactericidal action potential Nanosci. Nanotechnol. Lett. 9, 1649–1655 (2017). IF: 2.917 DOI: [10.1166/nnl.2017.2517](https://doi.org/10.1166/nnl.2017.2517)

Year 2012

- 34 D. Shahwar, **M. Naz**, M. A. Raza, G. Ara, A. Yasmeen, A. Saeed, S. Bokhari, M. Ajaib, N. Ahmad Acetylcholine Esterase Inhibitory Potential and Antioxidant Activity of two different plant species. Asian Journal Of Chemistry 24 (7) (2012), 3151-3154. IF: 0.27 DOI: [10.5897/JMPR11.1091](https://doi.org/10.5897/JMPR11.1091)
- 35 D. Shahwar, M. Tahir, **M. Kashif**, Crystal report of (5z)-5-(2-hydroxybenzylidene)-3-(4-methylphenyl)2sulfanylidene1,3-thiazolidin-4-one, ActaCryst. (2012). E68, 01818. DOI: [10.1107/S1600536812021630](https://doi.org/10.1107/S1600536812021630) IF: 0.27

Conferences Organized

- Organized 1st International Conference on Trends and Research in Chemistry TRIC-2022 at Department of Chemistry, Division of Science & Technology, University of Education on 18-19 January 2022.
- Organized 2nd International Conference on Trends and Research in Chemistry TRIC-2023 at Department of Chemistry, Division of Science & Technology, University of Education on 16-18 May 2023.

Oral Presentations

- 3. Bilsel International Truva Scientific Researches And Innovation Congress 25-26 May 2024
- 3. Bilsel International Ahlat Scientific Researches Congress 08-09 June, 2024
- Bilsel International Sumela Scientific Researches Congress" scheduled for 6-7 April 2024.
- 10th International "Başkent" Congress on Physical, Engineering, and Applied Sciences 28-30 October 2023
- 2nd International IZMIR Congress on Life, Engineering, and Applied Sciences 14-16 October 2023.
- 1st International Conference on Trends & Research in Chemistry (TRIC-2022) Department of Chemistry, Division of Science and Technology, University of Education, Lahore 18-19 Jan. 2022
- 9. International Istanbul Scientific Research Congress 14-15 May 2022
- 8th International Mardin Artuklu Scientific Researches Conference 4-6 June 2022
- 2. International Mediterranean Scientific Research And Innovation Congress 30-31 July 2022
- IV international Turkic world congress on Science and engineering 23-24 June 2022
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REFERENCE:

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