

Dr. Misbah Sultan

Associate Professor,

Center for Applied Chemistry,
School of Chemistry,
University of the Punjab,
Quaid-i-Azam Campus, Lahore.

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ORCID: <https://orcid.org/0000-0003-1178-6785>

SCIENTIFIC PUBLICATIONS

1. Tariq, Asma Rashid, **Misbah Sultan**, Tariq Mahmud, Ghayoor Abbas Chotana, Muhammad Rizwan Dilshad, Asim Laeeq Khan, Muhammad Imran, Saadia Rashid Tariq, and Prof Muller. (2023). Use of 1D [Pr (BTC)(H₂O)₆] MOF as a Filler for Fabrication of Matrimid® based MMMs. Journal of the Chemical Society of Pakistan 45, no. 3: 203-217. [doi.10.52568/001245/jcsp/45.03.2023](https://doi.org/10.52568/001245/jcsp/45.03.2023)
2. Nazir, Alina, Farhat Jubeen, **Misbah Sultan**, Abdul Ala Khurram, Asma Abdul Latif, Imran Altaf, Sobhy M. Ibrahim, Munawar Iqbal, and Arif Nazir. (2023). Environmental remediation and generation of green electricity using constructed wetlands coupled with microbial fuel cell model system. Arabian Journal of Chemistry 16, no. 8: 104941. <https://doi.org/10.1016/j.arabjc.2023.104941> 1878-5352 (IF=6.212)
3. Rimsha Arshad, Shazia Nouren, Jahanzaib Arshad, Maria Zaib, Ismat Bibi, Abida Kausar, **Misbah Sultan** and Indra Neel Pulidindi. (2023). Sensitive Determination of Mercuric Ions Using Fe-Ni Nanoparticles and N-doped Carbon Dot-Decorated Fe-Ni Nanocomposite: A Comparative Approach. Bioengineering 10, x. <https://doi.org/10.3390/xxxxx> (IF=5.046)
4. Ghafoor, Aamir, Ismat Bibi, Farzana Majid, Shagufta Kamal, Kashif Jilani, **Misbah Sultan**, Norah Alwadai, Adnan Ali, Abid Ali, Arif Nazir, Munawar Iqbal. (2023). Electrochemical, ferroelectric and dielectric properties of Gd, Fe and Mn doped nickel perovskite with robust photocatalytic activity under visible light. Materials Science in Semiconductor Processing 160: 107408. <https://doi.org/10.1016/j.mssp.2023.107408> (IF=4.644)
5. Farhat Jubeen, Ishrat Jabeen, Usman Aftab, Sadia Noor, Mah e Hareem, **Misbah Sultan**, Mohsin Kazi. (2023). Synthesis, Characterization, Theoretical and Experimental Anticancer Evaluation of Novel Cocrystals of 5-Fluorouracil and Schiff Bases against SW480 Colorectal

- Carcinoma. Pharmaceutics 15, 1929, 2-18. <https://doi.org/10.3390/pharmaceutics15071929> (IF=5.4)
6. Mustafa, Ghulam, Ismat Bibi, Farzana Majid, **Misbah Sultan**, Babar Taj, Zarish Nazeer, Hafiz Muhammad Umair, Zainab M. Elqahtani, Norah Alwadai, Muhammad I. Khan, Munawar Iqbal. (2023). Zn and Ni doping effect on barium hexaferrite ferroelectric, optical properties and photocatalytic activity under visible light irradiation. Physica B: Condensed Matter. 15, 663:415006. <https://doi.org/10.1016/j.physb.2023.415006> (IF=2.988)
 7. Faiqa Shaheen , Yusra Safa, **Misbah Sultan** , Ismat Bibi , Faisal Rehman, Sadia Ismail Shah. (2022). Synthesis, characterization and biological activity of azides and its derivatives. Desalination and Water treatment, 1-8. <http://doi: 10.5004/dwt.2022.2902> (IF=1.273)
 8. Maliha Uroos, Arshad Javaid, Amina Bashir, Javaria Tariq, Iqra Haider Khan, Sadia Naz, Sameeta Fatimaa and **Misbah Sultan**. (2022). Green synthesis of coumarin derivatives using Brønsted acidic pyridinium based ionic liquid [MBSPy][HSO₄] to control an opportunistic human and a devastating plant pathogenic fungus *Macrophomina phaseolina* RSC Advances, 37 23963-23972. (IF= 4.036)
 9. Shaista Parveen, **Misbah Sultan**, Muhammad Imran Sajid, Farhat Jubeen, Shagufta Parveen, Ismat Bibi, Yusra Safa. (2022). Synthesis and characterization of biodegradable and cytocompatible polyurethane-bovine-derived hydroxyapatite biomaterials. Polymer Bulletin. 79, 2487–2500. <https://doi.org/10.1007/s00289-021-03622-z>. (IF= 2.843)
 10. **Misbah Sultan**, Zunaira Jamal, Farhat Jubeen, Ariba Farooq, Ismat Bibi, Maliha Uroos, Hina Chaudhry, S.A. Alissa, Munawar Iqbal. (2021). Green synthesis of biodegradable polyurethane and castor oil-based composite for benign transformation of methylene blue. Arabian Journal of Chemistry,14 (12), 103417. <https://doi.org/10.1016/j.arabjc.2021.103417>. (IF= 6.212)
 11. Saba Urooge Khan, **Misbah Sultan**, Atif Islam, Aneela Sabir, Sadaf Hafeez, Ismat Bibi, Muhammad Naeem Ahmed, Shahzad Maqsood Khan, Rafi Ullah Khan, Munawar Iqbal. (2021). Sodium alginate blended membrane with polyurethane: Desalination performance and antimicrobial activity evaluation. International Journal of Biological Macromolecules, 182: 72-81. <https://doi.org/10.1016/j.ijbiomac.2021.03.188>. (IF= 8.025)
 12. Ismat Bibi, Maria Qayyum, Sadia Ata, Farzana Majid, Shagufta Kamal, Norah Alwadai, **Misbah Sultan**, Fariha Rehman, Shahid Iqbal, Munawar Iqbal. (2021). Effect of dopant on ferroelectric, dielectric and photocatalytic properties of chromium-doped cobalt perovskite prepared via micro-emulsion route. Results in Physics, 20, 103726. <https://doi.org/10.1016/j.rinp.2020.103726>. (IF= 4.565)
 13. Amna Murtaza, Maliha Uroos, **Misbah Sultan**, Rabia Muazzam and Sadia Naz. (2021). Enhancing catalytic potential of gold nanoparticles by linear and cross-linked polyurethane blending. RSC Advances, 11:26635. <https://doi.org/10.1039/D1RA04662D>. (IF= 4.036)

14. Muhammad Aamir, Ismat Bibi, Sadia Ata, Farzana Majid, Shagufta Kamal, Norah Alwadai, **Misbah Sultan**, Shahid Iqbal, Muhammad Aadil, Munawar Iqbal. (2021). Graphene oxide nanocomposite with Co and Fe doped LaCrO₃ perovskite active under solar light irradiation for the enhanced degradation of crystal violet dye. *Journal of Molecular Liquids* 322: 114895. <https://doi.org/10.1016/j.molliq.2020.114895>. (IF= 6.633)
15. Mehwish Tanveer, Ariba Farooq, Sadia Ata, Ismat Bibi, **Misbah Sultan**, Munawar Iqbal, Sehrish Jabeen, Nafisa Gull, Atif Islam, Rafi Ullah Khan, Samiah H. Al-Mijalli, (2021). Aluminum nanoparticles, chitosan, acrylic acid and vinyltrimethoxysilane based hybrid hydrogel as a remarkable water super-absorbent and antimicrobial activity. *Surfaces and Interfaces* 25: 101285. <https://doi.org/10.1016/j.surfin.2021.101285>. (IF= 6.137)
16. Sehrish Abbas, Ismat Bibi, Farzana Majid, Sadia Ata, Sobhy M. Ibrahim, Shagufta Kamal, **Misbah Sultan**, Kashif Jilani, Shahid Iqbal and Munawar Iqbal. (2020). Micro-emulsion synthesis of La₁ – xCr_xFeO₃ nanoparticles: effect of Cr doping on ferroelectric, dielectric and photocatalytic properties. *International Journal of Chemical Reactor Engineering* 18 (10–11): 20190201. <https://doi.org/10.1515/ijcre-2019-0201>. (IF= 1.636)
17. Nafisa Gull, Shahzad Maqsood Khan, Syed Khalid, Saba Zia, Atif Islam, Aneela Sabir, **Misbah Sultan**, Farieha Hussain, Rafi Ullah Khan, Muhammad Taqi Zahid Butt. (2020). Designing of biocompatible and biodegradable chitosan based crosslinked hydrogel for in vitro release of encapsulated povidone-iodine: A clinical translation. *International Journal of Biological Macromolecules* (164): 4370–4380. (IF= 8.025)
18. **Misbah Sultan**, Saba Urooge Khan, Farah Kanwal, Atif Islam, Khadija Rafiq, Sadaf Hafeez, Nafisa Gull, Muhammad Shafiq, Rafi Ullah Khan. (2020) Silica nanoparticle-doped polyurethane membranes for reverse osmosis applications. *Chemical Papers* 74: 2837–2848. <https://doi.org/10.1007/s11696-020-01124-2>. (IF= 2.146)
19. Saba Urooge Khan, Sadaf Hafeez, **Misbah Sultan**, Atif Islam, Sadia Sagar Iqbal, Rafi Ullah Khan and Shehzad Maqsood Khan. (2020) Impact of Soft Segment Size on Structural and Permeation Properties of Polyurethane Membranes. *Journal of Polymers and the Environment*, 28:1944–1953. <https://doi.org/10.1007/s10924-020-01745-4>. (IF= 4.705)
20. Asma Rashid Tariq, Saadia Rashid Tariq, Misbah Sultan, Tariq Mahmud, Ghayoor A. Chotana. (2020). Selective CO₂ Capture Through Microporous Tb(BTC)(H₂O).(DMF)1.1 MOF as an additive in Novel MMMs Fabricated from Matrimid® 5128. *Arabian Journal of Chemistry* 13/12: 8979-8994. (IF= 6.212)
21. Farhat Jubeen, Aisha Liaqat, Fiza Amjad, **Misbah Sultan**, Sania Zafar Iqbal, Imran Sajid, Muhammad Bilal Khan Niazi and Farooq Sher. (2020). Synthesis of 5-fluorouracil co-crystals with novel organic acid as coformers and its anticancer evaluation against HCT-116 colorectal cell lines. *Crystal Growth & Design*, 20, 2406–2414. [doi: 10.1021/acs.cgd.9b01570](https://doi.org/10.1021/acs.cgd.9b01570). (IF= 4.010)
22. Ismat Bibi, Nosheen Nazar, Sadia Ata, **Misbah Sultan**, Abid Ali, Ansar Abbas, Kashif Jilani Shagufta Kamal, Fazli Malik Sarim, M. Iftikhar Khan, Fatima Jalal, Munawar Iqbal. (2019) "Green synthesis of iron oxide nanoparticles using pomegranate seeds extract and photocatalytic activity evaluation for the degradation of textile dye". *Journal of Materials*

- Research and Technology. 8 (6): 6115-6124. <https://doi.org/10.1016/j.jmrt.2019.10.006>. (IF= 6.267)
23. Farhat Jubeen, Aisha Liaqat, **Misbah Sultan**, Sania Zafar Iqbal, Imran Sajid and Farooq Sher. (2019). "Green synthesis and biological evaluation of novel 5-fluorouracil derivatives as potent anticancer agents". Saudi Pharmaceutical Journal. 27: 1164–1173. <https://doi.org/10.1016/j.jsps.2019.09.013>. (IF= 4.562)
 24. Ismat Bibi, Shumaila Javed, Sadia Ata, Farzana Majid, Shagufta Kamal, **Misbah Sultan**, Kashif Jilani, Muhammad Umair, Muhammad Iftikhar Khan and Munawar Iqbal. (2019) Biodegradation of synthetic orange G dye by Plearotus sojar-caju with Punica granatum peal as natural mediator. Biocatalysis and Agricultural Biotechnology, 22, 101420. <https://doi.org/10.1016/j.bcab.2019.101420>.
 25. Ata, Sadia, Anila Tabassum, Ismat Bibi, Farzana Majid, **Misbah Sultan**, Samina Ghafoor, Muhammad Arif Bhatti, Naseem Qureshi, and Munawar Iqbal. (2019) "Lead Remediation Using Smart Materials. A Review." Zeitschrift für Physikalische Chemie. 233(10): 1377–1409. <https://doi.org/10.1515/zpch-2018-1205>. (IF= 4.315)
 26. **Misbah Sultan**, Rashid Masood, Ismat Bibi, Imran Sajid, Atif Islam, Sadia Atta, Maliha Uroos, Yusra Safa, and Haq Nawaz Bhatti. (2019) "Impact of soft segment size on physicochemical and antimicrobial properties of waterborne polyurethane dispersions for textile applications." Progress in Organic Coatings 133: 174-179. <https://doi.org/10.1016/j.porgcoat.2019.04.051>. (IF= 6.206)
 27. **Misbah Sultan**, Alina Waheed, Ismat Bibi, and Atif Islam. (2019) "Ecofriendly Reduction of Methylene Blue with Polyurethane Catalyst." International Journal of Polymer Science 2019. Volume 2019, Article ID 3168618, 9 pages. <https://doi.org/10.1155/2019/3168618>. (IF= 2.973)
 28. Asim, Azmat Mehmood, Maliha Uroos, Sadia Naz, **Misbah Sultan**, Gregory Griffin, Nawshad Muhammad, and Amir Sada Khan. (2019) "Acidic ionic liquids: Promising and cost-effective solvents for processing of lignocellulosic biomass." Journal of Molecular Liquids: 110943. <https://doi.org/10.1016/j.molliq.2019.110943>. (IF= 6.633)
 29. Ismat Bibi, Sabir Hussain, Farzana Majid, Shagufta Kamal, Sadia Ata, **Misbah Sultan**, Muhammad Imran Din, Munawar Iqbal, and Arif Nazir. (2019) "Structural, Dielectric and Magnetic Studies of Perovskite [Gd_{1-x}M_xCrO₃ (M= La, Co, Bi)] Nanoparticles: Photocatalytic Degradation of Dyes." Zeitschrift für Physikalische Chemie. 233(10): 1431–1445. <https://doi.org/10.1515/zpch-2018-1162>. (IF= 4.315)
 30. Yusra Safa, Saadia Rashid Tariq, Haq Nawaz Bhatti, **Misbah Sultan**, Ismat Bibi and Shazia Nouren. (2018) Synthesis and characterization of sugarcane bagasse/zinc aluminium and apple peel/zinc aluminium biocomposites: Application for removal of reactive and acid dyes. Membrane Water Treatment, Vol. 9, No. 5, 301-307. [doi:https://doi.org/10.12989/mwt.2018.9.5.301](https://doi.org/10.12989/mwt.2018.9.5.301).
 31. Atta, Sadia, Mehreen Fatima, Atif Islam, Nafisa Gull, and **Misbah Sultan**. (2018) "Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Preconcentration of

- Pesticides in Drinking Water." In Key Engineering Materials, vol. 778, pp. 316-324. Trans Tech Publications, 2018. [doi:10.4028/www.scientific.net/KEM.778.316](https://doi.org/10.4028/www.scientific.net/KEM.778.316).
32. Ata Sadia, Ifra Shaheen, Samina Ghafoor, **Misbah Sultan**, Farzana Majid, Ismat Bibi, and Munawar Iqbal. (2018) "Graphene and silver decorated ZnO composite synthesis, characterization and photocatalytic activity evaluation." Diamond and Related Materials 90: 26-31. <https://doi.org/10.1016/j.diamond.2018.09.015>. (IF= 3.806)
 33. **Misbah Sultan**. (2018) Hydroxyapatite/polyurethane composites as promising biomaterials. Chemical Papers. 72: 2375–2395. <https://doi.org/10.1007/s11696-018-0502-y>. (IF= 2.146)
 34. Anbreem Bashir, Sehrish Jabeen, Nafisa Gull, Atif Islam, **Misbah Sultan**, Abdul Ghaffar, Shahzad Maqsood Khan, Sadia Sagar Iqbal, Tahir Jamil. 2018. Co-concentration effect of silane with natural extract on biodegradable polymeric films for food packaging. International Journal of Biological Macromolecules. International Journal of Biological Macromolecules 106 351–359. <http://dx.doi.org/10.1016/j.ijbiomac.2017.08.025>. (IF= 8.025)
 35. **Misbah Sultan**, Asma Javeed, Maliha Uroos, Muhammad Imran, Farhat Jubeen, Shazia Nouren, Nazish Saleem, Ismat Bibi, Rashid Masood, Waqas Ahmed. (2018) Linear and crosslinked Polyurethanes based catalysts for reduction of methylene blue. Journal of Hazardous Materials 344 210–219. <https://doi.org/10.1016/j.jhazmat.2017.10.019>. (IF= 14.224)
 36. **Misbah Sultan**, Yashfa Nazar, Aumera Khursheed, Muhammad Imran and Yusra Safa. 2017. Synthesis and Characterization of Cellular Polyurethane as Redox Catalyst. Chemical Science International Journal, ISSN: 2456-706X: 19(4), 1-7. [doi:10.9734/CSJI/2017/34270](https://doi.org/10.9734/CSJI/2017/34270).
 37. **Misbah Sultan**, Sadia Atta, Haq Nawaz Bhatti, Atif Islam, Tahir Jamil, Ismat Bibi, and Nafisa Gull. 2017. Synthesis, Characterization, and Application Studies of Polyurethane Acrylate Thermoset Coatings: Effect of Hard Segment. Polymer-Plastics Technology and Engineering, 57:53, 25532-25541, [doi: 10.1080/19443994.2016.1160439](https://doi.org/10.1080/19443994.2016.1160439). (IF= 2.439)
 38. Ismat Bibi, Nosheen Nazar, Munawar Iqbal, Shagufta Kamal, Haq Nawaz, Shazia Nouren, Yusra Safa, Kashif Jilani, **Misbah Sultan**, Sadia Atta, Fariha Rehman, Mazhar Abbas. 2017. Green and eco-friendly synthesis of cobalt-oxide nanoparticle: Characterization and photo-catalytic activity. Advanced Powder Technology, 28; 2035–2043. <http://dx.doi.org/10.1016/j.apt.2017.05.008>. (IF= 4.969)
 39. **Misbah Sultan**. 2017. Polyurethane for removal of organic dyes from textile wastewater. Environmental Chemistry Letters. 15:347–366. DOI 10.1007/s10311-016-0597-8. (IF= 13.615)
 40. Shazia Nouren, Haq Nawaz Bhatti, Munawar Iqbal, Ismat Bibi, Shagufta Kamal, Sana Sadaf, **Misbah Sultan**, Abida Kausar, Yusra Safa. 2017. By-product identification and phytotoxicity of biodegraded Direct Yellow 4 dye. Chemosphere 169,474e484. doi.org/10.1016/j.chemosphere.2016.11.080. (IF= 8.943)
 41. Ismat Bibi, Aneela Sultan, Shagufta Kamal, Shazia Nouren, Yusra Safa, Kashif Jalani, **Misbah Sultan**, Sadia Atta and Fariha Rehman. 2017. Extraction and quantification of phenolic compounds from Prunus armeniaca seed and their role in biotransformation of xenobiotic

- compounds. Korean J. Chem. Eng., 34(2), 392-399. [doi: 10.1007/s11814-016-0275-3](https://doi.org/10.1007/s11814-016-0275-3). (IF= 3.146)
42. Yusra Safa, Haq Nawaz Bhatti, **Misbah Sultan**, Sana Sadaf. **2016**. Synthesis, characterization and application of wheat bran/zinc aluminium and tea leaves waste/zinc aluminium biocomposites: kinetics and thermodynamics modeling. Desalination and Water Treatment. 57: 25532–25541. <https://doi.org/10.1080/19443994.2016.1160439>. (IF= 1.273)
43. Sidra Waheed, **Misbah Sultan**, Tahir Jamil, Tousif Hussain. **2015**. Comparative analysis of hydroxyapatite synthesized by sol-gel, ultrasonication and microwave assisted technique. Materials Today: Proceedings 2; 5477 – 5484. [doi: 10.1016/j.matpr.2015.11.073](https://doi.org/10.1016/j.matpr.2015.11.073). (IF= 4.036)
44. **Misbah Sultan**, Atif Islam, Nafisa Gull, Haq Nawaz Bhatti, Yusra Safa. **2015**. Structural variation in soft segment of waterborne polyurethane acrylate nanoemulsions. Journal of Applied Polymer science. 132 (12): 41706. [doi: 10.1002/APP.41706](https://doi.org/10.1002/APP.41706). (IF= 3.057)
45. Atif Islam, Tariq Yasin, Aneela Sabir, Shahzad Maqsood Khan, **Misbah Sultan**, Muhammad Shafiq, Asad U. Khan and Tahir Jamil. **2015**. High-temperature electrical properties of silane cross-linked chitosan/poly(vinyl alcohol) membrane: thermal, mechanical and surface characterization/ e-Polymers: 15(4): 255–261. [doi:10.1515/epoly-2015-0048](https://doi.org/10.1515/epoly-2015-0048). (IF= 3.074)
46. Sana Sadaf, Haq Nawaz Bhatti, Muhammad Arif, Misbah Amin, Farva Nazar & **Misbah Sultan** (2015). Box–Behnken design optimization for the removal of Direct Violet 51 dye from aqueous solution using lignocellulosic waste. Desalination and Water Treatment. 56 (2015) 2425–2437 [DOI: 10.1080/19443994.2014.968215](https://doi.org/10.1080/19443994.2014.968215). (IF= 1.273)
47. **Misbah Sultan**, Bhatti H. N., Zuber M. and Barikani M. and Jamil T. (2014) Structure-Property Relationship and Structural Study of Polyurethane-Urea Elastomers. Journal of Chemical Society of Pakistan: Vol. 36, No. 2,332-337. (IF= 0.036)
48. **Misbah Sultan**, K. M.; Bhatti, H. N.; Jamil, T; Hussain, R.; Zuber, M.; (2012) Modification of cellulosic fiber with polyurethane acrylate copolymers, Part I: Physicochemical properties. Carbohydrate Polymers: 87; 397-404. <https://doi.org/10.1016/j.carbpol.2011.07.070>. (IF= 10.723)
49. **Misbah Sultan**, Haq Nawaz Bhatti, Mohammad Zuber and Mehdi Barikani. **(2013)** Synthesis and characterization of waterborne polyurethane acrylate copolymers. Korean Journal of Chemical engineering. 30(2), 488-493. [doi: 10.1007/s11814-012-0148-3](https://doi.org/10.1007/s11814-012-0148-3). (IF= 3.146)
50. **Misbah Sultan**, Haq Nawaz Bhatti, Mohammad Zuber, Ijaz Ahmad Bhatti, Munir Ahmad Sheikh. **(2011)** Improvement of performance behavior of cellulosic fiber with polyurethane acrylate copolymers. Carbohydrate Polymers: 86; 928-935. <https://doi.org/10.1016/j.carbpol.2011.05.045>. (IF= 10.723)
51. **Misbah Sultan**, Haq Nawaz Bhatti and Zafar Iqbal. (2005) Chemical Analysis of Essential Oil of Ginger (*Zingiber officinale*). Pakistan Journal of Biological Sciences. 1576-1578.

PROJECTS AWARDED

1. ***“Development of Polyurethane Based Phase Change Materials for Textiles”.*** 20th June 2016. Funded by Higher Education Commission of Pakistan of worth **2,489,134/- million PKR.** (PI)
2. ***“Synthesis and Characterization of Amphiphilic Triblock Polyurethane Copolymers to Mimic Biomembranes”.*** 10th February 2015. Funded by Higher Education Commission of Pakistan and worth is **10,207,271/- million PKR.** (PI)
3. ***“Synthesis & Characterization of Polyurethane Composite Membranes”.*** 20th March 2013. Funded by Higher Education Commission of Pakistan and worth was **0.465 million PKR.** (PI)
4. ***“Synthesis and Characterization of Amphiphilic Triblock Polyurethane Copolymers”.*** 2014. Funded by University of the Punjab, Lahore and worth were **150,000/- PKR.**
5. ***Synthesis and Characterization of Polyurethane Biomaterials.*** 2015. Funded by University of the Punjab, Lahore and worth were **150,000/- PKR.**
6. ***“Fabrication & Structure-Property Relationship Study of Polyurethane Fibers”.*** 2016. Funded by University of the Punjab, Lahore and worth were **150,000/- PKR.**

JOB EXPERIENCE

1. Associate Professor, August 2020 to date. Institute of Chemistry, University of the Punjab, Lahore.
2. Assistant Professor, December 2014 to August 2020. Institute of Chemistry, University of the Punjab, Lahore.
3. Assistant Professor, May 2014 to December 2014. Dept. of Polymer Engineering, National Textile University, Faisalabad.
4. Assistant Professor, October 2012 to April 2014. Dept. of Polymer Engineering & Technology, University of the Punjab, Lahore.

CONFERENCES/ WORKSHOPS PARTICIPATED/ATTENDED

1. International Chemistry Conference on recent advances in Chemistry, Lahore College for Women University, 2-3 November, 2007.
2. 18th National Chemistry Conference, Chemical Society of Pakistan, 25-27th February, 2008. University of the Punjab, Lahore, Pakistan.
3. 1st Junior National Chemistry Symposium, October 19-22, 2008. The University of AJ & K, HEC & NCGC.
4. 3rd International Symposium on Biomedical Materials: Recent Advances and Challenges December 18-20, 2012. Comsats Institute of Information Technology, Lahore, Pakistan.
5. Short Course on Porous Carbon Materials & Polymer-Fiber Composites, May 28-30, 2013. Pakistan Institute of Engineering and Applied Sciences, Islamabad, Pakistan.
6. Workshop on Modeling and Simulation of Materials (Density Functional theory), September 23-25, 2014. Pakistan Institute of Nuclear Science and Technology, Islamabad, Pakistan.

7. Chemistry: Exploring Solutions in the Changing World, October 05-08, 2015. Chemical Society of Pakistan, Dept. of Chemistry and Biochemistry and Biotechnology, Islamia University of Bahawalpur, Pakistan.
8. 2nd Conference on Emerging Materials and Processes, December 22nd-23rd, 2015. School of Chemicals and materials Engineering, NUST Islamabad.
9. One Day Workshop on Chemical Entrepreneurship, April 20, 2015. Department of Chemistry, Forman Christian College, Chartered University, Lahore.
10. Three day Workshop on *Computational Chemistry: A New Approach to Understanding & Solving Chemical Problems*, 20-22 January, 2016. Department of Chemistry, Forman Christian College, Chartered University, Lahore.
11. PAKPLAS the International Plastic Expo 2016. Conferences and Seminars, 25-27 March 2016. Organized by Pakistan Plastic Manufacturers Association at Expo Center, Lahore.
12. International Conference on Advanced Materials and Emerging Technologies, ICAMET 2016, 28–29th November. University of Engineering and Technology Lahore, Pakistan.
13. 3rd Pakistan Coating Show 2017, 19-21 January, Conferences & Seminars. Lahore International Expo Centre, Pakistan.
14. The 1st International Conference on Emerging Trends in Earth & Environmental Sciences, ICEES 2017, 09-10 March. College of Earth and Environmental Sciences (CEES), University of the Punjab, Lahore, Pakistan.
15. 1st International Conference on Separation Process, ICSP 2017, 26-27th April. COMSATS Institute of Information Technology, Lahore, Pakistan.
16. Chemistry Conference (2017): Green and Sustainable Chemistry, 13-15 November, 2017, Department of Chemistry, Sultan Qaboos University, Muscat, Oman.
17. 3rd International Conference on Recent Trends in Chemistry, 23-24 November, 2017, Academic Complex, Allama Iqbal Open University, Islamabad.
18. International Conference on Chemical sciences for sustainable Developments, September 06-08, 2018 at University of Peshawar.
19. 7th International Chemistry Conference (ICC) 2018 November 12-14, 2018 at Chemistry Department, King Saud University, Riyadh, KSA.
20. International Conference on Modern Trends in Chemistry and Energy Technologies, October 22-23, 2018 at Department of Chemistry, COMSATS University Islamabad, Lahore Campus.
21. International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability" 6-7 February, 2019, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
22. Recent Innovations in Molecular Sciences, November 6-8, 2019, University of the Punjab, Lahore, Pakistan.
23. 18th International Chemistry & 30th National Conference on Recent Trends in Chemistry-ccumt-2019, November 27-29, 2019, Department of Chemistry, University of Management Technology, Lahore.

24. International Conference on Ionic Liquids for Sustainable Future. March 10, 2022. Centre of Research in Ionic Liquids (CRIL), School of Chemistry, University of the Punjab, Lahore.
25. Recent Advances in Interdisciplinary Natural Sciences, 27-28 January, 2022. Department of Chemistry, GCWU Faisalabad.
26. International Conference & Exhibition for Science (ICES2023), February 6–8, 2023. College of Science, King Saud University, Al Riyadh, Saudi Arabia.

Students Supervised

Ph.D = 02

M.Phil = 18

M.Sc./ B.S = 22

EDUCATIONAL HONORS

- Indigenous fellowship award for Ph.D studies from Higher Education Commission of Pakistan (2006-2012)
- Overseas scholarship award (six month) for advance research from Higher Education Commission of Pakistan (2010)
- Qualified international subject (Chemistry) GRE (2010)
- Merit scholarship for masters studies (2003-2005)
- 1st position/Silver Medal at master's level (2005)
- Merit scholarship for B.Sc. studies (2001-2003)

MEMBERSHIPS

- Life time member of Chemical Society of Pakistan (CSP).