

DR. SYED SALMAN SHAFQAT

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Google Scholar: <https://scholar.google.com/citations?user=boJpGNgAAAAJ&hl=en>

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PERSONAL INFORMATION:

Religion: Islam

Marital Status: Married

Nationality: Pakistan

Passport: BZ5188544

ACADEMIC QUALIFICATIONS:

PhD (UNIMAS, Malaysia)	2013-2016
Thesis; Syntheses and Characterization of Silica Nanoparticles Grafted with Selected Heterocyclic Derivative	
MS in Organic Chemistry (Pakistan)	2008-2010
Thesis; Synthesis of Nitrophenylfurfural Derivatives	
BS in Organic Chemistry (Pakistan)	2003-2007
Thesis; Synthesis of Aryl and Hetaryacrylic acids	

WORK EXPERIENCE:

- Assistant Professor at Department of Chemistry, University of Education, Township Campus, Lahore Pakistan since 21-03-2019 to Date.
- Assistant Professor at Department of Chemistry, University of Management and Technology, Sialkot, Pakistan from 12-03-2018 to 13-03-2019.
- Assistant Professor (IPFP) at Department of Chemistry, University of Gujrat, Pakistan from 01-05-2017-01-04-2018.
- Demonstrator at Institute of Chemistry, University of the Punjab from September 2009 to August 2010.
- Lecturer (visiting) at Institute of Biochemistry and Biotechnology, University of the Punjab from October 2011 to January 2012.
- Lecturer Punjab group of Colleges Sialkot from July 2010 to August 2012.
- Science trainer at Punjab Education Foundation from January 2009 to June 2010

Research Out put

GRANTS

- Start-Up Research Grant no. **SRGP#1390**, worth **0.5 Million PKR** in 2017.
- HEC Travel **Grant no. 276.59** to attend the UNIMAS SILVER JUBBLIE CONFERENCE held on 18-20, October in 2017.
- PHEC Travel Grant no. PHEC/A&R/ITG/1-555 attend International Conference on Sustainable Process and Clean Energy Transition 2022 (ICSuPCET) on 01-02, December 2022.

Invited Speaker

- Invited Speaker at Second Scientific Colloquium held at Graduate College Jhelum, Pakistan on 21-22, Feb, 2025.
- Invited Speaker at 1st International Conference on Chemistry of Medicinal Plants 01-03, July 2024 organized by Department of Chemistry, Karakoram International University, Gilgit.
- Invited Speaker at International Conference on Material Chemistry and Industrial Technologies MCIT-24 held at The University of Lahore, Pakistan on 24-25, April, 2024.

- Invited Speaker at International Online Conference on Nano Materials (ICN–2022) held at Mahatma Gandhi University, Kottayam, Kerala, India on 12-14 August 2022.
- Invited Speaker at International Conference on Chemical Sciences (ICCS-2022) held at Shah Abdul Latif University, Khairpur Mir's, Sindh, Pakistan on 29-31 March 2022
- Invited Speaker at International Virtual Conference on Chemistry and Applied Science Organized by Sci Erudition Group on April 21-22, 2022
- Invited Speaker at International Conference on Chemical and Materials Sciences (ICMS) held at The University of Lahore on 21-MAY, 2022.
- Invited Speaker at "Scientific Colloquium Spring-2020", organized by Department of Chemistry, Government Postgraduate College Jhelum, Pakistan held on March 20-21, 2020.

PUBLICATIONS

Year 2026

1. Molecular Interaction of Antihypertensive Drug Aliskiren With Ionic Surfactants, **Syed Salman Shafqat***, Misbah Khalid, Arshi Abbas, Muhammad Faizan Nazar, Syeda Amna Masood, Syed Rizwan Shafqat, Hafeez Ullah Khan, Abdulrahman A. Almehizia, Muhammad Asim Khan, Faizan Ahmad **Decision Pending, Journal of Dispersion Science and Technology.**
2. Anticancer Activity of Curcumin Loaded Hybrid System of Silver-Amine Functionalized Silica Nanoparticles, **Syed Salman Shafqat***, Hamza Wakeel, Muhammad Zubair, Syeda Amna Masood, Saba Rashid, Rawaiz Khan, Ali Bahadar, Muhammad Ashfaq, Amir Azam Khan **Accepted in Scientific Reports.** DOI : 10.1038/s41598-026-37829-9 **(I.F.=3.9)**
3. Unveiling electronic and structural properties of Rhodamine B: the combined experimental and computational study Amnah Yusaf, Asim Mansha, Noshin Afshan, Muhammad Usman, Muhammad Ahsan Bhatti, Ahmed Ahmed Ibrahim, Jamal Abdul Nasir, Shafaqat Ali, **Syed Salman Shafqat. Journal of the Iranian Chemical Society.** 2026 23/1 **(IF= 2.2)**

➤ Year 2025

4. Alginate-Encapsulated, Folic Acid–Conjugated Silica Nanoparticles: A Dual-Functional Platform for Coumarin-3-Carboxylic Acid Synthesis and Targeted Cancer and Diabetes Therapy. **Shafqat, S. S.**, Fatima, S., Khan, M. A., Zubair, M., Masood, S. A., Khan, R., ... & Zafar, M. N. (2025). **ChemistrySelect**, 10(48), e04863. **(1.F.=2)**
5. Silver-based nanomaterials as excellent sensors for environmental pollutants detection: a comprehensive review. Farwa, U., Rubab, U., Raza, M. A., **Shafqat, S. S.**, Afshan, N., Nadeem, M. A., . & Zafar, M. N. (2025). **Emergent Materials**, 1-31. **(1.F.=4.1)**
6. Advances in paper-based sensor fabrication: Multimodal sensing and AI integration for biomedical and environmental applications. Muna Shakeel, Alina Bari, Shihzad Shakil, Aisha Hamid, Adeel Habib, Muhammad Azeem, Mahjan Naeem, Rukhshan Zahid, Ayesha Ishtiaq, Noshin Afshan, Naseem Abbas, Muhammad Nadeem Zafar, **Syed Salman Shafqat, Microchemical Journal, 2025**, 115014. **(IF= 5.1)**
7. Advances in targeted drug delivery systems for cancer treatment: current trends and future prospects. Hafeez Ullah Khan, Nadeem Raza, Safirah Maheen, Hanzala Abbas, Mostafa E. Salem, Ikramullah Khan, Manal Naseem, **Syed Salman Shafqat* Journal of Drug Delivery Science and Technology.** (2025): 107402. **(IF= 4.9)**
8. Optimizing power conversion efficiency in (FA)₂BiCuI₆ double perovskite solar cells: advanced strategies for performance enhancement, Mahnoor Malik, Muhammad I. Masud,

- Muhammad Kashif, Maher Un Nisa Tariq, Mohammed Alqarni, **Syed Salman Shafqat**, **Results in Engineering**, September 2025, 27, 106124. (IF= 7.9)
9. Design, Statistical Optimization, In Vitro and Biological Characterization of Eudragit L100 Gelatin Based Buccoadhesive Bilayer Patch for Managing Chemotherapy Related Side Effects, Safirah Maheen, Mariam Sharif Awan, Hafeez Ullah Khan*, Shahid Shah, Ghulam Abbas, Ikramullah Khan, Abdulrahman A. Almehizia, Muhammad Asim Khan, AbdulMajeed, Sana Razzaq, Hina Younis, **Syed Salman shafqat *** (2025) **International Journal of Biological Macromolecules** (2025). (IF= 7.7).
 10. Next-Generation Optical Biosensors: Cutting-Edge Advances in Optical Detection Methods Alina Bari1, Sana Aslam, Hafeez Ullah Khan, Shihzad Shakil, Muhammad Yaseen, Salma Shahid, Amnah Yousaf, Noshin Afshan, **Syed Salman Shafqat**, Muhammad Nadeem Zafar (2025) **Plasmonics**, 1-27. (IF=3.3)
 11. Recent Advancement in the Conversion of 1,2,3-Benzotriazin-4(3H)-One to Other Heterocyclic Systems and Their Applications: A Concise Review, Zunera Khalid, Hafiz Adnan Ahmad, Munawar Ali Munawar, Rahila Huma, Noshin Afshan, **Syed Salman Shafqat**, (2025) **ChemistrySelect** 10, no. 5: e202404532. (IF=)

➤ **Year 2024**

12. Methodological optimization for efficient degradation of Acid Violet 49 using advanced oxidation processes and varied photocatalyst combinations Iqbal, A., Bokhari, T. H., Usman, M., Yusaf, A., Mansha, A., Saeed, M., Salahuddin Khan, Mazhar Iqbal, Muhammad Ahsan Bhatti, **Syed Salman Shafqat** & Zafar, M. N. (2024). **Scientific Reports**, 14(1), 1-14. (IF= 3.8)
 13. Facile synthesis of transition metal-selenides@ CNTs for electrochemical oxygen evolution reactions."Riaz, Shamas, Muhammad Ahmad, **Syed Salman Shafqat**, Munawar Iqbal, Gul Tasam, Maryam Kaleem, Syed Rizwan Shafqat, Habib Elhouichet, Mongi Amami, and Abid Ali. **Diamond and Related Materials** 150 (2024): 111655. (IF= 4.3)
 14. Optimization of solid-state dye sensitized solar cells (SSDSSCs) efficiency by incorporating different electron transport layers (ETLs) using SCAPS-1D Sumona, F. B., Kashif, M., Bencherif, H., Mahmud, N. A., Bahajjaj, A. A. A., & **Shafqat, S. S.** (2024). **Optical and Quantum Electronics**, 56(10), 1619. (IF= 4)
 15. Molecular interaction of nonsteroidal anti-inflammatory prodrug nepafenac with ionic surfactants Arshi Abbas, **Syed Salman Shafqat**, Muhammad Faizan Nazar, Hafeez Ullah Khan, Asma Mukhtar, Muhammad Tayyab, Asad Syed, Muhammad Nadeem Zafar, Syeda Amna Masood, Kashif Kamran 2024;1–15, **International Journal of Chemical Kinetics**. (IF= 1.187)
 16. Modification of Amino Functionalized Silica Nanoparticles with L-Proline and Furanacrylic Acid as Novel Composites for the Efficient Removal of Methyl Orange, **Syed Salman Shafqat**, Sajjad Hussain Sumrra, Sadia Akram, M. Ismail Vohra, Maria Nosheen, Syed Rizwan Shafqat, Muhammad Asim Khan, Abdulrahman A. Almehizia, Muhammad Nadeem Zafar (2024) **2024/4/16, Materials Today Communications**. (IF= 3.662)
 17. DFT and comparative adsorption study of NiO, MnO, and Mn₂NiO₄ nanomaterials for the removal of amaranth dye from synthetic water Ahmad, M., Riaz, Q., Tabassum, M., **Shafqat, S. S.**, tul Ayesha, A., Zubair, M., ... & Zafar, M. N. (2024). **RSC advances**, 14(39), 28285-28297. . (IF= 3.9)
 18. Nitrophenylfurfural grafted amino functionalized silica nanoparticles for adsorptive removal of tartrazine dye from water Shafqat, S. S., Zafar, B., Masood, A., Shafqat, S. R., Khan, H., Syed, A., ... & Zafar, M. N. (2024).. (2024) **Materials Advances**. (IF= 5.1)
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19. Chitosan-based smart polymeric hydrogels and their prospective applications in biomedicine. Rasool, A., Rizwan, M., Islam, A., Abdullah, H., **Shafqat, S. S.**, Azeem, M. K., ... & Bilal, M. (2024). *Starch-Stärke*, 76(1-2), 2100150. (IF= 2.7)

Year 2023

20. Development, optimization and in vitro-in vivo evaluation of solid lipid microparticles for improved pharmacokinetic profile of bisoprolol., Ilyas, S., Maheen, S., Andleeb, M., Khan, H. U., Shah, S., Abbas, G., & **Shafqat, S. S.** (2023). *Materials Today Communications*, 37, 107097. (IF= 3.662)
21. Exposure assessment of essential and potentially toxic metals in wheat-based sweets for human consumption: multivariate analysis and risk evaluation studies Ahmed, M., **Shafqat, S. S.**, Javed, A., Sanaullah, M., Shakoor, A., Shafiq, M. I., ... & Zargar, S. (2023). *Molecules*, 28(21), 7365. (IF= 4.9)
22. A Combined Experimental and Computational Study of Novel Benzotriazinone Carboxamides as Alpha-Glucosidase Inhibitors Zunera Khalid, **Syed Salman Shafqat**, Hafiz Adnan Ahmad, Munawar Ali Munawar, Suliman Yousef Alomar, Naushad Ahmad, Imran Khan, Syed Rizwan Shafqat, Rahila Huma, Abdullah Mohammed Asiri, (2023) *Molecules*. (IF= 4.9)
23. Template-assisted synthesis of molecularly imprinted polymers for the removal of methyl red from aqueous media, SR Shafqat, SA Bhawani, S Bakhtiar, MNM Ibrahim, SS Shafqat, (2023) *BMC chemistry* 17 (1), 1-18. (IF= 2.61)
24. Metal organic frameworks as promising sensing tools for electrochemical detection of persistent heavy metal ions from water matrices: A concise review Shafqat, S. S., Rizwan, M., Batool, M., Shafqat, S. R., Mustafa, G., Rasheed, T., & Zafar, M. N. (2023).. *Chemosphere*, 137920. (IF=8.06)

Year 2022

25. Superporous acrylic acid and HPMC hydrogels of mefenamic acid: Formulation, characterization and optimization by central composite design. Khan, H. U., Aziz, S., Maheen, S., Khan, I., Andleeb, M., Younis, H., ... & **Shafqat, S. S.** (2022). *Frontiers in Bioengineering and Biotechnology*, 10, 1057627. (IF= 4.8)
26. Metal-organic framework-based composites for the detection and monitoring of pharmaceutical compounds in biological and environmental matrices Muhammad Rizwan, Vidhya Selvanathan, Atta Rasool, Muhammad Anees Ur Rehman Qureshi, Dure Najaf Iqbal, Qudsia Kanwal, **Syed Salman Shafqat**, Tahir Rasheed, Muhammad Bilal (2022). *Water, Air, & Soil Pollution*, 233(12), 493. (IF= 3)
27. NaHCO₃ assisted multifunctional Co₃O₄, CuO and Mn₂O₃ nanoparticles for tartrazine removal from synthetic wastewater and biological activities. Zafar, B., Shafqat, S. S., Zafar, M. N., Haider, S., Sumrra, S. H., Zubair, M., & Akhtar, M. S. (2022). *Materials Today Communications*, 33, 104946. (IF= 3.383)
28. Experimental and Computational Analysis of Newly Synthesized Benzotriazinone Sulfonamides as Alpha-Glucosidase Inhibitors Khalid, Z., Alnuwaiser, M. A., Ahmad, H. A., Shafqat, S. S., Munawar, M. A., Kamran, K., & Ewida, M. A. (2022).. *Molecules*, 27(20), 6783. (IF= 4.927)
29. Enhanced electrochemical activity of Co₃O₄/Co₉S₈ heterostructure catalyst for water splitting. Nadeem Asghar Khan, Iqbal Ahmad, Naghmana Rashid, Muhammad Nadeem Zafar, Farooq Khurum Shehzad, Anwar Ul-Hamid, Muhammad Faizan Nazar, Muhammad Junaid, Muhammad Faheem, **Syed Salman Shafqat**, Uzma Jabeen, Alaa Dahshan. (2022). *International Journal of Hydrogen Energy*, 47(72), 30970-30980. (IF=8.3)
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30. Enhanced Antifungal and Wound Healing Efficacy of Statistically Optimized, Physicochemically Evaluated Econazole-Triamcinolone Loaded Silica Nanoparticles Safirah Maheen , Hina Younis, Hafeez Ullah Khan, Syed Salman shafqat*, Sajed Ali , Atta Ur Rehman , Saliha Ilyas, Muhammad Nadeem Zafar , Syed Rizwan Shafqat , Abul Kalam and Ahmed A. Al-Ghamdi. **5/2022 *Frontiers in Chemistry* Volume 10. (IF=6.6)**
31. Synthesis of 1,2,3-Benzotriazin-4(3H)-one derivatives as α -glucosidase inhibitor and their in-silico study Zunera Khalid, ***Syed S. Shafqat***, Hafiz A. Ahmad, Hafiz Muzzamil, Munawar A. Munawar, Matloob Ahmad, Abdullah M. A. Asiri, Muhammad Ashraf. **2022/5, *Medicinal Chemistry Research*, Volume 31, Issue 5, Pages 819-83. (IF= 1.980)**
32. Antibacterial and Wound-Healing Activities of Statistically Optimized Nitrofurazone- and Lidocaine-Loaded Silica Microspheres by the Box–Behnken Design Hafeez Ullah Khan, Fahmeed Nasir, Safirah Maheen, ***Syed Salman Shafqat***, Shahid Shah, Ahmed Khames , Mohammed M. Ghoneim , Ghulam Abbas, Saleha Shabbir, Mohamed A. Abdelgawad, Mohammad A. S. Abourehab, Amna Irfan and Amani M. El Sisi, **2022/4/14, *Molecules*. Volume7, issue 8, 2532. (IF= 4.927)**
33. Metal incorporated sulfonamides as promising multidrug targets: Combined enzyme inhibitory, antimicrobial, anti-oxidant and theoretical exploration. Sajjad Hussain Sumrra, Abrar Ul Hassan, Muhammad Nadeem Zafar, ***Syed Salman Shafqat***, Ghulam Mustafa, Muhammad Naveed Zafar Muhamma, Zubair, Muhamma Imran (**2022/2/15**), Volume 1250, Pages 131710 ***Journal of Molecular Structure* Volume 1250, Issue 2. (IF=2.001)**
34. Metal Based Bioactive Nitrogen and Oxygen Donor Mono and Bis Schiff Bases: Design, Synthesis, Spectral Characterization, Computational Analysis and Antibacterial Screening, Sajjad Hussain Sumrra, Wardha Zafar, Sabaahatul Ain Malik, Khalid Mahmood, ***Syed Salman Shafqat*** and Saira Arif (**15/3/2022**) Volume 69, Issue 1 ***Acta Chimica Slovenica*. (IF=1.735).**
35. Formulation, characterization and optimization by central composite design. Khan, H. U., Aziz, S., Maheen, S., Khan, I., Andleeb, M., Younis, H., ... & ***Shafqat, S. S.*** (2022). Superporous acrylic acid and HPMC hydrogels of mefenamic acid: ***Frontiers in Bioengineering and Biotechnology*, 10, 1057627. (Impact Factor= 5.647)**

Year 2021

36. Formulation, Characterization, and Pharmacokinetic Evaluation of Ivabradine-Nebivolol Co-Encapsulated Lipospheres, Muhammad Hanif, Hafeez Ullah Khan, Safirah Maheen, ***Syed Salman Shafqat*** , Shahid Shah, Ghulam Abbas, Muhammad Rizwan, Tahir Rasheed, Muhammad Bilal, **2021/12/15, *Journal of Molecular Liquids*, Volume 344, Pages 117704, *Journal of Molecular Liquids* (IF=6.165)**
37. Modeling of phenol separation from water by NiFe₂O₄ nanocomposite using response surface methodology and artificial neural network techniques Leili Mohammadi, Muhammad Nadeem Zafar, Maqzia Bashir, Sajjad Hussain Sumrra, ***Syed Salman Shafqat***, Amin Allah Zarei, Hamid Dahmardeh, Iqbal Ahmed, Mohammed Ibrahim Halawa, (**1/8/2021**), Volume 9, Issue 4, Pages 105576. ***Journal of Environmental Chemical Engineering* (IF=5.909)**
38. Development in Biomaterials Based Scaffolds for Tissue Engineering Applications, ***Syed Salman Shafqat***, Syed Rizwan Shafqat and Syeda Amna Masood Recent (**2021**) ***Acta Scientific Pharmaceutical Sciences* Volume 5 Issue 10. (IF=1.020)**
39. In Silico Approach Towards the Prediction of Drug-Likeness; Synthesis and In Vitro Evaluation of Biphenyl Derivatives M Irshad, SB Jamal, M Faheem, M Aslam, ***SS Shafqat***, A Kanwal (2021) ***Russian Journal of General Chemistry* Volume 91 Issue 6 Pages 1084-1092 (IF=0.81).**

40. Synthesis, characterization, biological screening and determination of stability constants of N, N'-Bis [1-(4-chlorophenyl) ethylidene] ethane-1, 2-diamine Muhammad Aslam, Asad Gulzar, Rashad Mehmood, Zahra Noreen, Ghania Asad, **Syed Salman Shafqat**, Muhammad Faizan, Misbah Irshad (2021) **SN Applied Sciences** Volume 3 Issue 1 Pages 1-7.

Year 2020

41. Comparative Studies of Lead and Heavy Metals Concentrations in Pakistan Soil and Its Toxic Effect, Asrar Ahmad, Shabbir Hussain, Sajid Mahmood Rao, Amina Asghar, Misbah Irshad, Muhammad Aslam, **Syed Salman Shafqat**, Mohsin Javed, Muhammad Shahzad Bashir, Hafiza Samreen Kausar **Polish Journal of Environmental Studies** Vol. 29, No. 4 (2020), 1-10. (I.F. = 1.186).
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42. Immobilization of Pseudomonas aeruginosa static biomass on eggshells powder for on-line preconcentration and determination of carcinogenic Cr(VI)", **Open Chemistry** Aamir Rasheed, Tahseen Ghous, Sumaira Mumtaz, Muhammad Nadeem Zafar*, Kalsoom Akhter, Rabia Shabir, Zain-ul-Abdin, Syed Salman Shafqat, 2020; 18: 303–313. (I.F. = 1.512)
43. Sugar-Catalyzed Synthesis of Triarylimidazoles—An Exemplary Model of Sweet Chemistry, F. Ijaz, **S. S. Shafqat**, R. Babar, M. Rizwan, M. N. Zafar, M. A. Khana, and M. A. Munawar, **Russian Journal of Organic Chemistry**, 2020, Vol. 56, No. 3, pp. 509–513. (I.F.= 0.751).
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Year 2019

44. Synthesis and characterization of MgO supported Fe–Co–Mn nanoparticles with exceptionally high adsorption capacity for Rhodamine B dye, Somayeh Rahdar, Abbas Rahdar, Muhammad Nadeem Zafar, **Syed Salman Shafqat**, Shahin Ahmadi. **Journal of Material Research & Technology**, 8(5):3800–3810 3801 (2019). (ISI Indexed) (I.F.= 5.289)
45. Sulfonamide hybrid schiff bases of anthranilic acid: synthesis, characterization and their biological potential. Naghmana Kausar, Shahzad Murtaza, Muhammad Asam Raza, Hummera Rafique, Muhammad Nadeem Arshad, Ataf Ali Altaf, Abdullah M. Asirib, **Syed Salman Shafqat**, Syed Rizwan Shafqat, **Journal of Molecular Structure** 1185 (5) 2019). (I.F.= 2.12)
46. Chemical pretreatments of Trapa bispinosa's peel (TBP) biosorbent to enhance adsorption capacity for Pb(II) Muhammad Nadeem Zafar, Muzna Saeed, Raziya Nadeem*, Sajjad Hussain Sumra **Syed Salman Shafqat**, Muhammad Abdul Qayyum **Open Chem.**, (2) 122–135 (2019). (ISI Indexed) (I.F.= 1.512)
47. Vic-Tricarbonyl compounds of Quinolines: Analogues of Ninhydrin - A Short Review In Review Fatima Ijaz*, **Syed Salman Shafqat**, H. Adnan Ahmed, Munawar Ali Munawar, Misbahul Ain Khan, **Journal of Heterocyclic Chemistry** 56, 1231-1238 (2019). (I.F.= 1.241)
48. Developments of amino functionalized silica nanoparticles for efficient and rapid removal of COD from pretreated palm oil effluents, **Syed Salman Shafqat**, Haji Al Hji, Amir Azam Khan, Syed Rizwan Shafqat, Shahzad Murtaza, Muhammad Nadeem Zafar **Journal of Material Research and Technology**;8(1):385–395 (2019) (I.F.= 5.289)
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Year 2018

49. Removal of Congo red dye from aqueous solution using branches of *Ficus Religiosa* Best paper award in USJC. **Syed Salman Shafqat***, Maria Nosheen, Amir Azam Khan, Syed Rizwan Shafqat, Shahzad Murtaza, Muhammad Nadeem Zafar, Muhammad Zubair **Malaysian Applied Biology** 47(1), 130-108 (2018).
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Year 2017

50. Green Synthesis and Characterization of 3-Carboxycoumarin and Ethylcoumarin-3-carboxylate via Knoevenagel Condensation. **Shafqat, S. S.**, Khan, A. A., Khan, M. A., Salleh, S. F., Jamaludin, M. S., & PANG, S. C. (2017). *Asian Journal of Chemistry*, 29(2).
51. Environmentally Benign of Synthesis and Characterization of 4-aryl-3,4-dihydropyrimidin-2(1H)-ones; **Syed Salman Shafqat**, Amir Azam Khan, Misbahul Ain Khan, Nicholas Kuan Hoo Tien, Mohd Syahmi Jamaludin, Pang Suh Cem. *MaTEC Web of Conference* 87 , 02025 (2017) (Scopus indexed)
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Year 2016

52. Efficient Eco-friendly Synthesis of Pyrazole acryloyl Analogues by Amino Acid Catalysis, Faryal Chaudhry, (2016) **Syed Salman Shafqat**, Amir Azam Khan, Munawar Ali Munawar, Misbahul Ain Khan. *Synthetic Communications* 46(8), 701-709 (I.F.= 1.377)

Year 2014

53. Synthesis of Arylidene Propanedioic Acids by Knoevenagel Condensation for use in Ceramic Sols. (2014), **Syed Salman Shafqat**, Misbahul Ain Khan, Azham Zulkharnain, Sinin Hamdan, Andrew Ragai Henry Rigit, Amir Azam Khan. *Asian Journal of Chemistry*; 26(24), 8463-8466. (I.F.= 0.14).
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CONFERENCE PROCEEDINGS

54. Synthesis and characterization of Heterocyclic-ORMOCERS composites through Sol-gel process: A Review; **Syed Salman Shafqat**, Sinin Hamdan, Andrew Ragai Henry Rigit, Nicholas Kuan Hoo Tien, Shanti Faridah Saleh, Amir Azam Khan. (2014). *Proceedings of 5th International Conference on Science & Technology Applications in Industry & Education (ICSTIE)*; e-ISBN: 978-967-11647-4-7.
55. Comparative study of adsorptive removal of oxyanion ($\text{Cr}_2\text{O}_4^{2-}$) from aqueous media over unmodified and magnetically modified Melia azedarach, M Nosheen, AA Khan, M Salman, SS Shafqat, M Sajid, M Rizwan, M Aslam, F Ijaz *IOP Conference Series: Materials Science and Engineering IOP Publishing* (2021) Volume 1101 Issue 1 Pages 012031.
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BOOK/ CHAPTERS

- Curcumin Bioavailability and Sustainability as Therapeutic Agent ELSEVIER Paperback ISBN: 9780443291968, eBook ISBN: 9780443291975
- MXene-based hybrid nanostructures for detection and purification of pharmaceuticals and personal care products. In MXenes as Emerging Modalities for Environmental and Sensing Applications Shafqat, S. S., Mukhtar, A., Khan, H. U., Zafar, M. N., Asghar, M. A., Shafqat, S. R., & Rasheed, T. (2025). (pp. 133-152). Elsevier.
- Metallopolymers-A Value-added approach to the modern days needs, *Areej Fatima, Wardah Zafar, Sajjad Hussan, Sumrra, Muhammad Zubair, Syed Salman Shafqat, Muhammad Nadeem Zafar*, Book Title, Advances in Material Research in Technology, Volume: Advanced Polymers, Published by Springer
- Graphene Based Nanocomposites: Synthesis, Characterization and Energy Harvesting Applications Summan Aman, Maqzia Bashir, Muqaddas Baigum, Muhammad Faizan Nazar, Sajjad Hussain Sumrra, Syed Salman Shafqat, and Muhammad Nadeem Zafa

- Organic –Inorganic Nanohybrids based sensor for volatile organic compounds Syed Rizwan Shfaqat, *Syed Salman Shafqat*, Muhammad Rizwan Book Title: Hybrid Nanomaterials Book Subtitle Biomedical, Environmental and Energy Applications ISBN978-981-19-4537-3

CONFERENCES/WORKSOPS ATTENDED

Oral Presentations

- Oral Presentation at “International Dicle Scientific Studies and Innovation Congress organized by Diyarbakir - Turkey on 28-29 MAY 2022.
- Oral presentation at International Palandoken Scientific Studies Congress (ISARC) Hel on 28-29 APRIL 2022.
- Oral Presenter at “9th International Istanbul Scientific Research Congress” organized by BZT Academy & Yıldız Technical University held on MAY 14-15, 2022.
- Oral presentation at International Conference 5th International Newyork Academic Research Congress organized by BZT AKADEMİ YAYINEVİ on April 23-24, 2022
- Oral presentation at International Conference “Second International Conference on Advances in Materials Science (AIMS) ” 5-6 October 2021 organized by University of Education.
- Oral presentation at International Conference “2nd international conference on nanotechnology and its applications at” 7-8 July 2021 organized by university in Erbil Iraq.
- Oral presentation at International Conference “1st international industrial chemistry ICSE 2021 conference” 26-27 February 2021 organized by NED Karachi.
- Oral presentation at International Conference “AIMS 2020 ” on 27-28 October, 2020 organized by University of Education, Lahore.
- Oral presentation (Best Presenter Award) at “2020 Research Symposium” held at University of Sahiwal on 29 February 2020.
- Oral presentation at “Three-day international conference on: Medicinal & Pharmaceutical Chemistry” held at Forman Christian College (A chartered University) on 29-31 January 2020.
- Poster presentation at International Conference Punjab University (ICPU 2019) on “Recent Innovations in Molecular Sciences” on November 06-08, 2019.
- Oral presentation at “International Conference on Science and Technology (ICSTIE)” held in Penang (Malaysia) on 1-18 September 2014.
- Poster presentation at “International Conference on Advanced Materials (ISAM)” held at Institute of Space Technology on September 2013.

WORKSOPS ATTENDED

- Participated in Workshop on “Effective Teaching Learning Process” held at Rachna College of Engineering & Technology, Gujranwala on 11 October 2019.
- Attended a “Short Course on Porous Carbons: Preparation, Characterization and some applications for water treatment” held at PIEAS on 12-13 June 2019.
- Participated in Workshop on “Discover HEC resources using Sumoon search and take your research to the next level using Refworks references management tool” organized Higher Education Commission on October, 12 2021.
- Participated in Workshop on “Step by step guide how to prepare a successful paper-Pakistan ” September 28, 2021.
- Participated in Workshop on “How to easily navigate through Springer nature platform” Organized by Higher Education Commission October 12, 2021.

CONFERENCES/SEMINAR/WEBINAR ORGANIZED

- 1st International Conference (Hybrid) Trends and Research in Chemistry (TRIC-2022) held on 18-19, January, 2022.

- 2nd International Conference Trends and Research in Chemistry (TRIC-2023-Hybrid), held on 16-18 May, 2023.
- 3rd International Conference (Hybrid) Trends and Research in Chemistry (TRIC-2024) held on 06-07 November, 2024.
- Organized One Day Webinar at Department of Chemistry, Division of Science & Technology, University of Education on “COVID-19 and Public Health: Lets Flatten the Curve together ” on May, 11, 2021 delivered by Dr. Abdul Qayyum
- Organized One Day Webinar at Department of Chemistry, Division of Science & Technology, University of Education on “Emerging contaminants and their transformation products a new challenge to chemists” on January 28, 2021, Delivered by Dr. Muhammad Ashfaq University of Gujrat.
- Organized One Day Seminar at Department of Chemistry, Division of Science & Technology, University of Education on “Electrical Wiring of Redox Enzymes with Electrodes: Routes to develop biosensors and energy producing devices” on March 12,2020 Delivered by Dr. Muhamad Nadeem Zafar, University of Gujrat.
- Organized one day seminar on “Sintered Ni-Cr composites with solid lubricants: Study of friction coefficient and friction force as a function of composition and content of solid lubricants”. At University of Education, Lahore on October 30, 2019.
- Organized One Day Webinar at Department of Chemistry, Division of Science & Technology, University of Education on “Process and machine learning to deliver industry 4.0 to the food and drink manufacture sector” on August 21, 2020 Delivered by Dr. Nicholas Watson Nottingham University UK.

THESIS SUPERVISED

- Grafting of N-Doped TiO₂ on Highly Porous Nanosilica for Improved Photocatalytic Activity (MS 2021).
- Comparative study of COD removal from industrial effluents over synthetic Silica and derived Silica from renewable resources. (MS 2021).
- Chitosan-heterocyclic based hydrogels as scaffolds for tissue engineering applications. (M.S. 2021).
- Development of Phenylfurfural Grafted Chitosan for adsorptive Removal of Organosulfur Compound from Crude Oil (MS 2021).
- Molecular Interaction of Antihypertensive Drug Aliskiren with Ionic Surfactants (MS in 2022).
- Molecular Interaction of Non-Steroidal Anti- Inflammatory Drug Nepafenac with Ionic Surfactant (MS 2022).
- Chitosan Coated Silica Nano carriers as a promising platform for Targeted Delivery of Anti-cancer drug Doxorubicin (MS 2022).
- Development of Minoxidil Loaded Silica Nanoparticles for Topical Treatment of Alopecia Areata (MS 2022).
- Anti-cancer Studies of Coumarin Derivative Loaded in Silica Nanoparticles Reinforced with Folic Acid Conjugated Alginate (MS 2022).
- Electrolytic Water Splitting for Efficient Oxygen Evolution Reactions using Carbon Nanotubes and their Composites as Electrocatalysts (MS 2022).
- Encapsulation of curcumin in novel γ -cyclodextrin metal organic frameworks: Sustained release kinetics and solubility studies (MS in 2023).
- Estimation of Toxic and Heavy Metals in Conventional Pakistani Sweets and their Impact on Human Health (MS in 2023).
- Schiff Bases Containing Sulfonamides; Synthesis, Characterization and Their Biological Activities (MS in 2023).

- Effect of (CaCO₃-MgO-Al₂O₃ SiO₂) Filler Modified Epoxy Resin on Mechanical Properties of Carbon Fiber Laminates (MS in 2024).
 - Anticancer and α -glucosidase Inhibitor Activity of Curcumin Loaded Hybrid System of Silver-Amine Functionalized Silica Nanoparticles (MS in 2024).
 - Development Of Chitosan-Silver Nanoparticles And Curcumin@Fenugreek Seeds Extract Composite Hydrogel And Their Biological Activities (MS in 2025).
 - Self-Polymerization Silica Nanoparticles-Based Molecularly Imprinted Polymers for selective Loading and controlled Release of Glimepiride (MS in Progress).
 - A Circular Approach to Metal Pollution: Transforming Contaminated Buffel Grass (*Cenchrus ciliaris*) Biomass into an Engineered Sorbent and Comparing its Efficacy with Pristine Plant Biochar (MS in Progress).
 - Single Atom Tungsten Catalyst on Carbon Nanotubes for Enhanced Photocatalytic Degradation of Ciprofloxacin (MS in Progress).
 - Kinetic Approach to Enhance Aqueous Solubility of Flurbiprofen by using Lysine, Arginine and Histidine (MS in Progress).
 - Enhancing Bioavailability of Lumefantrine by Interaction with Non Ionic Surfactants (MS in Progress).
 - Single-Atom Copper Catalysts Supported on Silica for Enhanced Photocatalytic Degradation of Methylene Blue (MS in Progress).
 - Formulation and Characterization of a Curcumin-Clove Oil Loaded Chitosan-Gelatin Emulgel with Multiple Therapeutic Activities (MS in Progress).
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MAJOR ACHIEVEMENTS:

- Best Paper award in Research Symposium 2020 held at University of Sahiwal on February 2020.
 - Advisor of “Alchemist Society at Department of Chemistry, University of Education.
 - Organized industrial visits for students to Bestway Cement Ltd, Ittehad Chemicals Industries, KSK, Liner Pak Gelatin, Mitchel’s Food industry and Tandlianwala Sugar Mills/ distillery Faisal Abad.
 - HEC talent farming Scholarship BS.
 - Student Co-coordinator of sports festivals, Seminars at Institute of Chemistry, University of the Punjab (PUIC), Lahore.
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REFERENCES:

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