

CURRICULUM VITAE

Name: Dr. NAZIA TARANNUM
Position: Assistant Professor
Department of Chemistry
University: CCS University Meerut
Nationality: Indian
E-mail: naz1012@gmail.com,
Contact: skype id:nazia.tarannum4
Research ID Profile URL: <http://www.researcherid.com/rid/A-9456-2012>
Languages Known: Hindi, English, Urdu, German (Elementary)



Academic studies

- Ph.D. awarded in August 2012 on topic "*Synthesis, characterization and analytical applications of certain polysulfobetaines and polycarbobetaines*" in Analytical Chemistry, from Department of Chemistry, Banaras Hindu University, Varanasi, India.
- Master of Science in Chemistry (2007) with specialization in Organic Chemistry from Department of Chemistry, Lucknow University, Lucknow, India. (Ist Division)
- Bachelor of Science (2005) from Lucknow University, Lucknow, India. (Ist Division)

Academic Accolades

- Qualified B.H.U. Combined Research Entrance Test-CRET 2007 (BHU Research Scholarship holder from July 2007-Dec 2008)
- Qualified CSIR Research Associate Fellowship from June 2013-March 2014.
- Received DST and INSA Travel Grant-2011 for presenting research paper in International Conference held at France.
- Received Centre for International co-operation in Science (CICS) INSA Travel Grant-2015 for presenting research paper in International Conference held at France from 5 Nov to 7 Nov 2015
- Received VIFA Young Faculty Award June 2016 (Category: Chemistry-Synthesis of Organic Polymers)
- Nominated as Young Scientist by Department of Science and Technology –GOI in September 2016 to draft and plan the science and technology enterprise for India in BRICS-STEP 2016 (Brazil Russia, India, China, South Africa-Science and Technology Enterprise)
- Visiting Scientist to AN Bach Institute, Russian Academy of Science, Moscow Russia from 20 May 2018-4 June 2018
- Received Young Researcher Award 2020 (Institute of Scholars) September 2020
- Received Innovative Teacher Award 2022 in Chemistry from International Multidisciplinary Research Foundation Institute of Higher Education and Research

External Evaluator and Examiner

- External Evaluator of PhD thesis of China Pharmaceutical University China 2018 (“ Meriem)
- External Practical Examiner for B.Sc (Hons) chemistry Inorganic Chemistry III Sem on 27 Nov 2018 at Jamia Millia Islamia, New Delhi.

Areas of Research Interest

- Molecularly Imprinted Polymers
- Synthesis, characterization and analytical application of Polybetaine system
- Sensors for trace level detection of target molecule, Conducting Polymers
- Optimization and calculation of physical parameters using Gaussian software

Membership of society

- Editorial board member of International Journal “**Research in Pharmacy and Health Sciences**” (Official Journal of “**Indian Academy of Pharmacists**”)
- Affiliate Member of *International Union of Pure and Applied Chemistry*
- Periodical Reviewer of Journal of Molecular Simulations, Journal of Applied Polymer Science, American Journal of Analytical Chemistry
- Life member of Nano and Molecular Society of India
- Life member of Institute of Scholars 2020 (Membership id InSc20200784)
- Reviewer of Journal of Institute of Scholars 2020
- Life member of International Multidisciplinary Research Foundation Institute of Higher Education and Research (Membership id 22014)

Techniques Known:

FTIR analyses

UV-visible spectroscopy

Fluorescence spectroscopy

Thermal Analyses

XRD analyses (powdered and Single crystal)

Scanning electron microscopy

Voltametry
DSA(Double sided Aligner)
Thermal Evaporation
GC/MS, GLC

Semiprobe measurements in Glove box
Spin Coater
Lithography
HPLC

Computational skills:

Gaussian, Amsterdam Density Functional (ADF), WinGx, Ortep, Mercury, Platon, Originlab, Chem-Draw, Sci-Lab, Adobe Photoshop

Administrative Responsibilities:

- Member of Women Cell, from January 01, 2016-July 2017 Ch Charan Singh University, Meerut
- Assistant Warden of Durga Bhabhi Girls Hostel at Ch. Charan Singh University, Meerut from 3 October 2016-30 April 2017.
- Assistant Warden of Durga Bhabhi Girls Hostel at Ch. Charan Singh University, Meerut from 27 October 2017-till date.
- Assistant Proctor of Chaudhary Charan Singh University Meerut from 12 May 2018-till date
- CCS University Admission Committee member for admission to graduation course (NEP 2020) (07/08/2021)
- Member of University NIRF data 2020 and 2022 Committee.
- Member of University NAAC data compilation 2021 Committee
- Nodal officer of Advantage Meerut from 8/2/2022 till date

Publications (54):

1. **Nazia Tarannum** and Meenakshi Singh. "Synthesis and characterization of certain organogels based on Schiff base chemistry." **J. Appl. Polym. Sci.** (2010) 118, 2821-2832. doi: 10.1002/app.32393.(InterWiley Science IF=1.4) ISSN: 1097-4628
2. **Nazia Tarannum**, Hirdyesh Mishra and Meenakshi Singh. "Synthesis, Characterization and Photoluminescence of Novel Sulfobetaine Polyelectrolytes". **J. Fluoresc.** (2011) 21, 289-297. doi: 10.1007/s10895-010-0716-z. (Springer IF=1.8) ISSN: 1573-4994
3. **Nazia Tarannum** and Meenakshi Singh. "Synthesis and swelling characteristics of responsive carboxybetaine gel." **J. Appl. Polym. Sci.** (2011) 122, 241-248. doi:10.1002/app.341. (InterWiley Science IF=1.4) ISSN: 1097-4628
4. **Nazia Tarannum** and Meenakshi Singh "Selective recognition and detection of L- aspartic acid by molecularly imprinted polymer in aqueous solution." **Am. J. Ana. Chem.** (2011) 2, 909-918 doi: 10.4236/ajac.2011. (Appeared as Journal Cover Page). (American Scientific Publisher) ISSN: 2156-8278
5. Tuhina Tiwari, **Nazia Tarannum**, Meenakshi Singh and Neelam Srivastava. "Electrical transport studies of a novel zwitterionic polymer electrolyte." full paper in the Proceedings of *4th International Conference on Electroactive Polymers: Materials & Devices*, Volume IV during 21-26 November, 2010 at Surajkund, India (MacMillan Publishing Series) ISBN: 978- 935-059-073-7

(2011)

6. Abhishek Kumar, **Nazia Tarannum** and Meenakshi Singh. "Surface Photografting of Novel Sulfobetaine Copolymers on Silica." **Material Sci. Appl.** (2012) 3, 467-477. doi:10.4236/msa.2012.37066. (American Scientific Publisher IF= 0.61) ISSN: 2153-1188
7. Lav Kumar Singh, Abhishek Kumar, **Nazia Tarannum** and Meenakshi Singh. "Chitosan-based hydrogels-synthesis, characterization and swelling behavior." Proceedings of 4th International conference on Electroactive Polymers: Materials & Devices, during 4-9 November, 2012 at BHU, Varanasi, India. ISBN: 13, 9788184242461
8. **Nazia Tarannum** and Meenakshi Singh. "Water-Compatible Surface Imprinting of 'Baclofen' on Silica Surface for Selective Recognition and Detection in Aqueous Solution". **Anal. Methods** (2012) 4, 3019-3026. doi: 10.1039/C2AY25365H. (Royal Society of Chemistry IF=1.9) ISSN: 1759-9679
9. **Nazia Tarannum** and Meenakshi Singh. "Advances in synthesis and applications of sulfo and carbo analogues of polybetaines: A review." **Rev Adv Sci & Eng.** 2 (2013) 1-22. doi:10.1166/rase.2013.1036. (American Scientific Publisher) ISSN: 2157-913X
10. Meenakshi Singh, Abhishek Kumar and **Nazia Tarannum** "Water-compatible 'aspartame' imprinted polymer grafted on silica surface for selective recognition in aqueous solution." **Anal Bioanal Chem.** 405 (12) (2013) 4245-4252 (Springer IF=3.9) ISSN: 1618-2650
11. Archana Singh, Paresh Singh, **Nazia Tarannum**, J Singh and Meenakshi Singh. "Synthesis, characterization and structural analysis of poly[N-chloranil-1-(2 aminoethyl)piperazinium dichloride]". **Nav Gavesana** 3(1) (2012) 9-16. (ISSN -0976-9455)
12. Archana Singh, Paresh Singh, **Nazia Tarannum**, J Singh and Meenakshi Singh. "Synthesis, characterization and photophysical behaviour of (2,5-bis-(tris(2-hydroxy ethyl)-ammonium-(3-6-dichlorocyclohexa-2,5-diene-1,4 diol) dichloride)". **Nav Gavesana** 3(2) (2012) 57-64. (ISSN -0976-9455)
13. Tuhina Tiwari, **Nazia Tarannum**, Maninder Kumar and Neelam Srivastava. "Ion Transport Properties of NaPF₆ & NaCl doped Poly(N phenylene N'imino pentyl) imminium propanesulfonate." **Ionics** 20 (10) (2014) 1435-1443 doi: 10.1007/s11581-014-1097-0 (Springer IF =1.67) ISSN: 0947-7047
14. Meenakshi Singh, **Nazia Tarannum** and Abhishek Kumar "Selective recognition of fenbufen by surface imprinted silica with iniferter technique." **J Porous Mater** 21 (5) (2014) 677-684 doi: 10.1007/s10934-014-9814-7 (Springer IF=1.40) ISSN: 1573-4854

15. **Nazia Tarannum** and Meenakshi Singh. “Facile eco-friendly synthesis of 3,4,6,7-tetrahydro 3,3,6,6-tetramethyl-2H-xanthene 1,8(5H,9H-dione, crystal and theoretical study.” **Crystallography Reports** 59 (7) (2014) 987-992 (Springer IF=0.50) ISSN: 1562-689X
16. Ambreesh Kumar, **Nazia Tarannum**, Ranjan K. Singh and Meenakshi Singh. “Mesalmine Targeted Water-Compatible Molecularly Imprinted Polymer-Silver Nanoparticles with Surface-Enhanced Raman Spectroscopic (SERS) and Voltammetric Detection.” **Sensor Lett** 13 (2015) 1–8. (American Scientific Publisher IF=0.60) ISSN: 1546-1971, h index- 34, Date of publication: 01 January 2016, <https://doi.org/10.1166/sl.2016.3576>
17. Rupali Rastogi, **Nazia Tarannum** and Richard Butcher. “A facile approach towards synthesis, characterization, single crystal structure and DFT study of 5-bromosalicylalcohol” **Crystallography Reports** 61(2), (2016) 234-238 (Springer IF=0.50) ISSN: 1562-689X , Date of publication: 15 April 2016, h index- 36
18. **Nazia Tarannum**, Ranu Agrawal and Rakesh Kumar Soni. “Synthesis and molecular docking of terephthalic dihydrazide from poly(ethylene terephthalate) for antimicrobial activity and biochemical changes” **Der Pharma Chemica** 8(1) (2016) 137-145 (Scholar Library IF=0.48) ISSN: 0975-413X, h index – 31 Date of publication – Jan 2016
19. Ranu Agrawal, **Nazia Tarannum**, Swapnil Mishra and Rakesh Kumar Soni. “Synthesis, Antimicrobial Activity and Molecular Modelling of Aminolysed Derivative of Poly(ethylene terephthalate)” **Der Pharma Chemica** 8(5) (2016) 132-139 (Scholar Library IF=0.48) ISSN: 0975-413X, h index- 31, <http://derpharmachemica.com/archive.html>. Date of publication – March 2016
20. **Nazia Tarannum**, M.Ayaz Ahmad, Alveera Khan, N. Sarikavakli and Alveera Khan. “Soft Computing Technique in Nano-Technology to Improve the Thermo-Mechanical properties for Aluminium-Silicon Alloy.” 4th International research and practice conference NANOTECHNOLOGY and NANOMATERIALS NANO-2016 August 24 - 27 (2016), Ivan Franko National University of Lviv, Lviv, Ukraine DOI: 10.13140/RG.2.1.4194.2647
21. Rupali Rastogi, Srasti Gupta, **Nazia Tarannum**, Ranu Agrawal and Richard Butcher. “Synthesis, Spectral Characterization and Evaluation of Antimicrobial Activity of *O,O'*-alkanediyl *S*-(*N*-phthalimidomethyl) dithiophosphates and Zinc bis(*O,O'*-alkanediyl) dithiophosphates” **Phosphorous, Sulfur, Silicon, & Related Elements** 192(3) (2017) 300-306 doi: 0.1080/10426507.2016.1237949 (Taylor & Francis IF=1.068) ISSN: 1563-5325, Date of publication: 04 March 2017, h index - 42
22. **Nazia Tarannum** and Madhu Mohan Varishetty. “Synthesis of Organic Sulfobetaine based Polymer Gel Electrolyte for Dye-Sensitized Solar Cell Application” **Polym Adv Tech** 8 (11) (2017) 1504-1509

doi:10.1002/pat.4028 (InterWiley IF=1.89) ISSN: 1099-1581, Date of publication:28 Feb 2017, h index- 82

23. Mohammad Shahnawaz Khan, Saba Parveen and **Nazia Tarannum**. "A Systematic Review on the Synthesis and Biological Activity of Hydrazone Derivatives" **Hygeia::J Drugs Med** 9(1) (2017) 61-79 (Hygeia: India) ISSN:2229-3590, DOI:10.15254/H.J.D.Med.9.2017.165 h index - Date of Publication 17 July 2017
24. **Nazia Tarannum**, Ranu Agrawal, Rani Yadav, Anjali and Rakesh Kumar Soni. "Assessment of Heavy Metal Contamination Zones of Biota of Western Uttar Pradesh Terrain, India using Atomic Absorption Spectroscopy." **Int J Env Tech Manag** 20 (1/2) (2017) 1-9 (Inderscience US) IF=0.75 ISSN: 1466-2132, <http://dx.doi.org/10.1504/IJETM.2017.086420>, Date of publication: January 2017, h index-21
25. Ranu Agrawal, **Nazia Tarannum**, Mukesh Chourasia and Rakesh Kumar Soni. "Chemical Degradation of Poly(ethylene terephthalate) for Potential Antimicrobial Activity Evaluation and Molecular Docking Study." **J Polym & Env** 26(2) (2018) 819-829 Doi:10.1007/s10924-017-0987-4 (Springer IF=1.962) ISSN: 1572-8900 Date of publication: 24 March 2017, h index -74
26. Meenu Teotia, **Nazia Tarannum**, Rakesh Kumar Soni. "Depolymerization of PET Waste for Facile Synthesis of a Series of Potentially Applicable Amides: Their Characterization, and DFT Study" **J Appl Polym Sci.** 134 (31) (2017) 4153-4163 (InterWiley Science IF=1.4) ISSN: 1097-4628, h index – 166 <https://doi.org/10.1002/app.45153>, Date of publication: 13 April 2017
27. **Nazia Tarannum**, Meenakshi Shingh and Anil Kumar Yadav. "Antibacterial activity, thermal stability and ab-initio study of copolymer containing sulfobetaine and carboxybetaine groups." **Mater Res Express** 4 (10) (2017) 105304. (IOP Science IF=1.08) ISSN: 2053-1591, Date of publication: October 2017, h index 35, https://ui.adsabs.harvard.edu/link_gateway/2017MRE.....4j5304T/doi:10.1088/2053-1591/aa8a18
28. **Nazia Tarannum**, Ranu Agrawal, Shivani Rana, Priyanka Gupta, Amit Upadhyay and Rakesh Kumar Soni. "Establishing Relationship Between Maternal Socio-demographic Characteristics and Lead in Umbilical Cord Blood Serum" **Research in Pharmacy and Health Sciences** 4 (1) (2018) 404-410 e-ISSN: 2455-5258. Date of publication: 01 December 2017, h index-
29. **Nazia Tarannum**, Mukti Verma and Moni Verma. "Synthesis and Antifungal Study of Mixed Ligand Complex of Ni(II) with Dibasic Tridentate Schiff Base as Primary and Naphthoic Acid as Co-ligand" **Asian J Chem** 30 (5) (2018) 1003-1006 DOI: 10.14233/ajchem.2018.21109 ISSN :0975-427X(IF=0.15) Date of publication: 01 May 2018, h index - 34

30. O.D. Hendrickson, I. E.A. Zvereva, A. Shanin, A.V. Zherdev, **N. Tarannum**, B.B. Dzantiev. Highly-sensitive Immunochromatographic Detection of Antibiotic Ciprofloxacin in Milk. **App Biochem Microbiology**, 54(6), 670-676 (2018) (Springer) (IF=0.886) DOI: <https://doi.org/10.1134/S000368381806008X> ISSN: 1608-3024 Date of publication: 19 December 2018, h index - 42
31. **Nazia Tarannum**, Mukti Verma, Suman Rani and Moni Verma. "Synthesis and Analysis of Stereochemical and Biological Studies of mono-nitrophenol Complexes with Benzofurathio Semicarbazide Ligand" **Asian J Chem** 30 (8) (2018) 1863-1867 ISSN :0975-427X(IF=0.15) DOI: <http://dx.doi.org/10.14233/ajchem.2018.21353> Date of publication: 01 August 2018, h index - 34
32. **Nazia Tarannum**, Rizwan Khan and Prashant Singh. "Preparation and Application of Modified Chitosan based Carbobetaine Gel System for Treatment of Acephate Contaminated Water." **Asian J Chem** 31(1) (2019) 121-127 ISSN :0975-427X (IF=0.15) DOI: <https://doi.org/10.14233/ajchem.2019.21596> Date of publication: 30 November 2018
33. **Nazia Tarannum**, Mukti Verma and Moni Verma. "Synthesis, Electronic Spectral Study and Antifungal Evaluation of Mixed Ligand Complex of Dibasic Tridentate Schiff Base and Naphthoic Acid with Transition Metal Ions" **Asian J Chem** 31 (5) (2019) 1041-1044 (IF=0.15) ISSN :0975-427X(IF=0.15) DOI: <http://dx.doi.org/10.14233/ajchem.2019.21735> Date of publication: 28 March 2019
34. Mohammad Nadeem Akhtar, Janisaar Akhtar and **Nazia Tarannum** "Physiochemical Characterization and Dematerialization of Coal Class F Flyash Residues From Thermal Power Plant" **Civil Engineering J** 5 (5) (2019) 1041-1051 ISSN: 2476-3055 (IF=1.446) DOI: <https://doi.org/10.28991/cej-2019-03091310> Date of publication: 22 May 2019
35. Meenu Teotia, **Nazia Tarannum**, Mohit Chauhan, Rakesh Kumar Soni. "Structure-based rational design, synthesis, crystal structure, DFT and molecular docking of 1,4 benzene dicarboxamide isomers with application as hardeners" **New J Chem** 43 (21)(2019) 7972-7983 ISSN:1144-0546 (Royal Society of Chemistry IF=3.5) DOI: 10.1039/C9NJ01560D Date of publication: 22 April 2019
36. **Nazia Tarannum** and Sandeep Goud "Evaluation and Pattern Recognition of PEDOT: PSS Composite Based Chemiresistor to Assess Fruit Ripeness" **Sensor Letters** 17 (2019) 516-522 (American Scientific Publisher IF=0.60) ISSN: 1546-1971 DOI: <https://doi.org/10.1166/sl.2019.4109> Date of publication: 01 July 2019
37. **Nazia Tarannum**, Ashwath Narayana, Sannaki Uday Kumar and S V Lokesh "High Performance

- Room Temperature Ethanol Detection Using OFETs Based on Polymer and Low cost SnO₂ Nanoparticles Synthesized from *Aegle Marmelos* Fruit” **Sensor Letters** 17 (2019) 581-586 (American Scientific Publisher IF=0.60) ISSN: 1546-1971 DOI: doi:10.1166/sl.2019.4113 Date of publication: 01 August 2019
38. **Nazia Tarannum**, Olga D. Hendrickson, Shahzadi Khatoon, Anatoly V. Zherdev and Boris B. Dzantiev “Molecularly Imprinted Polymers as Receptors for Assays of Antibiotics” **Critical Reviews in Anal Chem** 50 291-310 (2019) (Taylor & Francis) IF=3.217 DOI: <https://doi.org/10.1080/10408347.2019.1626697> ISSN: 1040-8347 Date of publication: 03 July 2020
39. **Nazia Tarannum** and Rizwan Khan. “Development of low cost adsorbent from recycled polyethylene terephthalate for the treatment of acephate contaminated water” **J Indian Chem Society** 96 (8) (2019) 1103-1108 (Elsevier IF=0.15) ISSN: 194522 <http://indianchemicalsociety.com/portal/uploads/journal/10%20-%20Aug%2019.pdf> Date of publication: 01 August 2019
40. **Nazia Tarannum**, Divya and Yogendra Kumar Gautam. “Facile Green Synthesis and Applications of Silver Nanoparticles: A State-of-the Art Review” **RSC Advances** 9 (2019) 9, 34926 – 34948 doi: 10.1039/c9ra04164h (RSC) IF= 3.049 ISSN: 2046-2069 Date of publication: 29 October 2019
41. **Nazia Tarannum**, Mohammad Shahnawaz Khan, Ranu Agrawal, Mohammad Ubaidullah and Imtiyaz Hassan. “Design, Synthesis and Validation of Anti-microbial derivatives: An efficient green approach” **Heliyon** 5 (10) (2019) e02615 (Elsevier IF=2.85) doi.org/10.1016/j.heliyon.2019.e02615 ISSN: 2405-8440 Date of publication: 01 October 2019
42. Mohd Ubaidullah, Jahangeer Ahmed, Abdullah M.Al-Enizi, AkshiTyagi, Shoyebmohamed F. Shaikh, **Nazia Tarannum**, Tokeer Ahmad “Metal organic precursor derived Ba_{1-x}CaxZrO₃ (0.05 ≤ x ≤ 0.20) nanoceramics for excellent capacitor applications” **J King Saud Univ** 32 (3) (2020) 1937-1943 (Elsevier) IF=3.24 doi.org/10.1016/j.jksus.2020.02.009 ISSN:2213-1558 Date of publication: 01 April 2020
43. **Nazia Tarannum**, Suhani and Deepak Kumar. “Synthesis, Characterization and Applications of Copolymer of β-Cyclodextrin : A Review” **J Polym Res** 27 (2020) 89-119 (Springer) IF=1.53 doi: 10.1007/s10965-020-02058-9 ISSN:1572-8935 Date of publication: 07 March 2020
44. **Nazia Tarannum**, Km. Pooja and Rizwan Khan. “Preparation And Applications of Hydrophobic Multicomponent Based Redispersible Polymer Powder : A Review” **Construction and Building Materials** 247 (2020) 118579 (Elsevier) IF=6.141 doi: 10.1016/j.conbuildmat.2020.118579 ISSN:0950-0618 Date of publication: 30 June 2020

45. **Nazia Tarannum**, Sandeep G. Surya, Shahzadi Khatoon, Boris B. Dzantiev, Abdellatif Ait Lahcen, An T. H. Nguyen, Khaled N Salama “A chitosan gold nanoparticles molecularly imprinted polymer based ciprofloxacin sensor” **RSC Advances** 10 (2020) 12823-12832 (RSC) IF=3.45 doi: 10.1039/d0ra01838d ISSN:2046-2069 Date of publication: 31 March 2020
46. **Nazia Tarannum**, Shahzadi Khatoon and Boris B. Dzantiev. “Perspective and application of molecular imprinting approach for antibiotic detection in food and environmental samples: A critical review” **Food Control** 118 (2020) 107381 (Elsevier) IF= 4.248 doi: 10.1016/j.foodcont.2020.107381 ISSN:0956-7135 Date of publication: 01 December 2020
47. Ashwath Narayana, **Nazia Tarannum**, Mahaboob Subhani Shaik, B.N. Shobha, Sundar Raj M, S V Lokesh. “Synthesis of SnO₂ Nanoparticles using *Ficus religiosa* Leaf Extract and their Application in Fabrication of OFETs for Glucose Monitoring.” **Adv Mater Res** 1159 (2020) 67-77 (Scientific.Net) DOI:10.1166/sl.2019.4113 ISSN: 1022-6680 Date of publication: 22 September 2020
48. **Nazia Tarannum** and Chandrasekar Thiravidamani.”Evaluation of DNA Intercalation Study and Biological Profile of a Series of Schiff base Metal(II) Complexes Derived from Amino Acid” **Inorganic and Nano-metal Chemistry** 51 (8) (2020) 1005-1016 (Taylor and Francis) IF=1.63 DOI: 10.1080/24701556.2020.1813770 ISSN: 2470-1564 Date of publication: 04 September 2020
49. Rupali Rastogi, Gokul, **Nazia Tarannum**, Swapnil Mishra, Anugya Rastogi and R.J. Butcher “Study based on docking of antimicrobial activity and fluorescence behavior of ammonium salt of diisopropyl dithiophosphate, *O,O'*-diisopropanediyl *S*-(*N*-phthalimido methyl) and zinc diisopropyl dithiophosphates” **Phosphorous, Sulphur and Silicon and the Related Elements** 196 (5) 501-512 (2020) (Taylor & Francis IF=1.068) ISSN: 1563-5325 DOI: 10.1080/10426507.2020.1860983 Date of publication: 10 December 2020
50. Mohammad Nadeem Akhtara, Zainah Ibrahima, N. Muhamad Bunnori, Mohammed Jameel, **Nazia Tarannum**, J.N. Akhtar. “Performance of sustainable sand concrete at ambient and elevated temperature” **Cons & Build Mater** 280, 122404 (2021) (Elsevier) Accepted IF=4.046 <https://doi.org/10.1016/j.conbuildmat.2021.122404> ISSN: 0950-0618 Date of publication: 19 April 2021
51. **Nazia Tarannum** and Km Pooja. “Recent trends and applications in the research and development activities of redispersible powder: a vision of twenty-first century” **Polymer Bulletin** (2021) (Springer-Nature) ISSN:1436-2449 IF=2.014 Doi: 10.1007/s00289-021-03928-y
52. **Nazia Tarannum**, Rizwan Khan, Shoiba Ansari, Ranu Aggarwal, Mohd Ubaidullah, Abdulla A.Al-Kahtani “Chemical Depolymerization of Recycled PET to Oxadiazole and Hydrazone Derivatives:

- Synthesis, Characterization, Molecular Docking and DFT study”. **Journal of King Saud University** 34 (1) 101739 (2021) (Elsevier) ISSN: 1018-3647 IF=4.011 Doi: 10.1016/j.jksus.2021
53. **Nazia Tarannum**, Deepak Kumar, Sandeep G. Surya, Pierre Dramou “Point of Care Detection Assay Based on Biomarker Imprinted Polymer For Different Cancers: A State of Art Review” **Polymer Bulletin** (2022) (Springer-Nature) ISSN:1436-2449 IF=2.014 Doi: 10.1007/s00289-022-04085-6
54. **Nazia Tarannum**, Deepak Kumar, Nitin “ β -cyclodextrin based Nanocomposite Derivatives: State of the Art in Synthesis, Characterization and Application in Molecular Recognition” **Chemistry Select** (2022) ([Wiley-VCH](#)) ISSN: 2365-6549 IF=2.109 in Press

Book/ Book Chapters Published (14):

1. **Nazia Tarannum** and Meenakshi Singh. **An applied approach to carbo and sulfo analogues of Polybetaine system.** (2013) Lambert Academic Publishing Germany. (ISBN 978-3-659-31797-2)
2. **Nazia Tarannum** and Pierre Dramou. **Molecularly Imprinted Catalysts: Synthesis and Applications.** In: “Molecularly Imprinted Polymers for Biomimetic Catalysts” (2015) Chapter 11, 225-246 Elsevier, Netherland UK (ISBN: 9780128013014) Date of publication: 30 September 2015
3. **Nazia Tarannum** and Meenu Teotia. **Renewable Energy Resources: Challenges and Advancement.** In: “Energy Conservation and Environment Protection (ECEP)” (2016) Chapter 1, 1-20 International Research Publication House, New Delhi India (ISBN: 987-93-84443-54-2) Date of publication: 13 October 2016
4. **Nazia Tarannum** and Meenakshi Singh. **Graphene Based Polymer Composites and their Receptor Specific Tailored Molecular Imprinted.** In “Advances in Multifunctional Materials” (2016) Chapter 4, 59-87, Ideal Book Publishers and Distributors, New Delhi, India (ISBN: 978-81 929869-4-4) Date of publication: 26 Feb 2016
5. **Nazia Tarannum** and Ranu Agrawal. **Bioremediation Technology as a Tool for Management of Heavy Metal Pollution.** In “Life Science: Recent Innovation and Research” (2016) Chapter 19, 383-400 International Research Publishers and Distributors, New Delhi , India (ISBN:987-93-84443-53-5) Date of publication: 14 October 2016
6. Meenakshi Singh and **Nazia Tarannum**. **“Polyzwitterions: a viable approach for drug delivery beyond pegylated materials”** Engineering of Biomaterials for drug delivery systems. 1st Edition. Beyond Polyethylene Glycol, Ed: Anil Kumar Parambath; Woodhead Publishing 2018 (Elsevier) 2018, 17-66, ISBN: 9780081017500
7. **Nazia Tarannum**, Meenakshi Singh and Ranjit Hawaldar. **“Pesticides as Occupational Hazard: facts and Figures”** In “Handbook of Research on the Adverse Effects of Pesticide Pollution in Aquatic Ecosystems” (2018) Chapter 12, IGI Global Publisher, 201-214 ISBN10: 1522561110 DOI: 10.4018/978-1-5225-6111-8
8. **Nazia Tarannum** and Ranu Agrawal. **Biophysical Chemistry (2020) Manakin Press, New Delhi.** In Press ISBN 978-9-389-29658-7
9. **Nazia Tarannum** and Mohammad Akhtar. **“Flyash As a Resource Material in Construction Industry: A Clean Approach to Environment Management”** In "Construction and Building Materials" (2018) ISBN 978-953-51-7877-4 (IntechOpen)DOI: 10.5772/intechopen.82078

10. **Nazia Tarannum** and Rizwan Khan. “**Cost effective green material for the removal of pesticides from aqueous medium**” In “Green Materials for Wastewater Treatment” (2019) Chapter 5 Springer ISBN 978-3-030-17723-2 doi: 10.1007/978-3-030-17724-9_5
11. **Nazia Tarannum** and Ranjit Hawaldar. “**Microbiology as an Occupational Hazard: Risk and Challenges**” In Medical Microbiology Book, (2021) Chapter 8, De Gruyter Publisher ISBN 978-3-11-051764-4
12. **Nazia Tarannum**, Deepak Kumar, Shahjadi Khatoon and Meenakshi Singh. “**Efficient Removal of Template as a Limitation of Molecular Imprinted Polymer**” (2021) Elsevier
13. **Nazia Tarannum**, Nikhil Kumar and Km Pooja. “**Zero waste as an approach to develop a clean and sustainable society**” in “Handbook of Smart Materials, Technologies and Devices” (2021) Springer ISBN: 978-3-030-84204-8
14. **Nazia Tarannum** and Deepak Kumar. “**Pyridine: Risk management, environment and health hazard**” Chapter 37 (2021) Elsevier

Patent Granted

Nazia Tarannum and Rizwan Khan “**AN INSTANT MIX WATER RESISTANT ADHESIVE AND A METHOD TO PREPARE THE SAME**” Application No. **201911007321** Indian Patent Filed on 25 February 2019 Published on September 2020 Patent No 376739 (Patent Granted in 2021)

Symposia/Conferences attended

1. Participated in *National Symposium on Recent Advances in Toxicological Studies Molecular and Physiological Aspects*, during 27-28 February, 2008 at Banaras Hindu University, Varanasi, India.
2. Poster Presentation on paper entitled “Synthesis, characterization and swelling property of polycarboxybetaine gel.” at *National Conference On Application of Material Science In The Service Of The Society*, during 12-13 September, 2009 at C.M.P Degree College, University of Allahabad, Allahabad, India.
3. Oral Presentation on paper entitled “Sulphobetaine and NaSCN: A new zwitterionic polymer electrolyte system.” at *8th National Conference on Solid State Ionics: Materials for Novel Devices*, during 7-9 December, 2009 at Dr. Hari Singh Gour Univ. Sagar, India.
4. Poster Presentation on paper entitled “Synthesis and application of L-aspartic acid imprinted polymer.” at *3rd National Symposium on Analytical Sciences (NSAS) on Recent Advances in Analytical Sciences*, during 12-14 April, 2010 at Himachal Pradesh Univ., Summer Hills, Shimla, India.
5. Poster Presentation of paper entitled “Synthesis, Characterization and photoluminescence study of polysulfobetaine polyelectrolyte based on Schiff base chemistry.” at *National Symposium on Emerging Trends in Chemical Sciences*, during 19-20 February, 2011 at Banaras Hindu University, Varanasi, India.
6. Poster presentation of paper entitled “Computational investigation and synthesis of a zwitterionic imprinted material for selective recognition and detection of L-aspartic acid.” at *Second International Symposium on Frontiers in Polymer Science (Elsevier)* during 29-31 May 2011, Centre de Congrès, Lyon, France.
7. Poster presentation of paper entitled “Selective Recognition and Detection of Zwitterionic Drug ‘Baclofen’ by Surface Molecular Imprinting Technique” at *Kathmandu Symposia on Advanced Materials (IUPAC)* during 9-12 May 2012, Tribhuvan University, Kathmandu, Nepal.
8. Participated in *16th CRSI National Symposium in Chemistry* during 7-9 February, 2014 at IIT Bombay, Mumbai India.
9. Participated in Workshop on *Role of Internal Quality Assurance Cell in enhancement of quality of Higher Education* on 23 March, 2015 at CCS University, Meerut, India.
10. Poster Presentation “Silver nanoparticle based water compatible molecular imprinted polymer for artificial recognition of mesalmine” at *Applied Nanoscience and Nanotechnology International Conference (PremC)* during 5-7 November 2015, Paris, France.
11. Nominated to participate and present paper “*Molecular Imprinting: A potential Approach and Dynamic Technique to meet the challenges in diagnostics*” in BRICS Young Scientist Forum (among 10 young scientists from India) at NIAS Bangalore from 26 Sept-30 Sept 2016

12. Participated and presented paper “**Development of An Artificial Biomarker For Ovarian Cancer Using Lysophosphatidic Acid Imprinted β -Cyclodextrin Polymer**” in All India Young Scientists Convention at Periyar University, Salem, Tamil Nadu India from 18-22 Dec 2017
13. Paper presentation “**Role of imprinted β -cyclodextrin based artificial biomarker**” in International Conference on Advances in Analytical Sciences at CSIR-IIP Dehradun from 15-17 March 2018.

Workshop Attended

1. Participated in *Symposium & Workshop Statistical Methods in Computational Biology* during 28-29 December, 2007 at Banaras Hindu University, Varanasi, India.
2. Participated in *BHU Summer School of Computing* during 07-19 April, 2008 at Banaras Hindu University, Varanasi, India.
3. Participated in *National Symposium – workshop on X-Ray Crystallography* during 08-09 March, 2010 at Banaras Hindu University, Varanasi, India.
4. Participated in *Workshop of Single Crystal XRD (UGC Networking Program)* during 21 November-4 December, 2010 at Hyderabad Central University, Hyderabad, A.P. India.
5. Participated in the Workshop on *Electronic Structure Calculations and Applications* during 26-27 March, 2011 at Mahila Mahavidyalaya, Physics Department, Banaras Hindu University, Varanasi, India.
6. *Certified Course (DAAD) for Preliminary German Language* from Oct 2013 to March 2014 at IIT Bombay, Powai, Mumbai, India.
7. Completed **Certified Course on “Schematic Analysis of NDPS”** organized by GFSU Gujrat India from 01 July -15 July 2014.
8. Participated in Workshop on Instrumentation Techniques in Forensic Sciences from 20 Aug-22 Aug 2014
9. Participated in the workshop on *Fundamentals of HPLC* with Lab solution workstation from 17 -18 March, 2016 at SAIP, New Delhi, India
10. Participated in Workshop on *Role of Internal Quality Assurance Cell in enhancement of quality of Higher Education* on 23 March, 2015 at CCS University, Meerut, India.
11. Participated in Workshop on *Exposure of analytical instruments to undergraduate students* on 5-6 May, 2017 at Department of Chemistry, CCS University, Meerut, India.
12. Participated in Workshop on *Radioactivity and Radioanalytical techniques* on 25-27 September 2017 at Department of Chemistry, CCS University, Meerut, India.
13. Participated in Workshop on *Leadership skills organized by ICT Academy, Chennai and CCS University Meerut* on 21 July, 2018 at CCS University, Meerut, India.
14. Participated in Workshop on *Electroanalytical Techniques* on 15-17 January, 2019 at Department of Chemistry, CCS University, Meerut, India.

Orientation/Refresher Courses

1. *Orientation Course completed at Jamia Millia Islamia University, New Delhi from 19 July-16 August, 2016.*
2. *Refresher Course completed at Jamia Millia Islamia University, New Delhi from 26 Sept-17*

October, 2018.

3. **Refresher Course completed at Ramanujan College, University of Delhi, New Delhi from 22 Jan- 05 Feb, 2022 on the topic Advanced Research Methodology**

Invited Lectures:

1. Delivered Invited Lecture entitled “**Chemical Recycling of Poly(ethylene terephthalate) to New High Value Molecule**” at Faculty Development Programme on “Municipal Solid Waste Management” on 09 Dec, 2016 at Department of Chemical Engineering, M.J.P Rohilkhand University, Bareilly, Uttar Pradesh, India
2. Delivered Keynote Invited Lecture entitled “**Ecofriendly Depolymerization of Poly(ethylene terephthalate) to Potentially Applicable Compounds**” in “National Conference on Bio-degradation of Wildlife, Environment and Biodiversity” (B-WEB-2017) 19 Mar, 2017 at Gandhi Faiz-E-Aam P.G. College, Shahjahanpur, Uttar Pradesh, India
3. Delivered Invited Lecture entitled “**Hands on ChemDraw Tools**” at “Analytical Instruments Workshop for Undergraduate Students” on 05 May, 2017 at Department of Chemistry, C.C.S University, Meerut, Uttar Pradesh, India
4. Delivered Invited Lecture entitled “**Hands on Chem-Draw Tools**” on 11 Nov, 2017 at Department of Chemistry, SSV College, Hapur, Uttar Pradesh, India sponsored by Commission for Scientific & Technical Terminology.
5. Delivered lectures in Pre PhD coursework classes from 2017 onward in CCSU Meerut
6. Delivered Keynote Invited Lecture entitled “**Molecular Imprinting : A Potential Technique to Meet the Challenges in Molecular Recognition**” on 24 May 2018 at “International Forum :Biotechnology Current State and Future Development: Life Sciences” from 23-25 May 2018, Moscow, Russia.
7. Delivered Invited Lecture entitled “**Basics in Absorption Spectroscopy UV and IR**” at Department of Chemistry, NAS Degree College, Meerut on 29 August, 2018.
8. Delivered Invited Lecture entitled “**Evaluation and Pattern Recognition of PEDOT: PSS Composite Based Chemiresistor to Assess Fruit Ripeness**” at **An International Conference on Materials for Energy Applications** on 07 Dec, 2018, SS Jain Subodh College Jaipur
9. Delivered a lecture/training entitled “**Hands on Laboratory in Synthesis and Characterization of Nanoparticles**” from 16-21 December 2019 at Department of Chemistry, Chaudhary Charan Singh University, Meerut in **One week Workshop on Introduction, Synthesis and Characterization of Nanomaterials.**

Workshop/Conferences Organized

- Worked as a Joint Secretary in organizing the Workshop on **Technology Development and Transfer to Industry- Challenges & Opportunities** Organized by Industry Consultancy Cell on 31 March, 2015 at Chaudhary Charan Singh Univ., Meerut, India.
- Workshop on Chem-Draw software was organized and conducted for M.Sc students on 20/5/15 and 20/5/2016 at Department of Chemistry, Chaudhary Charan Singh Univ., Meerut, India.
- Worked as a Co-coordinator in organizing the One Week Workshop on **Introduction, Synthesis and Characterization of Nanomaterials** organized by Centre for International Cooperation, Ch. Charan Singh University, Meerut, Uttar Pradesh, India and Central Connecticut State University, New Britain, Connecticut, USA from 16-21 Dec 2019 at Department of Physics and Chemistry, CCS University, Meerut
- Worked as Subnodal officer in organizing Science Week Festival sponsored by Vigyan Prasar,

GOI, from 22-28 February, 2022 at Chaudhary Charan Singh University, Meerut.

Projects Undergoing

- Working as a Principal Investigator in UGC-Start-Up grant project **“Lysophosphatidic acid imprinted β -cyclodextrin polymer as an artificial biomarker for ovarian cancer”** worth Rs 6,00,000/- from November 2016- November 2018
- Working as a Principal Investigator in DST-RFBR International Cooperative Collaboration with Russia **“Regularities of low molecular weight analytes detection by natural and synthetic receptors: Comparative analysis and application in the development of systems for antibiotics detection”** worth Rs 13,68,640/- from November 2017- November 2019.
- Working as a Co-Investigator and Indian Collaborator in Indo-UK Project with Ulster University, UK under **Global Challenges Research Fund (GCRF) Ulster University Pump-priming Application 2017 “Safe motherhood intervention app”** worth Rs 20,00,000/- granted in October 2017-March 2018.
- Working as Co-investigator in a project sponsored by Department of Health and Research **“Development of novel diagnostic modalities for the detection of pathogens causing urinary tract infections in young women using surface enhanced Raman spectroscopy approach”** worth Rs 45,00,000/- granted in July 2019

List of Post-graduate Students Supervised

Name	Course/ Year	Topic	Supervisor/ Co-supervisor
Rizwan Khan	M.Sc Chemistry with specialization Polymer Science Technology 2014-2016	Synthesis of co-polymer from poly(ethylene terephthalate) waste and its application as an adsorbent for pesticide contaminated water	Supervisor
Prashant Singh	M.Sc Chemistry with specialization Polymer Science Technology 2014-2016	Management of chitin waste to ecofriendly biosorbent for treatment of pesticide contaminated water	Supervisor
Shoiba Ansari	M.Sc Chemistry with specialization Polymer Science Technology 2015-2017	Synthesis and characterization of some oxadiazole and hydrazone derivatives from PET waste	Supervisor
Nivraj Kumar	M.Sc Biochemistry 2014-2016	Study of water soluble vitamin B12 by reverse phase high performance liquid chromatography	Co-Supervisor
Deepanshu Uniyal	M.Sc Biochemistry 2014-2016	Analysis of Vitamin B12 in blood serum and standard samples using high pressure liquid chromatography	Co-Supervisor
Nitin	M.Sc Chemistry with specialization Polymer Science Technology 2020-2022	Synthesis of polyurethane based polymer latex and its application in RD powder	Supervisor

List of M.Phil Students Supervised

Name	Course/Year	Topic	Supervisor/C
Divya	M.Phil Chemistry 2018-2019	Green synthesis and characterization of chitosan based silver nanocomposite and its applications.	Supervisor
Km. Pooja	M.Phil Chemistry 2018-2019	Preparation and Applications Hydrophobic Multicomponent based Redispersible Polymer Powder	Supervisor
Suhani	M.Phil Chemistry 2018-2019	Synthesis, characterization applications of copolymer of cyclodextrin	Supervisor
Anurag Panwar	M.Phil Chemistry 2018-2019	Green Synthesis of Carbon Dots and its Application	Supervisor
Rizwan Khan	M.Phil Chemistry 2019-2020	Synthesis of multicomponent polymeric latex cement composite it's application in building construction materials	Supervisor
Nitin Kumar	M.Phil Chemistry 2019-2020	Development in the synthesis of cyclodextrin based nanocomposites its application in molecular recognition	Supervisor
Rajat Kumar	M.Phil Chemistry 2019-2020	Green Synthesis and Application of Gold Nanoparticle and Carbon based Polymer Composite	Supervisor

List of Ph.D Students Supervising

Name	Course/Year	Title	Supervisor
Shahzadi Khatoun	Ph.D 2018-	Development of 3-D chitosan bead-gold nanoparticle polymer composite for the detection of antibiotics in milk samples by molecular imprinting technique	Supervisor
Deepak Kumar	Ph.D 2018-	Synthesis and characterization of molecularly imprinted β -cyclodextrin copolymer and its application in artificial biomarking of ovarian cancer	Supervisor
Km. Pooja	Ph.D 2019-	Preparation and Applications of Hydrophobic Multicomponent based Redispersible Polymer Powder	Supervisor
Rizwan Khan	PhD 2022-	Synthesis and Application of Multicomponent Roof Sealant Overlay from Polymeric Composite Recycled Paint Latex	Supervisor