CURRICULUM VITAE

Dr. Robina Begum

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SCOPUS ID: 46860900700

Web of Science Researcher ID: P-9475-2019

Academic Qualification

Degree / Certificate	University / Board	Year	Division/CGPA	Subject
PhD	PU Lahore	2019	(3.62)	Organic Chemistry
M.Phil	PU Lahore	2011	(3.79)	Organic Chemistry
M.Sc	PU Lahore	2009	(3.72)	Organic Chemistry
B.Ed	AIOU	2013	1st	General
B.Sc	PU Lahore	2007	1st	Chem., Zoo. & Bot.
F.Sc	F.B.I.S.E	2005	1st	Chem., Phys. & Bio.
Matric	F.B.I.S.E	2003	1st	Science

Research Interests

Organic –Inorganic hybrid materials for catalytic applications.

Professional Experience

- Assistant Professor at Institute of Chemistry, University of the Punjab, Lahore since 11-09-19 to till date.
- Lecturer (permanent) at Centre for Undergraduate Studies, University of the Punjab, Lahore since 22-04-13 to 10-09-19.
- Commonwealth Scholar under Split-Site PhD Program at University of Liverpool, Liverpool, UK from October 8, 2017 to October 7, 2018 (Scholar ID: PKCN-2017-226).

Research Accomplishments

Research articles in Impact Factor Journals:		54
Total Impact factor:		174.878
Total Projects received:		04
Research thesis supervision:		
	M.Phil:	06 (Completed)
	BS:	01 (Completed)
	BS:	02 (In progress)
	M.Sc:	06 (In progress)
Citation index:		
	Total citations:	1135
	h-index:	23
	i10-index:	36

List of Publications

2020

1. Zahoor H. Farooqi*, Muhammad Waseem Akram, **Robina Begum***, Weitai Wu, Ahmad Irfan "Inorganic Nanoparticles for Reduction of Hexavalent Chromium" *Journal of*

Hazardous Materials **2021**, 402, Article number: 123535, ISSN: 0304-3894, Date of publication: January15, 2021, HJRS-HEC: W, Platinum, URL: https://doi.org/10.1016/j.jhazmat.2020.123535 **(IF= 9.038)**

2. Salman Gul, Maria Saleem, Munawar Ali Munawar*, Hafiz Adnan Ahmad, Ejaz Ahmed, **Robina Begum**, Zahoor H. Farooqi* "Synthesis of novel quaternary ammonium salts from 1, 2-benzothiazine derivatives" Journal of Sulfur Chemistry **2020**, URL: https://doi.org/10.1080/17415993.2020.1797743. ISSN: 1741-5993, Date of publication: Just accepted, HJRS-HEC: X, Medallion Null, **(IF=1.963)**
3. K. Naseem, **R. Begum**, W. Wu, A. Irfan, J. Nisar, M. Azam, Z. H. Farooqi* "Core/shell composite micro particles for catalytic reduction of p-nitrophenol: kinetic and thermodynamic Study" International Journal of Environmental Science and Technology **2020** URL: https://doi.org/10.1007/s13762-020-02913-8. ISSN: 1735-1472, Date of publication: in press, HJRS-HEC: W, Medallion Bronze, **(IF=2.540)**
4. Sadia Iqbal, Chandani Zahoor, Sara Musaddiq, Murid Hussain, Robina Begum, Ahmad Irfan, Muhammad Azam, **Zahoor H. Farooqi*** "Silver nanoparticles stabilized in polymer hydrogels for catalytic degradation of azo dyes" Ecotoxicology and Environmental Safety **2020**, 202, Article Number: 110924. , URL: https://doi.org/10.1016/j.ecoenv.2020.110924 ISSN: 0147-6513, Date of publication: 01 October 2020, HJRS-HEC: W, Medallion Gold, **(IF=4.872)**
5. Zahoor H. Farooqi*, Hamadia Sultana, **Robina Begum***, Muhammad Usman, Muhammad Ajmal, Jan Nisar, Ahmad Irfan, Muhammad Azam "Catalytic degradation of malachite green using a crosslinked colloidal polymeric system loaded with silver nanoparticles" International Journal of Environmental Analytical Chemistry **2020** ISSN:

1029-0397, Date of publication: in press, URL: https://doi.org/10.1080/03067319.2020.1779247, HJRS-HEC: X, Medallion Clay, **(IF=1.431)**

6. Muhammad Shahid, Zahoor H. Farooqi*, **Robina Begum***, Muhammad Arif, Ahmad Irfan, Muhammad Azam "Extraction of cobalt ions from aqueous solution by microgels for in-situ fabrication of cobalt nanoparticles to degrade toxic dyes: A two fold-environmental application" Chemical Physics Letters **2020**, 754, Article Number: 137645, URL: https://doi.org/10.1016/j.cplett.2020.137645. ISSN: 0009-2614, Date of publication: 01 September 2020, HJRS-HEC: W, Medallion Bronze, **(IF=2.029)**
7. Khalida Naseem, **Zahoor H. Farooqi***, Robina Begum, Muhammad Zia Ur Rehman, Maida Ghufran, Weitai Wu, Jawayria Najeeb, Ahmad Irfan "Synthesis and characterization of poly(N-isopropyl methacrylamide-acrylic acid) smart polymer microgels for adsorptive extraction of copper (II) and cobalt (II) from aqueous medium: kinetic and thermodynamic aspects" *Environmental Science and Pollution Research* **2020**, 27(22), 28169-28182. URL: https://doi.org/10.1007/s11356-020-09145-w., ISSN: 0944-1344, Date of publication: Just 15 May 2020 , HJRS-HEC: W, Silver, **(IF=3.056)**
8. Zahoor H. Farooqi*, **Robina Begum***, Khalida Naseem, Weitai Wu, Ahmad Irfan "Zero Valent Iron Nanoparticles as sustainable nanocatalysts for Reduction reactions" Catalysis Reviews - Science and Engineering (CR-SE) **2020**, ISSN: 0161-4940, Date of publication: in press, HJRS-HEC: W, Medallion Silver, URL: https://doi.org/10.1080/01614940.2020.1807797 , **(IF=11.389)**
9. Khalida Naseem, **Robina Begum***, Zahoor H. Farooqi*, Weitai Wu, Ahmad Irfan, "Core-shell microgel stabilized silver nanoparticles for catalytic reduction of aryl nitro

compounds" *Applied Organometallic Chemistry* **2020**, 34, Article Number: e5742, URL: http://dx.doi.org/10.1002/aoc.5742. ISSN: 0268-2605, Date of publication: 18 May 2020, HJRS-HEC: X, Honorable Mention, URL: **(IF=3.140)**

10. Khalida Naseem, Zahoor H. Farooqi*, **Robina Begum**, Weitai Wu, Ahmad Irfan, Muhammad Ajmal "Systematic study for catalytic degradation of nitrobenzene derivatives using core@shell composite micro particles as catalyst" *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2020**, 594, Article Number: 124646., ISSN: 0927-7757, Date of publication: 05 June 2020, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1016/j.colsurfa.2020.124646 **(IF=3.990)**
11. **Robina Begum**, Jawayria Najeeb, Ayesha Sattar, Khalida Naseem, Ahmad Irfan, Abdullah G. Al-Sehemi, Zahoor H. Farooqi* "Chemical reduction of methylene blue in the presence of nano catalysts-A critical review" *Reviews in Chemical Engineering* **2020**, 36(6), 749-770., ISSN: 0167-8299, Date of publication: in press, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1515/revce-2018-0047 **(IF=5.315)**
12. Muhammad Shahid, Zahoor H. Farooqi*, **Robina Begum***, Weitai Wu, Ahmad Irfan "Hybrid microgels for catalytic and photocatalytic removal of nitroarenes and organic dyes from aqueous medium: A Review" Critical Reviews in Analytical Chemistry **2019**, ISSN: 1040-8347, Date of publication: In press, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1080/10408347.2019.1663148. **(IF=4.568)**

2019

13. **Robina Begum**, Zahoor H. Farooqi*, Ahmed H. Aboo, Ejaz Ahmed, Ahsan Sharif, Jianliang Xiao* "Reduction of nitroarenes catalyzed by microgel-stabilized Ag nanoparticles" *Journal of Hazardous Materials* **2019**, 377, 399-408. ISSN: 0304-3894,

Date of publication: 05 September 2019, HJRS-HEC: W, Platinum, URL: https://www.sciencedirect.com/science/article/pii/S0304389419306247 **(IF= 9.038)**

14. **Robina Begum**, Zahoor H. Farooqi*, Ejaz Ahmed, Ahsan Sharif, Weitai Wu, Ahmad Irfan "Fundamentals and applications of acrylamide based microgels and their hybrids: A Review" *RSC Advances* **2019**, 9(24), 13838-13854. ISSN: 2046-2069, Date of publication: 07 May 2019, HJRS-HEC: W, Bronze, URL: https://pubs.rsc.org/en/content/articlehtml/2019/ra/c9ra00699k **(IF= 3.119)**

15. Ahmed H. Aboo, **Robina Begum**, Liangliang Zhao, Zahoor H. Farooqi, Jianliang Xiao* "Methanol as Hydrogen Source: Chemoselective Transfer Hydrogenation of α,β-Unsaturated Ketones with a Rhodacycle" *Chinese Journal of Catalysis* **2019**, 40(11), 1795-1799. ISSN: 0253-9837, Date of publication: 11 November 2019, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1016/S1872-2067(19)63367-X **(IF= 6.146)**

16. Khalida Naseem, Zahoor H. Farooqi*, **Robina Begum**, Muhammad Zia Ur Rehman, Aiman Shahbaz, Umar Farooq, Muhammad Ali, Hafiz M. Abdur Rehman, Ahmad Irfan and Abdullah G. Al-sehemi "Removal of Cadmium (II) from Aqueous Medium Using *Vigna radiata* Leave Biomass: Equilibrium Isotherms, Kinetics and Thermodynamics" *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE (International Journal of Research in Physical Chemistry and Chemical Physics)* **2019**, 233(5), 669-690. ISSN: 0942-9352, Date of publication: 01 May 2019, HJRS-HEC: X, Null, URL: https://www.degruyter.com/view/j/zpch.2019.233.issue-5/zpch-2018-1223/zpch-2018-1223.xml. (Graphical figure of the paper has been selected as cover page of the issue of ZPC) **(IF=2.030)**.

17. Khalida Naseem, Rahila Huma, Aimen Shahbaz, Jawaria Jamal, Muhammad Zia Ur Rehman, Ahsan Sharif, Ejaz Ahmed, **Robina Begum**, Ahmad Irfan, Abdullah G. Al-Sehemi, Zahoor H. Farooqi* "Extraction of heavy metals from aqueous medium by husk biomass: Adsorption isotherm, kinetic and thermodynamic study" *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE (International Journal of Research in Physical Chemistry and Chemical Physics)* **2019**, 233(2), 201-223. ISSN: 0942-9352, Date of publication: 01 February 2019, HJRS-HEC: X, Null, URL: https://www.degruyter.com/view/j/zpch.2019.233.issue-2/zpch-2018-1182/zpch-2018-1182.xml (Graphical figure of the paper has been selected as cover page of the issue of ZPC). **(IF=2.030)**
18. Zahoor H. Farooqi*, Rida Khalid, **Robina Begum**, Umar Farooq, Qingshi Wu, Weitai Wu, Muhammad Ajmal, Ahmad Irfan and Khalida Naseem "Facile synthesis of silver nanoparticles in crosslinked polymeric system by in-situ reduction method for catalytic reduction of 4-nitroaniline" *Environmental Technology* **2019**, 40(15), 2027-2036. ISSN: 0959-3330, Date of publication: 03 July 2019, HJRS-HEC: X, Honorable Mentioned URL: https://www.tandfonline.com/doi/abs/10.1080/09593330.2018.1435737 **(IF=2.213)**
19. Khalida Naseem, **Robina Begum**, Weitai Wu, Muhammad Usman, Ahmad Irfan, Abdullah G. Al-Sehemi, Zahoor H. Farooqi* "Adsorptive removal of heavy metal ions using polystyrene-poly(N-isopropylmethacrylamide-acrylic acid) core/shell gel particles: Adsorption isotherms and kinetic study" *Journal of Molecular Liquids* **2019**, 277, 522-531. ISSN: 0167-7322, Date of publication: 01 March 2019, HJRS-HEC: W, Gold, URL: https://www.sciencedirect.com/science/article/abs/pii/S0167732218351109 **(IF= 5.065)**

20. Khalida Naseem, **Robina Begum**, Zahoor H. Farooqi*, Weitai Wu, Ahmad Irfan, Abdullah G.Al-Sehemi "Catalytic reduction of toxic dyes in the presence of silver nanoparticles impregnated core-shell composite microgels" *Journal of Cleaner Production*, **2019**, 211, 855-864. ISSN: 0959-6526, Date of publication: 20 February 2019, HJRS-HEC: W, Platinum, URL: https://www.sciencedirect.com/science/article/pii/S0959652618335625 **(IF=7.246)**

2018

21. **Robina Begum**, Jawayria Najeeb, Ghazia Ahmad, Weitai Wu, Ahmad Irfan, Abdullah G. Al-sehemi, Zahoor H. Farooqi* "Synthesis and characterization of poly(N-isopropylmethacrylamide-co-acrylic acid) microgels for in situ fabrication and stabilization of silver nanoparticles for catalytic reduction of o-nitroaniline in aqueous medium" Reactive and Functional Polymers **2018**, 132(1), 89-97. ISSN: 1381-5148, Date of publication: 01 November 2018, HJRS-HEC: W, Bronze, URL: https://www.sciencedirect.com/science/article/abs/pii/S1381514818305789 **(IF=3.333)**
22. Khalida Naseem, Zahoor H. Farooqi*, **Robina Begum**, Weitai Wu, Ahmad Irfan, Abdullah G. Al-Sehemi "Silver Nanoparticles Engineered Polystyrene-poly(N-isopropylmethacrylamide-acrylic acid) Core Shell Hybrid Polymer Microgels for Catalytic Reduction of Congo Red" *Macromolecular Chemistry and Physics* **2018**, 219(18), Article Number: 180021. ISSN: 1022-1352, Date of publication: 01 September 2018, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1002/macp.201800211. **(IF=2.335)**
23. Khalida Naseem, Zahoor H. Farooqi*, **Robina Begum**, Maida Ghufran, Muhammad Zia Ur Rehman, Jawayria Najeeb, Ahmad Irfan and Abdullah G. Al-Sehemi "Poly(N-

isopropylmethacrylamide-acrylic acid) microgels as adsorbent for removal of toxic dyes from aqueous medium" *Journal of Molecular Liquids* **2018**, 268, 229-238. ISSN: 0167-7322, Date of publication: 15 October 2018, HJRS-HEC: W, Gold, URL: https://www.sciencedirect.com/science/article/abs/pii/S0167732218326576 **(IF= 5.065)**

24. Sania Ashraf, **Robina Begum**, Rida Rehan, Weitai Wu, Zahoor H. Farooqi* "Synthesis and characterization of pH-responsive organic-inorganic hybrid material with excellent catalytic activity" *Journal of Inorganic and Organometallic Polymers and Materials* **2018**, 28(5), 1872-1884. ISSN: 1574-1443, Date of publication: 01 September 2018, HJRS-HEC: X, Clay, URL: https://link.springer.com/article/10.1007/s10904-018-0879-7. **(IF=1.941)**
25. Khalida Naseem, Zahoor H. Farooqi*, **Robina Begum**, and Ahmad Irfan "Removal of Congo red dye from aqueous medium by its catalytic reduction using $NaBH_4$ in the presence of various inorganic nano-catalysts: A review" *Journal of Cleaner Production*, **2018**, 187(1), 296-307. ISSN: 0959-6526, Date of publication: 20 June 2018, HJRS-HEC: W, Platinum, URL:https://www.sciencedirect.com/science/article/pii/S0959652618308801 **(IF=7.246)**
26. Khalida naseem, Zahoor H. Farooqi*, Muhammad Zia Ur Rehman, Muhammad Atiq Ur Rehman, **Robina Begum**, Rahila Huma, Aiman Shahbaz, Jawayria Najeeb and Ahmad Irfan "A systematic study for removal of heavy metals from aqueous medium using Sorghum bicolor: An efficient biosorbent" *Water Science and Technology*, **2018**, 17(10), 2355-2368. ISSN: 0273-1223, Date of publication: 01 May 2018, HJRS-HEC: X, Null, URL: https://iwaponline.com/wst/article-abstract/77/10/2355/39155. **(IF=1.638)**

27. **Robina Begum**, Zahoor H. Farooqi*, Khalida Naseem, Faisal Ali, Madeeha Batool, Jianliang Xiao and Ahmad Irfan "Applications of UV/Vis spectroscopy in characterization and catalytic activity of noble metal nanoparticles fabricated in responsive polymer microgels: A review" Critical Reviews in Analytical Chemistry **2018**, 48(6), 503-516. ISSN: 1040-8347, Date of publication: 30 March 2018, HJRS-HEC: W, Bronze, URL: https://www.tandfonline.com/doi/abs/10.1080/10408347.2018.1451299 **(IF=4.568)**

28. Muhammad Shahid, Zahoor H. Farooqi*, **Robina Begum**, Khalida Naseem, Muhammad Ajmal and Ahmad Irfan "Designed synthesis of silver nanoparticles in responsive polymeric system for their thermally tailored catalytic activity towards hydrogenation reaction" *Korean Journal of Chemical Engineering* **2018**, 35 (5), 1099-1107. ISSN: 0256-1115, Date of publication: 01 May 2018, HJRS-HEC: W, Bronze, URL: https://link.springer.com/article/10.1007/s11814-018-0016-x . **(IF=2.690)**

29. Zahoor H. Farooqi*, Aysha Ijaz, **Robina Begum**, Khalida Naseem, Muhammad Usman, Muhammad Ajmal and Usman Saeed "Synthesis and Characterization of inorganic-organic hybrid microgels for catalytic reduction of 4-nitroaniline in aqueous medium" *Polymer Composites* **2018**, 39(3), 645-653. ISSN: 0272-8397, Date of publication: 01 March 2018, HJRS-HEC: W, Bronze, URL: https://doi.org/10.1002/pc.23980. **(IF=2.265)**

30. Khalida Naseem, **Robina Begum**, Weitai Wu, Ahmad Irfan and Zahoor H. Farooqi* "Advancement in Multi-Functional Poly(styrene)-Poly(N-isopropylacrylamide) Based Core Shell Polymer Microgels and their Applications" *Polymer Reviews* **2018**, 58(2), 288-325. ISSN: 1558-3724, Date of publication: 01 February 2018 HJRS-HEC: W, Gold,

URL: https://www.tandfonline.com/doi/abs/10.1080/15583724.2017.1423326 **(IF= 7.304)**

31. **Robina Begum**, Zahoor H. Farooqi*, Zonarah Butt, Qingshi Wu, Weitai Wu and Ahmad Irfan "Engineering of responsive polymer based nano-reactors for facile mass transport and enhanced catalytic degradation of 4-nitrophenol" *Journal of Environmental Sciences* **2018**, 72(1), 43-52. ISSN: 1001-0742, Date of publication: 01 October 2018, HJRS-HEC: W, Silver, URL: https://www.sciencedirect.com/science/article/pii/S1001074217317266. **(IF= 4.302)**
32. Khalida Naseem, **Robina Begum** and Zahoor H. Farooqi* "Platinum Nanoparticles Fabricated Multi-Responsive Microgel Composites: Synthesis, Characterization and Applications" *Polymer Composites* **2018**, 39(7), 2167-2180. ISSN: 0272-8397, Date of publication: 01 July 2018, HJRS-HEC: W, Bronze, URL: https://onlinelibrary.wiley.com/doi/abs/10.1002/pc.24212 **(IF=2.265)**

2017

33. **Robina Begum**, Zahoor H. Farooqi, Ejaz Ahmed*, Khalida Naseem, Sania Ashraf, Ahsan Sharif and Rida Rehan "Catalytic Reduction of 4-Nitrophenol using silver nanoparticles engineered poly(N-isopropylacrylamide-co-acrylamide) hybrid microgels" *Applied Organometallic Chemistry* **2017**, 31(2), Article Number: e3563. ISSN: 0268-2605, Date of publication: 01February 2017, HJRS-HEC: X, Honorable Mention, URL: https://onlinelibrary.wiley.com/doi/full/10.1002/aoc.3563?casa_token=b49GIp4Y218AAAAA%3AXqGGg47PMAzRxaA635cMMnpNrkZLmOE8fGxE_8UPQiTU-tXERccgLmRw2r_YwgnF8mFSs6TjiCj4vL8 . **(IF=3.140)**

34. Zahoor H. Farooqi*, Shanza Rauf Khan and **Robina Begum** "Temperature responsive Hybrid Microgels for Catalytic Applications: A Review" *Materials Science and Technology* **2017**, 33 (2), 129-137. ISSN: 0267-0836, Date of publication: 07 April 2017, HJRS-HEC: W, Bronze, URL:https://www.tandfonline.com/doi/abs/10.1080/02670836.2016.1170396 **(IF=1.835)**

35. Khalida Naseem, **Robina Begum** and Zahoor H. Farooqi* "Catalytic Reduction of 2-nitroaniline: A Review" *Environmental Science and Pollution Research* **2017**, 24(7), 6446-6460. ISSN: 0944-1344, Date of publication: 01 March 2017, HJRS-HEC: W, Silver, URL: https://link.springer.com/article/10.1007/s11356-016-8317-2 . **(IF=3.056)**

2016

36. **Robina Begum**, Rida Rehan, Zahoor H. Farooqi*, Zonarah Butt and Sania Ashraf "Physical Chemistry of Catalytic Reduction of Nitroarenes Using Various Nano-catalytic Systems: Past, Present and Future" *Journal of Nanoparticle Research* **2016**, 18(8), Article Number: 231. ISSN: 1388-0764, Date of publication: 11 August 2016, HJRS-HEC: W, Bronze, URL:https://link.springer.com/article/10.1007/s11051-016-3536-5 **(IF=2.132)**

37. **Robina Begum**, Khalida Naseem, Zahoor H. Farooqi*, Ejaz Ahmed and Ahsan Sharif "Simultaneous catalytic reduction of nitroarenes using silver nanoparticles fabricated in poly(N-isopropylacrylamide-acrylic acid-acrylamide) microgels" *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2016**, 511 (20). 17-26. ISSN: 0927-7757, Date of publication: 20 December 2016, HJRS-HEC: W, Bronze, URL: https://www.sciencedirect.com/science/article/abs/pii/S0927775716308263 **(IF=3.990)**

38. Shanza Rauf Khan, Zahoor H. Farooqi*, Waheed-uz-Zaman, Abid Ali, **Robina Begum**, Farah Kanwal and Mohammad Siddiq "Kinetics and mechanism of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacrylamide-co-allylacetic acid) hybrid microgels" *Materials Chemistry and Physics* **2016,** 171, 318-327. ISSN: 0254-0584, Date of publication: 01 March 2016, HJRS-HEC: W, Bronze, URL: https://www.sciencedirect.com/science/article/abs/pii/S0254058416300232 **(IF=3.408)**
39. **Robina Begum**, Khalida Naseem and Zahoor H. Farooqi* "A review of responsive hybrid microgels fabricated with silver nanoparticles: synthesis, classification, characterization and applications" *Journal of Sol-Gel Science and Technology* **2016**, 77 (2), 497-515. ISSN: 0928-0707, Date of publication: 01 February 2016, HJRS-HEC: X, Honorable Mention, URL: https://link.springer.com/article/10.1007/s10971-015-3896-9, **(IF=2.008)**
40. Zahoor Hussain Farooqi*, **Robina Begum**, Khalida Naseem, Uma Rubab and Aysha Ijaz "Fabrication of silver nanoparticles in pH responsive Polymer microgel dispersion for catalytic reduction of nitrobenzene in aqueous medium" *Russian Journal of Physical Chemistry A*, **2016**, 90 (13), 2600-2608. ISSN: 0036-0244, Date of publication: 01 December 2016, HJRS-HEC: Y, Null, URL: https://link.springer.com/article/10.1134/S0036024416130239. **(IF=0.719)**
41. Zahoor H. Farooqi*, Shanza Rauf Khan, **Robina Begum** and Aysha Ijaz "Review on synthesis, properties, characterization and applications of gold nanostructures fabricated responsive microgels" *Reviews in Chemical Engineering*, **2016,** 32 (1), 49-69. ISSN: 0167-8299, Date of publication: 01 FEB 2016, HJRS-HEC: W, Bronze, URL: https://www.degruyter.com/view/j/revce.2016.32.issue-1/revce-2015-0033/revce-2015-0033.xml, **(IF= 5.315)**

42. Zahoor H. Farooqi*, Khalida Naseem, Aysha Ijaz, and **Robina Begum** "Engineering of silver nanoparticles fabricated poly (N-isopropylacrylamide-co-acrylic acid) microgels for rapid catalytic reduction of nitrobenzene" *Journal of Polymer Engineering* **2016**, 36(1), 87-96. ISSN: 0334-6447, Date of publication: 01 January 2016, HJRS-HEC: X, Clay, URL: https://www.degruyter.com/view/j/polyeng.2016.36.issue-1/polyeng-2015-0082/polyeng-2015-0082.xml, **(IF=1.126)**

43. **Robina Begum**, Zahoor H. Farooqi* and Shanza Rauf Khan "Poly(N-isopropylacrylamide-acrylic acid) copolymer microgels for various applications: A Review" *International Journal of Polymeric Materials and Polymeric Biomaterials* **2016**, 65 (16), 841-852., ISSN: 0091-4037 Date of publication:01 June 2016, HJRS-HEC: X, Clay, URL: https://www.tandfonline.com/doi/abs/10.1080/00914037.2016.1180607, **(IF=1.982)**

2015

44. Zahoor H. Farooqi*, Khalida Naseem, **Robina Begum** and Aysha Ijaz "Catalytic reduction of 2-nitroaniline in aqueous medium using silver nanoparticles functionalized polymer microgels" *Journal of Inorganic and Organometallic Polymers and Materials* **2015**, 25(6), 1554-1568., ISSN: 1574-1443, Date of publication: 01November 2015, HJRS-HEC: X, Clay, URL:https://link.springer.com/article/10.1007/s10904-015-0275-5, **(IF=1.941)**

45. Zahoor H. Farooqi*, Shanza Rauf Khan, **Robina Begum**, Farah Kanwal, Ahsan Sharif Ejaz Ahmed, Shumaila Majeed, Kiran Ijaz and Aysha Ijaz "Effect of acrylic acid feed contents of microgels on catalytic activity of silver nanoparticles fabricated hybrid microgels" *Turkish Journal of Chemistry* **2015**, 39(1), 96-107. ISSN:1300-0527, Date of

publication: 20 February 2015, HJRS-HEC: X, Null, URL: http://journals.tubitak.gov.tr/chem/abstract.htm?id=15573, **(IF=0.981)**

46. Zahoor H. Farooqi*, Zonarah Butt, **Robina Begum**, Shanza Rauf Khan, Ahsan Sharif and Ejaz Ahmed "Poly(N-isopropylacrylamide-co-methacrylic acid) microgel stabilized copper nanoparticles for catalytic reduction of nitrobenzene" *Materials Science-Poland* **2015**, 33(3), 627-634. ISSN: 2083-134X, Date of publication: 01September 2015, HJRS-HEC: X, Clay, URL: https://www.degruyter.com/downloadpdf/j/msp.2015.33.issue-3/msp-2015-0074/msp-2015-0074.pdf. **(IF=0.911)**
47. Zahoor H. Farooqi*, Naghza Tariq, **Robina Begum**, Shanza Rauf Khan, Zafar Iqbal, Abbas Khan "Fabrication of silver nanoparticles in poly (N-isopropylacrylamide-co-allylacetic acid) microgels for catalytic reduction of nitroarenes" *Turkish Journal of Chemistry* **2015**, 39(3), 576-588, ISSN: 1300-0527, Date of publication: 30 June 2015, HJRS-HEC: X, Null, URL: https://journals.tubitak.gov.tr/chem/abstract.htm?id=16328 **(IF=0.981)**
48. Zahoor H. Farooqi*, Shanza Rauf Khan, **Robina Begum**, Tajamal Hussain, Nayab Batool "Effect of crosslinking density of poly(N-isopropylacrylamide-co-acrylic acid) microgels on catalytic reduction of nitrobenzene" *Walailak Journal of Science and Technology* **2015**, 12(12), 1147-1156. ISSN: 1686-3933, Date of publication: 02 February 2015, HJRS-HEC: Y, Null, URL: http://www.thaiscience.info/Journals/Article/WJST/10974817.pdf
49. Zahoor H. Farooqi*, Tanzila Sakhawat, Shanza Rauf Khan, Farah Kanwal, **Robina Begum**, Muhammad Usman "Synthesis, characterization and fabrication of copper nanoparticles in N-isopropylacrylamide based co-polymer microgels for degradation of

p-nitrophenol" *Materials Science – Poland* **2015,** *33*(1), 185-192. ISSN: 2083-134X, Date of publication: 01 March 2015, HJRS-HEC: X, Clay, URL: https://www.degruyter.com/downloadpdf/j/msp.2015.33.issue-1/msp-2015-0025/msp-2015-0025.pdf . **(0.918)**

2015

50. Zahoor H. Farooqi*, Sadia Iqbal, Shanza Rauf Khan, Farah Kanwal and **Robina Begum** "Cobalt and Nickel nanoparticles fabricated Poly(N-isopropylacrylamide-co-Acrylic acid) Microgels for Catalytic Applications" *e-Polymers* **2014**, 14(5), 313-321. ISSN: 1618-7229, Date of publication: 01 September 2014, HJRS-HEC: X, Null, URL: https://www.degruyter.com/view/j/epoly.2014.14.issue-5/epoly-2014-0111/epoly-2014-0111.xml. **(IF=1.675)**
51. Zahoor Hussain Farooqi*, Shanza Rauf Khan, Tajamal Hussain, **Robina Begum**, Kiran Ejaz, Shumaila Majeed, Muhammad Ajmal, Farah Kanwal and Mohammad Siddiq "Effect of crosslinker feed contents on catalytic activity of silver nanoparticles fabricated in multi responsive microgels" *Korean Journal of Chemical Engineering* **2014**, 31(9), 1674-1680. ISSN: 0256-1115, Date of publication: 01 September 2014, HJRS-HEC: W, Bronze, URL: https://link.springer.com/article/10.1007/s11814-014-0117-0. **(IF=2.690)**

2012

52. Ejaz Ahmed, Ahsan Sharif, Shumaila Chohan, Misbahul Ain Khan, Munawar Ali Munawar, Aleeza Farrukh, Robina Begum, Nighat Afza, Muhammad Ashraf and Shafia Arshad, A Convenient Synthesis of Bioactive 5-Aridenebarbiturates *Journal of The Chemical Society of Pakistan*, ***2012***, 34(5), 1305-1311. ISSN: 0253-5106, Date of publication: 20 October 2012, HJRS-HEC: Y, Null, URL:

https://jcsp.org.pk/PublishedVersion/c5583ce1-803b-4536-b83d-fdccaf2c064fManuscript%20no%2044,%201st%20Gally%20proof%20of%209242%20_Ejaz%20Ahmed_.pdf **(IF=0.300)**

2011

53. Ejaz Ahmed, Ahsan Sharif, Haq Nawaz, Mukhtar-Ul-Hassan, Muhammad Azam Rasool, Khadija Nafeesa, **Robina Begum**, Muhammad Ashraf And Tariq Mahmud. Bioassay directed isolation Studies on Solanum surattense" *Journal of The Chemical Society of Pakistan***, 2011**, 33(5), 682-687., ISSN: 0253-5106, HJRS-HEC: Y, Null, URL: https://jcsp.org.pk/ArticleUpload/3534-16669-1-CE.pdf **(IF=0.300)**
54. Ahsan Sharif, Ejaz Ahmed, Munawar Ali Munawar**,** Shamsa Jabeen, Misbah-Ul-Ain Khan, **Robina Begum**, Aleeza Farrukh, Muhammad Ashraf, Shafia Arshad, Nighat Afza, Facile Syntheses of Bioactive 5-Arylidenethiobarbituric Acids" *Journal of The Chemical Society of Pakistan*, **2011**, 33(4), 578-686., ISSN: 0253-5106, HJRS-HEC: Y, Null, **(IF=0.300)**

Research papers presented in Foreign International Conferences

2020

1. **Robina Begum***, Khalida Naseem, Zahoor H. Farooqi research paper entitled "Synthesis and characterization of silver nanoparticles loaded in polymer microgels for catalytic reduction of nitro compounds in aqueous medium" to be presented as poster presentation in Reaction Mechanism in Catalysis: Faraday Discussion organized by the Royal Society of Chemistry in Burlington House, Piccadilly, London, UK on April 22-24, **2020**. (Competitive travel grant won from RSC: T20-3165)

2019

2. **Robina Begum***, Zahoor H. Farooqi, Hira Zulfiqar, Khalida Naseem Research paper entitled "Reduction of 4-nitroaniline Using Silver-Poly (N-isopropylacrylamide-co-2-hydroxyethyl methacrylate-co-acrylic acid) Hybrid Microgels Catalyst" presented as poster presentation in UK Catalysis Conference 2019 held in Loughborough organized by School of Chemical Engineering and Analytical Science, The University of Manchester, UK on January 09-11, **2019**. (Travel Grant won from HEC)
3. Zahoor H. Farooqi*, **Robina Begum**, Shumaila Batool, Khalida Naseem Research paper entitled "Reduction of Methyl Orange in Presence of Silver-Pol(N-isopropylacrylamide-2-hydroxyethylmethacrylate-acrylic acid) Hybrid microgels Catalyst" presented as oral presentation in UK Catalysis Conference 2019 to be held in Loughborough organized by School of Chemical Engineering and Analytical Science, The University of Manchester, UK on January 09-11, **2019**. (Travel Grant won from PHEC)

2018

4. Attended Royal Society of Chemistry (RSC), North West Regional Meeting held at Department of Chemistry, University of Liverpool, UK on May 15, **2018**.
5. *Zahoor H. Farooqi*, Muhmmad Waseem Akram,* ***Robina Begum*** research paper entitled "Organic-inorganic hybrid nanoparticles for catalytic application" presented as poster presentation in RSC Dalton 2018 organized by Department of Chemistry, University of Warwick, Coventry, UK on April 03-05, **2018**.

6. ***Robina Begum****, *Hamadia Sultana, Zahoor H. Farooqi* research paper entitled "Silver nanoparticles loaded polymer microgels for catalytic reduction of Malachite Green" presented as poster presentation in RSC Dalton 2018 organized by Department of Chemistry, University of Warwick, Coventry, UK on April 03-05, **2018**.
7. Attended the 2nd Romark Medicinal Chemistry Symposium featuring the BMCS Lectureship organized by Royal Society of Chemistry (Biological and Medicinal Chemistry Sector) held at Department of Chemistry, University of Liverpool, UK on March 19th, **2018**.
8. *Zahoor H. Farooqi, Anum Masud, **Robina Begum** and Khalida Naseem* research paper entitled "Systematic study of catalytic reduction of m-nitroaniline in the presence of responsive nano-hybrid catalyst" presented as poster presentation in UK Catalysis Conference 2018 organized by School of Chemical Engineering and Analytical Science, The University of Manchester, UK on January 03-05, **2018**.

2017

9. *Zahoor H. Farooqi*, Nazima Rani, Khalida Naseem and **Robina Begum*** research paper entitled "Facile fabrication of silver nano catalysts within polymer microgel particles for reduction reactions in aqueous medium" presented as poster in the 91st American Chemical Society Colloid and Surface Science Symposium hosted by The City College of New York, New York, USA on July 09-12, **2017.**
10. ***Robina Begum****, *Faisal Ali and Zahoor H. Farooqi* research paper entitled "Fabrication, characterization and catalytic activity of copper nanoparticles loaded N-isopropylmethacrylamide based colloidal particles for degradation of methylene blue" has been accepted for poster presentation in the 91st American Chemical Society Colloid and Surface Science Symposium hosted by The City College of New York, New York, USA on July 09-12, **2017**.
11. Zahoor Hussain Farooqi*, Jawayria Najeeb and **Robina Begum** Paper entitled "Silver nanoparticles fabricated N-isopropylmethacrylamide based hybrid microgels catalyst for reduction of 2-nitroaniline" published as abstract of oral presentation in abstract book of The 13th Zsigmondy colloquium of the German Colloid Society organized by Leibniz Institute for New Materials (INM) and Saarland University, Saarbrücken, Germany to be held on April 05-07, **2017**.

12. **Robina Begum***, Ghazia Ahmad and Zahoor Hussain Farooqi paper entitled "Highly stable silver nanoparticles generated in responsive multi-microgels for efficient catalytic reduction" published as abstract of poster presentation in abstract book of The 13th Zsigmondy colloquium of the German Colloid Society organized by Leibniz Institute for New Materials (INM) and Saarland University, Saarbrücken, Germany to be held on 5-7 April 05-07, **2017**.
13. Z.H. Farooqi*, J. Najeeb, **R. Begum** Paper entitled "N-isopropylmethacrylamide based hybrid microgels as highly efficient and economical catalysts for reduction reaction" published as of abstract of poster presentation in the 5th International Conference on Multifunctional, Hybrid and Nanomaterials (HYMA 2017) organized by Elsevier in Lisbon, Portugal held on March 06-10, **2017.**
14. **R. Begum***, G. Ahmed, Z.H. Farooqi, K. Naseem Paper entitled "Highly stable silver nanoparticles generated in responsive multi-microgels for efficient catalytic reduction of 4-nitroaniline" published as abstract of poster presentation in the 5th International Conference on Multifunctional, Hybrid and Nanomaterials (HYMA 2017) organized by Elsevier in Lisbon, Portugal held on March 06-10, **2017.**

2016

15. ***Robina Begum****, *Rida Rehan and Zahoor H. Farooqi* Paper entitled "Smart polymer/metal hybrid colloidal particles with thermally tunable catalytic activity" presented as poster presentation in the 3rd International Symposium on Catalysis for Clean Energy and Sustainable Chemistry (CCESC 2016) organized by AeH2, EQS and CSIC in collaboration with Institute of Catalysis and Petrochemistry, Madrid Spain held on September 07-09, **2016.**
16. *Zahoor H. Farooqi*, Sania Ashraf and* ***Robina Begum*** Paper entitled "Poly(N-isopropylnethaacrylamide-co-methacrylic acid) microgels as nano-reactors for catalytically active silver nanoparticles" presented as oral presentation in the 3rd International Symposium on Catalysis for Clean Energy and Sustainable Chemistry (CCESC 2016) organized by AeH2, EQS and CSIC in collaboration with Institute of Catalysis and Petrochemistry, Madrid Spain held on September 07-09, **2016.**

2015

17. *Zahoor H. Farooqi*, Khalida Naseem,* ***Robina Begum****, Aysha Ijaz* Paper entitled "Catalytic reduction of 2-Nitroaniline in aqueous medium using silver nanoparticles functionalized polymer microgels" presented as oral presentation in the 1st International Conference on Applied Chemistry (ICAC 2015) "Chemistry for sustainable World" organized by King Abdul Aziz University, Jeddah, Saudi Arabia held on November 18-19, **2015**.
18. ***Robina Begum*****, Aysha Ijaz, Zahoor H. Farooqi, Khalida Naseem, Usman Saeed* Paper entitled "Synthesis and Characterization of silver nanoparticles fabricated in poly(N-isopropylacrylamide-co-acrylic acid) microgels for catalytic applications" presented as oral presentation in the 1st International Conference on Applied Chemistry (ICAC 2015) "Chemistry for sustainable World" organized by King Abdul Aziz University, Jeddah, Saudi Arabia held on November 18-19, **2015**.
19. *Zahoor H. Farooqi*, Uma Rubab, Aysha Ijaz,* ***Robina Begum*** Paper entitled "Silver nanoparticles fabricated in Poly(N-isopropylacrylamide-co-Acrylic Acid) for catalytic reduction of nitrobenzene" presented as the poster presentation in the 17th international Symposium on relations between Homogenous and Heterogeneous Catalysis organized by Catalysis Centre Utrecht, Utrecht University, The Netherlands held on July 12-15, **2015.**
20. ***Robina Begum*****, Khalida Naseem, Almas Alvi, Zahoor H. Farooqi* Paper entitled "Catalytic Reduction of Nitrobenzene using Silver Nanoparticles Stabilized in Multi-Responsive Polymer Microgels" presented as the poster presentation in the 17th international Symposium on relations between Homogenous and Heterogeneous Catalysis organized by Catalysis Centre Utrecht, Utrecht University, The Netherlands held on July 12-15, **2015.**

2014

21. *Zahoor H. Farooqi*, Shanza Rauf Khan,* ***Robina Begum*** Poster entitled "Study of kinetics of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacryalmide-co-allylacetic acid) hybrid microgels" presented in the 5th EuCheMs Chemistry Congress, WOW Istanbul Convention Centre Turkey on August 31 to September 4, **2014.**

National and International Conferences/Workshops Attended at Home Country

- *Khalida Naseem, **Robina Begum**, Zahoor H. Farooqi* Paper entitled "Catalytic efficiency of P(NIPMAM) based core shell hybrid micorgels for reduction of 4-Nitroaniline" accepted for oral presentation in 28th National and 16th International Chemistry Conference on Global Challenges and Chemistry held in Department of Chemistry, Federal Urdu University for Arts, Science and Technology, Karachi, Pakistan on November 20-22, **2017**.
- *Khalida Naseem, Zahoor H. Farooqi, **Robina Begum*** Paper entitled "Reduction of o-nitroaniline in aqueous medium using silver nanoparticles fabricated hybrid microgels as catalysts" accepted for oral presentation in 1st National Science Conference (Sciences for the Betterment of Humanity) held in The Govt. Sadiq College Women University Bahawalpur held on May 4-6, **2017**.
- *Khalida Naseem, Zahoor H. Farooqi, **Robina Begum***, paper entitled "Silver nanoparticles fabricated poly(N-isopropylacrylamide-acrylic acid) hybrid microgels as efficient catalyst for reduction of nitroaromatic compounds" has been accepted for poster presentation in 1st National Science Conference (Sciences for the Betterment of Humanity) in The Govt. Sadiq College Women University, Bahawalpur held on May 04-05, **2017**.
- *Zahoor H. Farooqi*, **Robina Begum**, Khalida Naseem, Ejaz Ahmed, Ahsan Sharif* paper entitled "Organic-Inorganic hybrid nano-reactors for simultaneous reduction of nitroaromatic compounds" published as abstract of oral presentation in the 27th National and 15th International Chemistry Conference (Chemcon 2016) organized by The University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa, Pakistan held on August 22-25, **2016**.
- ***Robina Begum***, Zahoor H. Farooqi, Ejaz Ahmed, Khalida Naseem, Sania Ashraf, Ahsan Sharif, Rida Rehan* paper entitled "Silver-Poly(N-isopropylacrylamide-acrylamide) hybrid microgels for catalysis" presented as oral presentation in the 27th National and 15th International Chemistry Conference (Chemcon 2016) organized by The University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa, Pakistan to be held on August 22-25, **2016**.

- *Khalida Naseem*, Zahoor H. Farooqi,* ***Robina Begum*** paper entitled "Reduction of o-Nitroaniline in aqueous medium using silver nanoparticles loaded Poly(N-isopropylacrylamide-co-methacrylic acid) hybrid microgels as catalyst" published as abstract of oral presentation in the 27th National and 15th International Chemistry Conference (Chemcon 2016) organized by The University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa, Pakistan to be held on August 22-25, **2016**.
- *Zahoor H. Farooqi*, Khalida Naseem,* ***Robina Begum****, Aysha Ijaz* Paper entitled "Silver-Poly(N-isopropylacrylamide-co-methacrylic acid) copolymer hybrid microgels for catalytic reduction of o-Nitroaniline in aqueous medium" presented as oral presentation in the 26th national and 14th international Chemistry Conference of the Chemical Society of Pakistan organized by The Islamia University of Bahawalpur, held on October 5-8, **2015**.
- ***Robina Begum*****, Aysha Ijaz, Zahoor H. Farooqi, Khalida Naseem, Usman Saeed* Paper entitled "Catalytic Reduction of 4-Nitroaniline by Silver Nanoparticles Fabricated Poly(N-Isopropylacrylamide-co-acrylic acid) Hybrid Microgels" presented as poster presentation in the 26th national and 14th international Chemistry Conference of the Chemical Society of Pakistan organized by The Islamia University of Bahawalpur, held on October 5-8, **2015**.
- *Zahoor H. Farooqi*, Khalida Naseem,* ***Robina Begum*** Paper entitled "Simultaneous reduction of nitroarenes by silver nanoparticles fabricated Poly(*N*-isopropylacrylamide-*co*-acrylamide-*co*-acrylic acid) hybrid microgels" accepted for oral presentation in 7th Chemistry Conference 2015 on Chemistry in Engineering & Life Sciences jointly Organized by Chemistry Division, PINSTECH,UML, NCC, CPC and PIEAS held on November 24-25, **2015**.
- ***Robina Begum****, Khalida Naseem, Zahoor H. Farooqi* Paper entitled "Catalytic reduction of 2-nitroaniline in aqueous medium using Multi-responsive hybrid microgels as catalysts" accepted for oral presentation in 7th Chemistry Conference 2015 on Chemistry in Engineering & Life Sciences jointly Organized by Chemistry Division, PINSTECH,UML, NCC, CPC and PIEAS held on November 24-25, **2015**.

- Attended Computational Chemistry Workshop entitled "A new approach to understanding and solving Chemical Problems" organized by Forman Christian College (A Chartered University) held on 20-22 Jan 2016.
- Attended one day workshop on nanoscience and nanotechnology organized by Nano-Chemistry Laboratory GC University Lahore on 27-08-2015.
- Five days training on Active citizen ship program organized by British Council and HEC at Institute social and cultural studies, University of the Punjab Lahore (14-09-15 to 18-09-15).
- Participated in Conference and Training Workshop on Techniques for Biodiversity Assessment and Aerobiological Monitoring for Ecosystem Health sponsored by University of the Punjab, Lahore held in Department of Zoology, University of the Punjab, Lahore on 6th Feb-7th Feb 2015.
- *Zahoor H. Farooqi*, Shanza Rauf Khan,* ***Robina Begum*** Paper entitled "Mechanism and kinetics of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacryalmide-co-allylacetic acid) hybrid microgels" presented as oral presentation in the 25th National and 13th International Chemistry Conference organized by The Chemical Society of Pakistan and Institute of Chemistry, University of the Punjab, New Campus Lahore held on October 20-22, **2014**.
- Attended three days' work shop on CHNS held at School Of Physical Sciences, University of the Punjab Lahore from 31-03-14 to 02-04-14.
- Attended two days seminar on 3rd Invention to Innovation Summit held at University of the Punjab Lahore from 19-03-14 to 20-03-14.
- Attended One day chemistry conference "Chemical Trends" held at LUMS on 27-09-13 with the collaboration of Full Bright.

- Attended 18th National Chemistry Conference held at Institute of Chemistry, University of the Punjab, Lahore from 25-02-08 to 27-02-08.
- Attended one day workshop by Royal Chemical Society UK on Forensic Sciences held at Forman Christian College, Lahore on 24-01-2011.

Research Projects/ Grants Utilized

1. **Title of the Project:** Catalytic Conversion of Nitroarenes using Different Hybrid Microgels

   Amount: 1, 25,000 (PKR)

   Year: 2013-2014

2. **Title of the Project:** Synthesis of silver nanoparticles fabricated N-isopropylacrylamide based hybrid for catalytic applications

   Amount: 1, 25,000 (PKR)

   Year: 2014-2015

   Funded by: University of the Punjab, Lahore, Pakistan.

3. **Title of the Project:** Catalytic reduction of 4-nitroaniline using silver nanoparticles fabricated hybrid microgels

   Amount: 1, 25,000 (PKR)

   Year: 2015-2016

   Funded by: University of the Punjab, Lahore, Pakistan.

4. **Title of the Project:** Catalytic degradation of organic dyes using hybrid microgels (Approved but not availed due to being on Ex-Pakistan leave)

Amount: 1, 25,000 (PKR)

Year: 2017-2018

Funded by: University of the Punjab, Lahore, Pakistan.

List of M. Phil theses co-supervised

Serial No.	Roll No.	Name of student	Session	Title of thesis
01	52	Anam Masaud	2017-19 (Spring)	Study of catalytic activity of silver nanoparticles loaded microgels towards reduction of 3-nitroaniline in aqueous medium
02	56	Abdul Jalil	2017-19 (spring)	Silver nanoparticles loaded N-isopropylmethacrylamide based microgels for catalytic reduction of 4-nitrophenol
03	57	M. Waseem Akram	2017-19 (Spring)	Catalytic reduction of Chromium (VI) to Chromium (III) using Core- Shell polymer microgels loaded with Palladium nanoparticles
04	46	Hira Zulfiqar	2018-2020 (Fall)	Synthesis and characterization of N-vinyl caprolactam based microgels loaded with silver nanoparticles for catalytic reduction of 4-Nitroaniline **Date of enrollment: 22-10-2018**
05	58	Fatima Tahir	2018-2020 (Fall)	Catalytic reduction of 2-Nitroaniline using silver nanoparticles stabilized in poly(N-vinyl caprolactam) microgels **Date of enrollment: 22-10-2018**
06	55	Aqsa Noor	2018-2020 (Fall)	Poly(N-vinyl caprolactam) microgels loaded with metal nanoparticles for catalytic reduction of 4-nitrophenol **Date of enrollment: 22-10-2018**

Administrative Duties

- Controller Examination, Centre for Undergraduate Studies, University of the Punjab, Lahore.(From June 2015 to September 2017)
- Focal person of ORIC, Centre for Undergraduate Studies, University of the Punjab, Lahore.(19-09-2014 to 08-08-2017)
- Focal Person of Active Citizen Program launched by HEC and British Council at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Co-In charge of Tour Committee at Centre for Undergraduate Studies, University of the Punjab, Lahore.

- Member of Sports Committee at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Member of Discipline Committee at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Member of Purchase Committee at Centre for Undergraduate Studies, University of the Punjab, Lahore.

Awards and achievements

- Common wealth Scholarship awarded under Split-Site PhD Scholarship Program by UK Government for year 2017 (Reference: PKCN-2017-226) from October 2017 to October 2018.
- Performance evaluation award for the year **2017** by University of the Punjab, Lahore.
- Performance evaluation award for the year **2016** by University of the Punjab, Lahore.
- Research Incentive Award for the publications of **2015** by University of the Punjab Lahore.
- Performance evaluation award for the year **2015** by University of the Punjab.
- Research Incentive Award for the publications of **2014** by University of the Punjab Lahore.
- Performance evaluation award for the year **2014** by University of the Punjab.
- Research Incentive Award for the publications of **2013** by University of the Punjab Lahore.

- Merit Scholarship in MSc & M.Phil from Institute of Chemistry, University of the Punjab Lahore.
- Merit certificate on distinction in BSc from Garrison Education System.
- Merit certificate with distinction in Islamic quiz from Army Public College Sialkot.
- Merit certificate with distinction in Science quiz from Army public college Sialkot.
- Certificate of merit in science model competition at Apwa College Lahore.
- Merit certificate in regional Urdu story writing competition in Rawalpindi.
- Certificate of distinction in tag of war from University of the Punjab Lahore
- Merit certificate as sports co-coordinator from University of Punjab, Lahore.

Membership of Societies

- Life Member of Chemical Society of Pakistan (P-0419)
- Member of Royal Society of Chemistry (RSC), UK (654010).
- Regular Member of American Chemical Society (ACS), USA (32294869) since 28-03-2020.