

## CURRICULUM VITAE

Name **Dr. Zahoor Hussain Farooqi**  
Position Associate Professor (BPS-20)  
Researcher Identifier ORCID: <https://orcid.org/0000-0003-3200-2935>  
Web of Science Researcher ID: O-9996-2019  
Scopus Author ID: 37114071300  
Publons ID: <https://publons.com/researcher/1203151>  
Google Scholar: <https://scholar.google.com.pk/citations?user=4fTgnzQAAAAJ&hl=en&oi=ao>  
Correspondence Address Institute of Chemistry,  
University of the Punjab,  
Quaid-i-Azam Campus, Lahore-54590, Pakistan  
Nationality Pakistani  
Telephone +92-3334671067(Mob.)  
+92-42-9230463 (Off.) Ext.817  
Fax 92-42-9231269  
E-mail [zhfarooqi@gmail.com](mailto:zhfarooqi@gmail.com), [zahoor.chem@pu.edu.pk](mailto:zahoor.chem@pu.edu.pk)  
Language Urdu, English, and Punjabi

### Academic Qualification

Degree / Certificate	University / Board	Year	Division/CGPA	Subject
Ph.D.	QAU Islamabad	2013	3.4	Physical Chemistry
M.Phil.	QAU Islamabad	2008	3.4	Physical Chemistry
M.Sc.	PU Lahore	2006	1st	Physical Chemistry
B.Sc.	BZU Multan	2003	1st	Chem, Phys, Math
F.Sc.	B.I.S.E. Multan	2001	1st	Chem, Phys, Math
Matric	B.I.S.E Multan	1999	1st	Chem, Phys, Math, Bio

### PhD Thesis Title

Synthesis and Characterization of Smart Polymer Microgels for Biomedical Applications

### M.Phil Thesis Title

Association behavior of triblock copolymers of oxyethylene and oxybutylene in aqueous medium

### Professional Experience

- 2020-Till date **Associate Professor**, Institute of Chemistry, University of the Punjab, Lahore from August 25, 2020 to till date.
- **01/05/2018-06/10/2018**  
**Honorary Research Fellow**, Department of Chemistry, University of Liverpool, UK

- **2013-2020** **Assistant Professor**, Institute of Chemistry, University of the Punjab, Lahore from June 24, 2013 to August 24, 2020.
- **2013-2013** **Lecturer (permanent)** Institute of Chemistry, University of the Punjab, Lahore from April 22, 2013 to June 23, 2013.
- **2010-2013** **Lecturer (Adhoc)** Institute of Chemistry, University of the Punjab, Lahore from September 1, 2010 to April 22, 2013.
- **2009-2010** **Research Associate** Under Pakistan- US Science and Technology Cooperation Program 2007, Department of Chemistry and The Center for Engineered Polymeric Materials, College of Staten Island of the City University of New York, 2800 Victory BLVD, Staten Island, New York 10314, U. S. A from January 31, 2009 to March 04, 2010.
- **2008-2009** **Lecturer (Contract)**, Institute of Chemistry, University of the Punjab, Lahore from March, 2008 to January, 2009
- **2008-2013** **PhD Research Scholar**  
Department of Chemistry, Quaid-I-Azam University, Islamabad from June 2008 to June 2013
- **2006-2008** **M. Phil Research scholar**, Department of Chemistry, Quaid-I-Azam University, Islamabad from January 2006 to March 2008.

### Research Interests

Polymers, Colloids, Material Science and catalysis

### Research Accomplishments

Thesis supervised:	PhD	01
	M.Phil.	23
	M.Sc./B.S	41
Thesis co-supervised	M.Phil	03
Publications:		100
Books:		03
Book Chapters		01
Journal Articles		95
Total Impact Factor:		<b>281.187</b>
Citations:		1488
h-index:		24
i10-index:		47
Currently working research students:		
	PhD	04
	M.Sc/BS	10
	M.Phil	03

### Peer Reviewer for Journals

Polymer Chemistry, ACS Applied Materials and Interfaces, Chemical Communication, Macromolecular Rapid Communication, Dalton Transactions, Journal of Physical Chemistry A, Journal of Physical Chemistry C, ACS Omega, Colloids and Surfaces A: Physicochemical and Engineering Aspects, RSC Advances, New Journal of Chemistry, European Polymer Journal and many more.

### International collaborators/co-authors

Prof. Shuiqin Zhou, The City University of New York, USA

Prof. Jianliang Xiao, University of Liverpool, UK  
Prof. Weitai Wu, Xiamen University, China  
Prof. Abdullah G. Al-Sehemi and Dr. Ahmad Irfan, King Khalid University, Saudi Arabia

## **List of Publications**

### **Journal Articles**

**2020**

1. **Zahoor H. Farooqi\***, Anam Masaud, Robina Begum\*, Ahmad Irfan “Physicochemical aspects of reduction of 3-Nitroaniline using meth-acrylamide based nano-hybrid catalyst” Chemical Physics Letters **2020**, ISSN: 0009-2614, Date of publication: in press, **HJRS-HEC: W, Medallion Bronze, (IF=2.029)**
2. **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: January 15, 2021, **HJRS-HEC: W, Platinum, URL: <https://doi.org/10.1016/j.jhazmat.2020.123535> (IF= 9.038)**
3. 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: ISSN: 1741-5993, Date of publication: Just accepted, **HJRS-HEC: X, Medallion Null, (IF=1.963)**
4. 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: ISSN: 1735-1472, Date of publication: in press, **HJRS-HEC: W, Medallion Bronze, (IF=2.540)**
5. 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)**
6. **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: Just Accepted, **HJRS-HEC: X, Medallion Clay, (IF=1.431)**
7. 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)**
8. Jan Nisar\*, Abdur Rahman, Ghulam Ali, Afzal Shah, **Zahoor H. Farooqi**, Ijaz Ahmad Bhatti, Munawar Iqbal, Nafees Rahman “Pyrolysis of almond shells waste: Effect of

- zinc oxide on kinetics and product distribution” *Biomass Conversion and Biorefinery* **2020**, ISSN: 2190-6815, Date of publication: Just Accepted , **HJRS-HEC: X, Medallion Clay, (IF=2.602)**
9. Khalida Naseem, **Zahoor H. Farooqi\***, Robina Begum, Muhammad Zia Ur Rehman, Maida Ghufuran, 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)**
  10. **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: Just Accepted, **HJRS-HEC: W, Medallion Silver, URL, (IF=11.389)**
  11. 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)**
  12. Muhammad Naveed Khan\*, Noor Rehman, Ahsan Sharif\*, Ejaz Ahmed, **Zahoor H. Farooqi\***, Muhammad Imran Din, “Environmentally benign extraction of cellulose from dunchi fiber for nanocellulose fabrication” *International Journal of Biological Macromolecules* **2020**, 153, 72-78. ISSN: 0141-8130, Date of publication: 15 June 2020, **HJRS-HEC: W, Gold, URL:https://doi.org/10.1016/j.ijbiomac.2020.02.333 (IF=5.162)**
  13. 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)**
  14. Hamza Shehzad, **Zahoor H. Farooqi\***, Ejaz Ahmed, Ahsan Sharif\*, Muhammad Imran Din, Muhammad Arshad, Jan Nisar, Limin Zhou, Wang Yun, Imran Nawaz, Maroosh Hadayat, Kibrya Shahid “Fabrication of a novel hybrid biocomposite based on amino-thiocarbamate derivative of alginate/carboxymethyl chitosan/TiO<sub>2</sub> for Ni(II) recovery” *International Journal of Biological Macromolecules* **2020**, 152, 380-392., ISSN: 0141-8130, Date of publication: 01 June 2020, **HJRS-HEC: W, Gold, URL: https://doi.org/10.1016/j.ijbiomac.2020.02.259 (IF=5.162)**
  15. Hamza Shehzad, Ejaz Ahmed, Muhammad Imran Din, **Zahoor H. Farooqi\***, Muhammad Arshad, Ahsan Sharif\*, Limin Zhou, Wang Yun, Rumaisa Umer “Facile synthesis of novel carboxymethyl-chitosan/sodium alginate grafted with amino-carbamate moiety/bentonite clay composite for effective biosorption of Ni (II) from aqueous solution” *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE (International Journal of Research in Physical Chemistry and Chemical Physics)* **2020**, Date of publication: in press, ISSN: 0942-9352, **HJRS-HEC: X, Null, URL: https://doi.org/10.1515/zpch-2019-1555 (IF=2.030)**

16. Jan Nisar\*, Ghulam Ali, Afzal Shah, Muhammad Ashiq, **Zahoor H. Farooqi**, Ahsan Sharif, Ejaz Ahmed, Munawar Iqbal, Syed Tufail Hussain Sherazi, Muhammad Raza Shah "Pyrolysis of polystyrene waste for recovery of combustible hydrocarbons using copper oxide as catalyst" *Waste Management & Research* **2020**, Article Number: 0734242X20904403, Date of publication: February 2020, ISSN: 0734-242X, **HJRS-HEC: W, Bronze**, URL: <https://doi.org/10.1177%2F0734242X20904403> (**IF= 2.771**)
17. Zhenghao Zhai, Xue Du, Qingshi Wu, Lin Zhu, **Zahoor H. Farooqi**, Jin Li, Ruyue Lan, Yusong Wang, Weitai Wu\* "Tuning catalysis of boronic acids in microgels by in situ reversibly structural variations" *RSC Advances* **2020**, 10(7), 3734-3744. ISSN: 2046-2069, Date of publication: 22 January 2020, **HJRS-HEC: W, Bronze**, URL: <https://pubs.rsc.org/en/content/articlehtml/2020/ra/c9ra10541g> (**IF= 3.119**)
18. 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**)
19. Robina Begum, Jawayria Najeem, 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**)
20. Hamza Shehzad\*, Ejaz Ahmed, Ahsan Sharif, Muhammad Imran Din, **Zahoor H. Farooqi\***, Imran Nawaz, Rehana Bano, Marriam Ifikhar "Amino-carbamate moiety grafted calcium alginate hydrogel beads for effective biosorption of Ag(I) from aqueous solution: Economically-competitive recovery" *International Journal of Biological Macromolecules* **2020**, 144, 362-372, ISSN: 0141-8130, Date of publication: February 01, 2020, **HJRS-HEC: W, Gold**, URL: <https://www.sciencedirect.com/science/article/pii/S0141813019363986>. (**IF=5.162**)

## 2019

21. Naila Khalid, Ejaz Ahmed, Ahsan Sharif\*, Sumra Amanat, Faiza Arshed, Muhammad Arshad, **Zahoor Hussain Farooqi** "Isolation, Structure Elucidation and Anti-microbial potential of a New Sphingolipid from *Salvadora oleoides*" *Journal of the Chemical Society of Pakistan* **2019**, 41(5), 917-920. ISSN: 0253-5106, Date of publication: October 01, 2019, **HJRS-HEC: Y, Null**, URL: <https://jcsp.org.pk/> (**IF=0.300**)
22. Tariq Mahmood Ansari, Muhammad Ajmal\*, Sadia Saeed, Hina Naeem, Hafiz Badaruddin Ahmad, Khalid Mahmood, **Zahoor H. Farooqi** "Synthesis and characterization of magnetic poly(acrylic acid) hydrogels fabricated with cobalt nanoparticles for adsorption and catalytic applications" *Journal of the Iranian Chemical Society* **2019**, 16(12), 2765-2776. ISSN: 1735-207X, Date of publication: 01 December 2019, **HJRS-HEC: X, Null** URL: <https://link.springer.com/article/10.1007/s13738-019-01738-8> (**IF= 1.552**)
23. Zahid Shafiq, Muhammad Ajmal\*, Sonia Kiran, Sonia Zulfiqar, Ghazala Yasmeen, Muzaffar Iqbal, **Zahoor H. Farooqi**, Zaheer Ahmad, Nurettin Sahiner, Khalid Mahmood, Hafiz Badaruddin Ahmad, Ahmed Al-Harrasi "Facile synthesis of hydrogel-nickel nanoparticle composites and their applications in adsorption and catalysis" *Pure and Applied Chemistry* **2019**, 91 (10), 1567-1582, ISSN: 0033-4545, Date of

- publication: 01 October 2019 , **HJRS-HEC: W, Gold**, URL: <https://www.degruyter.com/view/j/pac.ahead-of-print/pac-2018-1201/pac-2018-1201.xml> (**IF= 1.919**)
24. 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**)
  25. 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**)
  26. Ahmed H. Aboo, Robina Begum, Liangliang Zhao, **Zahoor H. Farooqi**, Jianliang Xiao\* “Methanol as Hydrogen Source: Chemoselective Transfer Hydrogenation of  $\alpha,\beta$ -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](https://doi.org/10.1016/S1872-2067(19)63367-X) (**IF= 6.146**)
  27. Madiha Tariq, Umar Farooq\*, Makshoof Athar, M. Salman, Muqaddas Tariq, Shabnam Shahida, **Zahoor H. Farooqi** “Fluoride removal of using simple protonated and xanthate modified protonated Ficus religiosa branch powder in a fixed bed column” *Desalination and Water Treatment* **2019**, 150, 204-212. ISSN: 1944-3994, Date of publication: 01 May 2019, **HJRS-HEC: W, Bronze**, URL: [http://www.deswater.com/DWT\\_abstracts/vol\\_150/150\\_2019\\_204.pdf](http://www.deswater.com/DWT_abstracts/vol_150/150_2019_204.pdf). (**IF= 0.854**)
  28. Mehwish Sharif, Madeeha Batool\*, Sohail Chand, **Zahoor H. Farooqi**, Syed Azhar Ali Shah Tirmazi and Makshoof Athar “Forensic Discrimination Potential of blue, black, green and red colored fountain pen inks commercially used in Pakistan, by UV/Visible Spectroscopy, Thin Layer Chromatography , and Fourier Transform Infrared Spectroscopy” *International Journal of Analytical Chemistry* **2019**, Volume 2019, Article Number: 5980967, 10 pages, ISSN: 1687-8760, Date of publication: 01 January 2019, **HJRS-HEC: X, Null**, URL: <https://www.hindawi.com/journals/ijac/2019/5980967/abs/> (**IF= 1.678**)
  29. 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**).
  30. Khalida Naseem, **Zahoor H. Farooqi\***, Muhammad Zia Ur Rehman, Muhammad Atiq Ur Rehman and Maida Ghufraan “Microgels as efficient adsorbent for removal of pollutants from aqueous medium: A review” *Reviews in Chemical Engineering* **2019**, 35 (2), 285-309. ISSN: 0167-8299, Date of publication: 01 February 2019, **HJRS-HEC: W,**

Bronze, URL: <https://www.degruyter.com/view/j/revce.2019.35.issue-2/revce-2017-0042/revce-2017-0042.xml> (IF= 5.315)

31. 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)
32. **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)
33. 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)
34. 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)
35. Zhenghao Zhai, Qingshi Wu, Jin Li, Bo Zhou, Jing Shen, **Zahoor H. Farooqi**, Weitai Wu\* Enhanced catalysis of gold nanoparticles in microgels upon on-site altering the gold-polymer interface interaction” *Journal of Catalysis* **2019**, 369,462-468 ISSN: 0021-9517, Date of publication: 01 January 2019, HJRS-HEC: W, Platinum, URL: <https://www.sciencedirect.com/science/article/pii/S0021951718304287>. (IF=7.888)

**2018**

36. 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)

37. 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)**
38. Khalida Naseem, **Zahoor H. Farooqi\***, Robina Begum, Maida Ghufuran, 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)**
39. 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)**
40. Shoumin Chen, Xuezheng Lin, Zhenghao Zhai, Ruyue Lan, Jin Li, Yusong Wang, Shiming Zhou, **Zahoor H. Farooqi** and Weitai Wu\* “Synthesis and characterization of CO<sub>2</sub> sensitive poly(ionic liquid) microgels” *Polymer Chemistry* **2018**, 9 (21), 2887-2896. ISSN: 1759-9954, Date of publication: 07 June 2018, **HJRS-HEC: W, Gold**, URL: <https://pubs.rsc.org/en/content/articlelanding/2018/py/c8py00352a/unauth#!divAbstract> **(IF=5.342)**
41. Khalida Naseem, **Zahoor H. Farooqi\***, Robina Begum, and Ahmad Irfan “Removal of Congo red dye from aqueous medium by its catalytic reduction using NaBH<sub>4</sub> 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)**
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43. 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)**



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88. Luqman Ali Shah, **Zahoor Hussain Farooqi**, Hina Naeem, Syed Mujtaba Shah and Mohammad Siddiq “Synthesis and Characterization of Poly(N-isopropylacrylamide) Hybrid Microgels with different Cross-linker Contents” *Journal of the Chemical Society of Pakistan* **2013**, 35(6), 1522-1529. ISSN: 0254-5106, Date of publication: 01 December 2013, **HJRS-HEC: Y, Null**, URL: <https://www.jcsp.org.pk/VolumeIssues.aspx?IssueId=195> **(IF=0.300)**
89. **Zahoor H. Farooqi**, Abbas Khan, Muhammad Usman and Mohammad Siddiq\* “Thermodynamics of adsorption and micellization of triblock copolymers of oxyethylene and oxybutylene in aqueous medium using surface tensiometry” *Journal of Dispersion Science and Technology* **2013**, 34 (3), 400-405. ISSN: 0193-2691, Date of publication: 01 March 2013, **HJRS-HEC: X, Clay**, URL: <https://www.tandfonline.com/doi/abs/10.1080/01932691.2012.662434> **(IF=1.701)**
90. Shanza Rauf Khan, **Zahoor H. Farooqi**\*, Muhammad Ajmal, Mohammad Siddiq and Abbas Khan “Synthesis, characterization and silver nanoparticles fabrication in *N*-isopropylacrylamide based polymer microgels for rapid degradation of *p*-nitrophenol” *Journal of Dispersion Science and Technology* **2013**, 34 (10), 1324-1333. ISSN: 0193-2691, Date of publication: 03 October 2013, **HJRS-HEC: X, Clay**, URL: <https://www.tandfonline.com/doi/abs/10.1080/01932691.2012.744690> **(IF=1.701)**

## 2012

91. Abbas Khan, **Zahoor H. Farooqi** and Mohammad Siddiq\* “Associative properties of hydrophilic tip modified oxyethylene-oxybutylene diblock copolymers in aqueous media: Effect of end-group” *Journal of Applied Polymer Science* **2012**, 124(2), 951-957. ISSN: 0021-8995, Date of publication: 15 April 2012, **HJRS-HEC: W, Bronze**, URL: <https://onlinelibrary.wiley.com/doi/10.1002/app.35131> **(IF=2.520)**
92. Zaheer Ahmad, Abbas Khan, **Zahoor H. Farooqi**, Khalid Muhammad and Mohammad Siddiq\* “Interactions of ionic surfactants with PEO-PBO-PEO triblock copolymers in aqueous solutions” *Journal of Dispersion Science and Technology* **2012**, 33 (2), 191-199. ISSN: 0193-2691, Date of publication: 20 January 2012, **HJRS-HEC: X, Clay**, URL: <https://www.tandfonline.com/doi/abs/10.1080/01932691.2011.561157> **(IF=1.701)**
93. Hina Naeem, **Zahoor H. Farooqi**, Luqman Ali Shah and Mohammad Siddiq\* “Synthesis and characterization of p(NIPAM-AA-AAm) microgels for tuning of optical Properties of silver nanoparticles” *Journal of Polymer Research* **2012**, 19 (9), Article Number: 9950. ISSN: 1022-9760, Date of publication: 01 September 2012, **HJRS-HEC: X, Clay**, URL: <https://link.springer.com/article/10.1007/s10965-012-9950-1> **(IF=2.426)**

## 2011

94. **Zahoor H. Farooqi**, Weitai Wu, Shuiqin Zhou and Mohammad Siddiq\* “Engineering of phenylboronic acid based glucose-sensitive microgels with 4-vinylpyridine for working at physiological pH and temperature, *Macromolecular Chemistry and Physics* **2011**, 212(14), 1510-1514. ISSN: 1022-1352, Date of publication: 15 July 2011, **HJRS-**

HEC: W, Bronze, URL:  
<https://onlinelibrary.wiley.com/doi/abs/10.1002/macp.201000768> (IF=2.335)

95. **Zahoor H. Farooqi**, Abbas Khan and Mohammad Siddiq\* “Temperature-induced volume change and glucose sensitivity of poly[(N-isopropylacrylamide)-co-acrylamide-co-(phenylboronic acid)] microgels, *Polymer International* **2011**, 60 (10), 1481-1486. ISSN: 0959-8103 Date of publication: 01 October 2011, HJRS-HEC: W, Bronze, URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/pi.3106> (IF=2.574)

### **Book Chapter**

1. **Zahoor H. Farooqi** and Mohammad Siddiq “Microgels: Smart Polymer and Hybrid” in *Encyclopedia of Biomedical Polymers and Polymeric Biomaterials*, 1st Ed.; Mishra, M., Ed.; CRC Press Taylor & Francis Group: New York, **2015**, 7, 4701-4715. ISBN: 9781439898796, Date of publication: 02 April 2015, URL: <https://www.taylorfrancis.com/books/e/9781351237970>.

### **Books**

1. Haq Nawaz Bhatti and **Zahoor H. Farooqi**, Modern Physical Chemistry for BS and M.Sc students published by The Caravan Book House, Anarkali Lahore (September, **2013**) (This book is being taught as a text book of Physical Chemistry for M.Sc and BS classes in Pakistani Universities).
2. Haq Nawaz Bhatti and **Zahoor H. Farooqi**, Physical Chemistry Laboratory Manual for BS & M.Sc students published by The Caravan Book House, Anarkali Lahore (**2013**).
3. Haq Nawaz Bhatti and **Zahoor H. Farooqi**, Physical Chemistry Laboratory Manual for B.Sc students published by The Caravan Book House, Anarkali Lahore (**2013**).

### **Papers Accepted/Presented in International Conferences (Travel Grants won)**

#### **2020**

1. **Zahoor H. Farooqi\***, Khalida Naseem, Robina Begum paper entitled “*Thermally tunable catalysis of organic-inorganic hybrid polymer system*” has been accepted for poster presentation in Reaction Mechanism in Catalysis: Faraday Discussion organized by the Royal Society of Chemistry to be held in Burlington House, Piccadilly, London, UK on April 22-24, **2020**.

#### **2019**

2. **Zahoor H. Farooqi\***, Khalida Naseem, Robina Begum, **invited talk** entitled “Smart polymer microgels loaded with silver nanoparticles for catalytic applications” in 30<sup>th</sup> National and 18<sup>th</sup> International Chemistry Conference on Recent trends in Chemistry 2019 to be held on November 27-29, **2019** at Department of Chemistry, University of Management and Technology, Lahore.
3. **Zahoor H. Farooqi\***, Jawayria Najeeb, Robina Begum, research paper entitled “Silver nanoparticles stabilized in organic polymer microgels for catalytic applications” presented as poster presentation in Chemical Science Symposium on Functional Organic Materials organized by the Royal Society of Chemistry in Burlington House, Piccadilly, London, UK on September 24-25, **2019** (Travel grant won from PU).
4. Robina Begum\*, Haleema Asghar, **Zahoor H. Farooqi**, my research paper entitled “*Core-shell microgels functionalized with inorganic nanoparticles for catalytic reduction of 4-nitroaniline*” was presented as poster presentation in Chemical Science Symposium



on Functional Organic Materials organized by the Royal Society of Chemistry in Burlington House, Piccadilly, London, UK on September 24-25, **2019** (Travel grant won from PU).

5. 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).
6. **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** 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

7. Attended Royal Society of Chemistry (RSC), North West Regional Meeting held at Department of Chemistry, University of Liverpool, UK on May 15, **2018**.
8. **Zahoor H. Farooqi\***, *Muhammad 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** (Travel grant won from Pu).
9. *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**.
10. **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

11. **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** (Travel grant won from HEC).
12. *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** (Travel grant from PU).
13. **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 13<sup>th</sup> 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** (Travel grant won from PHEC).

- 14.** 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 13<sup>th</sup> 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** (Travel grant won from HEC).
- 15.** **Z.H. Farooqi\***, J. Najeeb, R. Begum Paper entitled “N-isopropylmethacrylamide based hybrid microgels as highly efficient and economical catalysts for reduction reaction” presented as 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** (Travel grant won from HEC).
- 16.** R. Begum\*, G. Ahmed, **Z.H. Farooqi**, Khalida Naseem Paper entitled “Highly stable silver nanoparticles generated in responsive multi-microgels for efficient catalytic reduction of 4-nitroaniline” published as 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**

- 17.** *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 3<sup>rd</sup> 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**.
- 18.** **Zahoor H. Farooqi\***, *Sania Ashraf* and *Robina Begum* Paper entitled “Poly(N-isopropylmethacrylamide-co-methacrylic acid) microgels as nano-reactors for catalytically active silver nanoparticles” presented as poster presentation in the 3<sup>rd</sup> 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** (Travel grant won from Pu).
- 19.** **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 27<sup>th</sup> National and 15<sup>th</sup> International Chemistry Conference (Chemcon 2016) organized by The University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa, Pakistan held on August 22-25, **2016**.
- 20.** *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” published as abstract of oral presentation in the 27<sup>th</sup> National and 15<sup>th</sup> 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**.

21. *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 27<sup>th</sup> National and 15<sup>th</sup> 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**.

## 2015

22. **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” published as abstract of oral presentation in 7<sup>th</sup> 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**.
23. *Robina Begum\**, *Khalida Naseem*, **Zahoor H. Farooqi** Paper entitled “Catalytic reduction of 2-nitroaniline in aqueous medium using Multi-responsive hybrid microgels as catalysts” published as abstract of oral presentation in 7<sup>th</sup> 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**.
24. **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 1<sup>st</sup> 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**(Travel grant won from HEC).
25. *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 1<sup>st</sup> 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**.
26. **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 26<sup>th</sup> national and 14<sup>th</sup> international Chemistry Conference of the Chemical Society of Pakistan organized by The Islamia University of Bahawalpur, held on October 5-8, **2015**.
27. *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 26<sup>th</sup> national and 14<sup>th</sup> international Chemistry Conference of the Chemical Society of Pakistan organized by The Islamia University of Bahawalpur, held on October 5-8, **2015**.
28. **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 17<sup>th</sup> international Symposium on relations between Homogenous and Heterogeneous Catalysis organized

by Catalysis Centre Utrecht, Utrecht University, The Netherlands held on July 12-15, **2015** (Travel grant won from Pu).

- 29.** *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 17<sup>th</sup> 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**

- 30.** **Zahoor H. Farooqi\***, *Shanza Rauf Khan*, *Robina Begum* Paper entitled “Mechanism and kinetics of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacrylamide-co-allylactic acid) hybrid microgels” presented as oral presentation in the 25<sup>th</sup> National and 13<sup>th</sup> 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**.
- 31.** *Abbas Khan\**, *Mohammad Siddiq*, **Zahoor H. Farooqi** Paper entitled “Light Scattering, Surface Tension and mT-jump stopped-flow studies on the association behavior of di- and triblock copolymers of oxyethylene and oxybutylene in aqueous medium” presented in presented as oral presentation in the 25<sup>th</sup> National and 13<sup>th</sup> 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**.
- 32.** **Zahoor H. Farooqi\***, *Shanza Rauf Khan*, *Robina Begum* Poster entitled “Study of kinetics of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacrylamide-co-allylactic acid) hybrid microgels” presented in the 5<sup>th</sup> EuChemS Chemistry Congress, WOW Istanbul Convention Centre Turkey organized by European Chemical Society on August 31 to September 4, **2014** (Travel grant won from Pu).

#### **2013**

- 33.** **Zahoor H. Farooqi\***, *Zonarah Butt*, *Muhammad Ajmal*, *Mohammad Siddiq* Paper entitled “Poly (N-isopropylacrylamide-co-Methacrylic acid) Microgel stabilized Copper Nanoparticles for Catalytic Applications” presented as oral presentation in 12<sup>th</sup> International and 24<sup>th</sup> National Chemistry Conference jointly organized by The Chemical Society of Pakistan and Institute of Chemical Sciences Bahauddin Zakariya University Multan Pakistan dated October 28-30, **2013**.
- 34.** *Farah Kanwal\**, *Sadia Iqbal*, **Zahoor H. Farooqi** Paper entitled “Cobalt and Nickel Nanoparticles Fabricated Microgels for Catalytic Applications” presented as poster presentation in 12<sup>th</sup> International and 24<sup>th</sup> National Chemistry Conference jointly organized by The Chemical Society of Pakistan and Institute of Chemical Sciences Bahauddin Zakariya University Multan Pakistan dated October 28-30, **2013**.
- 35.** **Zahoor H. Farooqi\***, *Shanza Rauf Khan*, *Kiran Ejaz*, *Shumaila Majeed*, *Tajamal Hussain*, *Farah Kanwal* Paper entitled “Modulating the Catalytic Activity of Silver Nanoparticles Fabricated Hybrid Microgels with Different Crosslinker Contents” presented in International Conference on Physical & Environmental Chemistry (ICPEC-2013) organized by National Center of Excellence in Physical Chemistry, University of Peshawar, Summer Campus, Bara Gali, District Abbotabad dated September 9-11, **2013**.
- 36.** **Zahoor H. Farooqi\***, *Mohammad Siddiq* Paper entitled “Temperature Responsive Poly(N-isopropylacrylamide-acrylamide-phenylboronic acid) Microgels for Stabilization

of Silver Nanoparticles” published as abstract of poster presentation in the 3<sup>rd</sup> International Symposium-Frontiers in Polymer Science **2013** in association with the journal “Polymer” May 20-23, 2013 Sitges (Barcelona), Spain.

## 2012

37. **Zahoor H. Farooqi\***, Abbas Khan, Mohammad Siddiq Paper entitled “Temperature responsive poly(N-isopropylacrylamide-acrylamide-phenylboronic acid) microgels for stabilization of silver nanoparticles” presented as oral presentation in the 11<sup>th</sup> International and 23<sup>rd</sup> National Chemistry Conference 2012, University of Peshawar, October 15-17, **2012**.
38. **Zahoor H. Farooqi\***, Weitai Wu, Shuiqin Zhou, Mohammad Siddiq Paper entitled “Engineering of phenylboronic acid based glucose-sensitive microgels with 4-vinylpyridine for working at physiological pH and temperature” published as abstract of poster presentation in the 14<sup>th</sup> International Union of Pure and applied Chemistry Conference on Polymers and Organic Chemistry (POC 2012) in Doha, Qatar on January 6-9, **2012**.

## 2011

39. **Zahoor H. Farooqi\***, Weitai Wu, Shuiqin Zhou, Mohammad Siddiq Paper entitled “Engineering of Phenylboronic Acid-Based Glucose-Sensitive Microgels with 4-Vinylpyridine for Working at Physiological pH and Temperature” presented as oral presentation in 10<sup>th</sup> International and 22<sup>nd</sup> National Chemistry Conference organized by Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan November 21-23, **2011**.

## Papers Presented in National Conferences

### 2018

1. **Zahoor H. Farooqi\***, Khalida Naseem, Robina Begum, Jawayria Najeeb, Numan Bhatti paper entitled “Silver nanoparticles engineered core shell smart polymer hybrid microgels for environmental applications” presented as poster presentation in 7<sup>th</sup> Invention to Innovation Summit 2018 held at University of the Punjab, New Campus Lahore, Pakistan on March 7-8, **2018**.
2. **Khalida Naseem, Zahoor H. Farooqi**, Muhammad Zia Ur Rehman, Paper entitled “Biosorptive removal of cadmium (II) ions from wastewater by agriculture biomass” was presented as oral presentation at the ICPBS-2018 Conference held in Expo Center, Lahore, Pakistan on January 23-24, **2018**.

### 2017

3. **Khalida Naseem, Zahoor H. Farooqi** Paper entitled “Catalytic efficiency of silver nanoparticles engineered P(NIPMAM-Ac) based hybrid microgels for reduction of nitroarenes” presented as poster presentation in One day International Conference on recent challenges and Chemical Sciences held in Bahauddin Zakariya University (BZU), Multan, Pakistan on December 22, **2017**.
4. **Khalida Naseem, Zahoor H. Farooqi, Robina Begum** Paper entitled “Catalytic efficiency of P(NIPMAM) based core shell hybrid micorgels for reduction of 4-Nitroaniline” accepted for oral presentation in 28<sup>th</sup> National and 16<sup>th</sup> 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**.

5. *Khalida Naseem, Zahoor H. Farooqi* 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**.
6. *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 being held on May 04-05, **2017**.

#### 2014

7. **Zahoor H. Farooqi** Participation in the exhibition on “Technologies Having Potential for Commercialization” on 3<sup>rd</sup> Invention to Innovation Summit 2014 held on March 19-20, **2014** at University of the Punjab, Lahore.

#### 2011

8. **Zahoor H. Farooqi\***, Abbas Khan, Mohammad Siddiq Paper entitled “Synthesis and Characterization of Smart Polymer Microgels for Biomedical Applications” presented as oral presentation in National Symposium on Kinetics & Catalysis (KC-2011) organized by National Centre of Excellence in Physical Chemistry, University of Peshawar Summer Campus Baragali, Distt. Abbotabad 26th-28th September **2011**.
9. Abbas Khan\*, **Zahoor H. Farooqi**, Mohammad Siddiq “The Kinetics of Aggregation Behaviour of Oxyethylene-Oxybutylene Diblock Copolymers in Water by Using mT-jump Stopped-Flow Technique” presented as oral presentation in National Symposium on Kinetics & Catalysis (KC-2011) organized by National Centre of Excellence in Physical Chemistry, University of Peshawar Summer Campus Baragali, Distt. Abbotabad 26th-28th September **2011**.

#### 2010

10. **Zahoor H. Farooqi\***, Abbas Khan, Mohammad Siddiq Paper entitled “Temperature-induced volume change and glucose sensitivity of poly[(N-isopropylacrylamide)-co-acrylamide-co-(phenylboronic acid)] microgels” presented as oral presentation in First National Conference on Physical & Environmental Chemistry (PEC-2010) organized by National Center of Excellence in Physical Chemistry, University of Peshawar, Summer Campus, Bara Gali, District Abbottabad dated 26<sup>th</sup>-30<sup>th</sup> September, **2010**.

#### 2009

11. *Mohammad Siddiq\**, **Zahoor H. Farooqi**, *Muhammad Usman, Abbas Khan* Paper entitled “Association behavior of triblock copolymer E<sub>20</sub>B<sub>10</sub>E<sub>20</sub> in aqueous medium” presented as oral presentation in 19<sup>th</sup> National Chemistry Conference held in Department of Chemistry, Kohat University of Science and Technology, Kohat from June 9 to June 11, **2009**.

#### 2008

12. **Zahoor H. Farooqi**, *Mohammad Siddiq, Muhammad Usman, Abbas Khan* Paper entitled “Association behavior of triblock copolymers of oxyethylene and oxybutylene in aqueous medium” presented as oral presentation in 18<sup>th</sup> National Chemistry Conference held in February 25-27, **2008** at Institute of Chemistry, University of the Punjab, Lahore.

### International Conferences organized

1. Worked as organizer, member Food Committee, Member Press and Publication and Member Fund Raising Committee in 25<sup>th</sup> National and 13<sup>th</sup> 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**.

### Workshops attended

- Attended one day workshop on nanoscience and nanotechnology organized by Nano-Chemistry Laboratory GC University Lahore on 27-08-**2015**.

### Awards and achievements

1. The Chemical Society of Pakistan award of highest accumulative impact factor of publications in 2018 was awarded in the opening ceremony of the annual meeting of the chemical society of Pakistan which is scheduled held at UMT Lahore on November 27, **2019**.
2. Technology award won on 7<sup>th</sup> Invention to Innovation Summit **2018** organized by ORIC, University of the Punjab, Lahore, Pakistan on March 7-8, **2018** in collaboration with many public and private institutions.
3. PCST research productivity award **2017-2018** won for research contribution in **2016** (Sr. No33, Sci-ID: 109, Grand Score: 11.98, Category: D). Ranked on position 54 in under 40 scientists and 160 in overall in chemical Sciences in Pakistan according to Directory of Productive Scientists of Pakistan 2017 published by PCST.
4. Research Incentive Award for the publications of **2017** by University of the Punjab Lahore.
5. Performance evaluation award for the year **2017** by University of the Punjab, Lahore.
6. Performance Evaluation Award **2016** by University of the Punjab, Lahore.
7. Research Incentive Award for the publications of **2015** by University of the Punjab Lahore (**78,750** vide letter No. D/1558/Est.I dated 05/05/2017).
8. Performance Evaluation Award **2015** by University of the Punjab, Lahore.
9. Research Incentive Award for the publications of **2014** by University of the Punjab Lahore.
10. Performance Evaluation Award **2014** by University of the Punjab, Lahore.
11. Research Incentive Award for the publications of **2013** by University of the Punjab Lahore (**Rs. 51833**).
12. Research Incentive Award for the publications of **2012** by University of the Punjab Lahore.
13. First prize winner in poster presentation in 10<sup>th</sup> International and 22<sup>nd</sup> National Chemistry Conference organized by Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan November 21-23, **2011**.
14. Research Incentive Award for the publications of **2011** by University of the Punjab Lahore (**Rs. 79166**).
15. Best debater of the college award winner of Government College Khanewal during 1999-2003.
16. First, 2<sup>nd</sup> and 3<sup>rd</sup> position winner in debate competitions at division and provincial level.

### University Projects/ Grants Utilized

1. **Title of the Project:** Microgels stabilized metal nanoparticles for catalysis  
**Amount:** 150, 000 (PKR)  
**Year:** 2019-2020  
**Funded by:** University of the Punjab, Lahore, Pakistan (No. D/503/Est. I)  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** In Progress
2. **Title of the Project:** Synthesis of metal nanoparticles in Core-Shell microgels and their use in catalysis  
**Amount:** 150, 000 (PKR)  
**Year:** 2017-2018  
**Funded by:** University of the Punjab, Lahore, Pakistan (No. D/4112/Est. I dated 13-09-2017)  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** completed
3. **Title of the Project:** Synthesis of hybrid microgel Ag(N-isopropylmethacrylamide-co-acrylic acid) and its use in reduction of Nitrophenol  
**Amount:** 1,50,000 (PKR)  
**Year:** 2015-2016  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed
4. **Title of the Project:** Catalytic reduction of 4-nitroaniline using silver nanoparticles fabricated hybrid microgels  
**Amount:** 1,50,000 (PKR)  
**Year:** 2014-2015  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed
5. **Title of the Project:** Modulating Catalytic Activity of Hybrid Microgels Possessing Different Contents of Acidic Monomer(in the process of completion)  
**Amount:** 1,50,000 (PKR)  
**Year:** 2013-2014  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed
6. **Title of the Project:** Synthesis and Characterization of Microgels Supported Catalysts for Environmental Applications  
**Amount:** 1,25,000 (PKR)  
**Year:** 2012-2013  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed



**7. Title of the Project:** Synthesis and Characterization of Glucose Responsive Polymer Hydrogels

**Amount:** 1,25,000 (PKR)  
**Year:** 2011-2012  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed

**8. Title of the Project:** Smart Polymer Microgels for biomedical and nano-technological Applications

**Amount:** 1, 25, 000 (PKR)  
**Year:** 2010-2011  
**Funded by:** University of the Punjab, Lahore, Pakistan  
**Place:** Institute of Chemistry, University of the Punjab, Lahore  
**Status:** Completed

**HEC Funded Research Projects**

1. Project entitled “Synthesis and characterization of inorganic nanoparticles in smart polymer microgels for catalytic applications” with funding of Rs. 354000 sponsored by Higher Education Commission Pakistan under Pakistan Program for Collaborative Research (No.22-3/HEC/R&D/PPCR/2018 dated March 19, 2018) won for a short visit (from 01-05-2018 to 01-06-2018) to University of Liverpool, UK.
2. Project entitled “Synthesis, Characterization and Catalytic Applications of Metal Nanoparticles Fabricated in Smart Polymer microgels” with funding of Rs.3899034 sponsored by Higher Education Commission Pakistan under NRPU (No.20-3995/NRPU/R&D/HEC/14/1212) is in progress.

**List of PhD Theses Supervised/in Progress**

Serial No.	Roll No.	Name of student	Session	Title of thesis
1	20	Muhammad Shahid	2013-19	N-isopropylacrylamide Based Hybrid Microgels for Catalytic Degradation of Toxic Chemicals in Aqueous Medium ( <b>in progress</b> )
2	24	Khalida Naseem	2015-19	Synthesis and characterization of multifunctional inorganic-organic hybrid microgels for catalytic applications ( <b>Completed</b> )
3	11	Iftikhar Hussain	2015-19	Synthesis, characterization and catalytic applications of nanocatalysts ( <b>in progress</b> )
4	09	Muhammad Arif	2017-22	Synthesis, characterization and applications of metal nanoparticles fabricated in microgels ( <b>in progress</b> )

**List of M. Phil theses 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	53	Muhammad Amir	2017-19 (Fall)	Synthesis of Palladium Nanoparticles loaded core-shell Hybrid Microgels and their Application for Catalytic Reduction of 4-Nitrophenol
05	55	Khadija Chaudhary	2017-19 (Fall)	Rhodium nanoparticles loaded core-shell hybrid microgels for catalytic reduction of congo red dye
06	45	Javeria Tariq	2016-18 (Spring)	Synthesis and characterization of Core-shell hybrid polymer microgels for catalytic reduction of nitrobenzene
07	47	Haleema Asghar	2016-18 (Spring)	Core shell hybrid microgels for catalytic reduction of 4-nitroaniline
08	53	Saddiqa Bibi	2016-18 (Spring)	Silver nanoparticles fabricated polystyrene based core shell hybrid microgels for catalytic reduction of 2-nitroaniline
09	60	Mazia Nasir	2016-18	Synthesis of silver nanoparticles fabricated in core-shell microgels and their catalytic application in reduction of 2-nitrophenol
10	51	Jawayria Najeeb	2016-18	Silver nanoparticles fabricated in core-shell microgels as effective nanocatalyst for catalytic reduction of 2-nitroaniline
11	37	Ayesha Sattar	2015-2017 (Spring)	In situ synthesis of silver nanoparticles within poly(N-isopropylacrylamide-co-acrylic acid) microgels and their catalytic application for reduction of methyl orange dye in aqueous medium
12	39	Afsheen	2015-2017 (Spring)	Synthesis and characterization of smart polymer hybrid microgels for catalytic degradation of Rhodamine B
13	40	Hamadia Sultana	2015-2017 (Spring)	Catalytic degradation of Malachite Green using silver nanoparticles fabricated hybrid polymer microgels
14	43	Muhammad Sadaf Hussain	2015-17	Synthesis and characterization of hybrid microgels for catalytic degradation of Rhodamine B in aqueous medium
15	46	Faisal Ali	2015-17	Silver-poly(N-isopropylmethacrylamide-co-acrylic acid-co-2-hydroxyethylacrylate) hybrid microgels for catalytic degradation of Congo Red and Methylene Blue dyes in aqueous medium
16	28	Nazima Rani	2014-16 (spring)	synthesis of silver-poly(N-isopropylmethacrylamide-co-acrylic acid) hybrid microgels and their use as microreactor for the reduction of 4-nitroaniline
17	30	Rida Rehan	2014-16	Synthesis and Characterization of microgel stabilized silver nanoparticles for optical sensing and catalytic applications
18	29	Sania Ashraf	2014-16	Synthesis of silver-poly (N-isopropylmethacrylamide-methacrylic acid) hybrid microgels and their application in the field of Catalysis
19	26	Zonarah Butt	2013-15 (spring)	Fabrication and Stabilization of Silver Nanoparticles in poly(N-isopropylacrylamide-2-Hydroxyethyl methacrylate-Acrylic Acid) microgels for Catalytic Reduction of 4-Nitrophenol
20	26	Khalida Naseem	2013-15	Catalytic reduction of 2-Nitroaniline in aqueous medium using silver nanoparticles functionalized copolymer microgels
21	27	Aysha Ijaz	2013-15	Silver Nanoparticles embedded poly(N-isopropylacrylamide-co-acrylic Acid) hybrid microgels for catalytic reduction of 4-Nitroaniline
22	24	Naghza Tariq	2012-14	Fabrication of silver nanoparticles in poly(N-isopropylacrylamide-co-allylacetic acid) microgels for catalytic reduction of nitroarenes
23	26	Shanza Rauf Khan	2012-14	Kinetics and mechanism of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacrylamide-co-allyl acetic acid ) hybrid microgels.

### List of M. Phil Theses Co-Supervised

Serial No.	Roll No.	Name of student	Session	Title of thesis
1	27	Sadia Iqbal	2011-13	Cobalt and nickel nanoparticles fabricated microgels for catalytic applications
2	28	Tanzila Sakhawat	2011-13	Silver nanoparticles fabricated N-isopropylacrylamide microgels for catalytic applications
3	05	Ghulam Mustafa	2010-12	Kinetic study of reduction of p-nitrophenol using silver nanoparticles based hybrid microgels as catalyst

### M.Sc/ BS theses supervised

Serial No.	Roll No.	Name of student	Program of study	Session	Title of thesis
1	04	Rashida Mukhtar	BS	2016-20	Palladium Nanoparticles Stabilized in Polymeric Systems
2	44	Sajid Wazir	BS	2016-20	Fabrication of Palladium Nanoparticles in Poly(N-isopropylmethacrylamide) Microgels for Catalytic Reduction of 4-Nitroaniline
3	55	Faiza Aslam	BS	2015-19	Catalytic degradation of Congo red by silver nanoparticles fabricated poly(styrene-N-isopropylmethacrylamide) core-shell hybrid microgels
4	38	Humna Mushtaq	BS	2015-19	Synthesis of silver nanoparticles fabricated polystyrene based hybrid microgels catalysts and their applications for reduction of Rhodamine B.
5	21	Nimra Zawar	BS	2015-19	Silver nanoparticles fabricated polystyrene-poly(N-isopropylmethacrylamide) core-shell microgels catalysts and their applications for reduction of methyl orange in aqueous medium
6	036806	Maria Naz	M.Sc	2017-19	Systematic study of reduction of brilliant blue dye in the presence of responsive core shell hybrid microgels catalyst.
7	036809	Maryam Fatima	M.Sc	2017-19	Silver nanoparticles loaded polystyrene-poly(N-isopropylmethacrylamide) core shell hybrid microgel catalyst for reduction of 4-Nitrophenol
8	036846	Rabia Ijaz	M.Sc	2017-19	Reduction of 4-Nitroaniline using silver-polystyrene-poly(N-isopropylmethacrylamide) hybrid microgels as catalyst

9	036863	Amina Bibi	M.Sc	2017-19	Reduction of 2-Nitroaniline using polystyrene based core shell responsive hybrid microgels catalyst
10	38	Hira Zulfiqar	BS	2014-18	Synthesis of silver nanoparticles fabricated in poly(N-isopropylacrylamide-2-hydroxyethylmethacrylate-acrylic acid) microgels catalyst and their catalytic application in reduction of 4-nitroaniline
11	14	Fatima-Tul-Zohra	BS	2014-18	Catalytic degradation of Rhodamine B using silver nanoparticles fabricated N-isopropylacrylamide based hybrid microgels
12	58	Shumaila Batool	BS	2014-18	Synthesis of silver nanoparticles fabricated in poly(N-isopropylacrylamide-2-hydroxyethylmetacryate-Acrylic acid) microgels catalysts and their catalytic application for reduction of methyl orange dye in aqueous medium
13	041538	Kinza Rubab	M.Sc	2016-18	Catalytic reduction of 3-Nitroaniline by silver nanoparticles fabricated in poly(N-isopropylacrylamide-co-2-hydroxyethylmethacrylate-co-acrylic acid) core-shell microgels system
14	041656	Numan Rafiq	M.Sc	2016-18	Catalytic degradation of 4-nitrotoluene using silver nanoparticles fabricated Ag-P(NIPAM-Aa-Hema) hybrid core-shell micro gels
15	041549	Sana Arshad	M.Sc	2016-18	Synthesis of silver nanoparticles fabricated in poly(N-isopropylacrylamide-2-hydroxyethylmethacrylate-acrylic acid) microgels catalyst and their applications for reduction of Congo red in aqueous medium
16	041667	Muhammad Dilshad	M.Sc	2016-18	Synthesis of silver nanoparticles fabricated in poly(N-isopropylacrylamide-2-hydroxyethylmethacrylate-acrylic acid) microgels catalysts and their catalytic applications for reduction of 2,4-dinitrophenol
17	037908	Hina Manzoor Ahmad	M.Sc	2015-17	Synthesis and characterization of catalytic degradation of Rhodamine B in aqueous medium
18	037923	Misbah Arshad	M.Sc	2015-17	Catalytic degradation of methyl orange in the presence of silver-poly(N-isopropylmethacrylamide-co-acrylic acid) hybrid microgels
19	037994	Anum Masaud	M.Sc	2015-17	Systematic study of catalytic degradation of m-nitroaniline in the presence of responsive hybrid catalyst
20	038052	Muhammad Waseem Akram	M.Sc	2015-17	Synthesis and characterization of silver nanoparticles in N-isopropylmethacrylamide based microgels for catalytic degradation of methylene blue dye
21	34	Rida Khalid	BS	2013-17	Catalytic reduction of 4-Nitroaniline by utilizing silver nanoparticles loaded in poly(N-isopropylmethacrylamide-co-methacrylic acid) microgels

22	44	Muhammad Ahmad	BS	2013-17	Catalytic reduction of 2-Nitroaniline using silver nanoparticles immobilized in poly(N-isopropylmethacrylamide-co-methacrylic acid) microgels
23	45	Ammara Shahadat	BS	2013-17	Study of catalytic potential of silver nanoparticles loaded in polymer microgels towards reduction of 2-nitrophenol
24	20	Jawayria Najeeb	BS	2012-16	Silver nanoparticles immobilized in aqueous microgels as highly efficient and economical catalyst for the catalytic reduction of 2-Nitroaniline
25	21	Ghazia Ahmed	BS	2012-16	Synthesis of Silver Nanoparticles in poly(N-isopropylacrylamide-2-hydroxy ethyl methacrylate-acrylic acid) microgels for their catalytic application in reduction of 4-nitroaniline.
26	039822	Fozia Arif	M.Sc	2014-16	Reduction of 2-nitrophenol in the presence of silver-poly(N-isopropylmethacrylamide-co-acrylic acid) hybrid microgels.
27	039867	Javeria Tariq	M.Sc	2014-16	Synthesis and characterization of multi-responsive hybrid polymer microgels for catalytic reduction of nitrobenzene.
28	039805	Sana Khalid	M.Sc	2014-16	Catalytic degradation of methylene blue using silver nanoparticles fabricated N-isopropylmethacrylamide based hybrid microgels.
29	10	Zeenat Shaheen	B.S	2011-15	Catalytic reduction of 2-Nitroaniline using poly( N-Isopropyl acrylamide-co-acrylamide-co-acrylic acid) polymer microgels fabricated with silver nanoparticles.
30	034157	Muhammad Bilal	M.Sc	2013-15	Catalytic reduction of 4-nitrophenol using silver nanoparticles embedded hybrid microgels in aqueous medium.
31	033997	Ayesha	M.Sc	2013-15	Catalytic Reduction of nitrobenzene in the presence of silver-poly(N-isopropylacrylamide-acrylic acid-acrylamide) hybrid microgels
32	034102	Maria Rauf	M.Sc	2013-15	Catalytic reduction of 4-nitroaniline using poly(N-isopropylacrylamide-acrylic acid-acrylamide) polymer microgels fabricated with silver nanoparticles.
33	44	Muhammad Ikram	BS	2010-14	Synthesis and Characterization of hybrid microgels for catalytic reduction of p-nitrophenol in aqueous medium
34	038010	Mazia Nasir	M.Sc	2012-14	Synthesis and Characterization of Silver Nanoparticles in N-isopropylacrylamide based microgels for catalytic reduction of 2-Nitrophenol in aqueous medium
35	038089	Hafiza Nadia Akram	M.Sc	2012-14	Rapid reduction of Nitrobenzene using multi-responsive hybrid microgels as catalysts in aqueous medium
36	040080	Umma Rubab	M.Sc	2011-13	Synthesis and characterization of silver nanoparticles fabricated hybrid microgels for catalytic reduction of nitrobenzene

37	040082	Zonarah Butt	M.Sc	2011-13	Poly(N-isopropylacrylamide-co-methacrylic acid) microgel stabilized copper nanoparticles for catalytic applications
38	040160	Almas Alvi	M.Sc	2011-13	Silver nanoparticles stabilized in N-isopropylacrylamide based microgels for catalytic reduction of nitrobenzene
39	042550	Shanza Rauf Khan	M.Sc	2010-12	Synthesis, characterization and silver nanoparticles fabrication in N-isopropylacrylamide based microgels for degradation of p-nitrophenol
40	14	Sobia Jabeen	BS	2008-12	Silver nanoparticles based hybrid polymer microgels for catalytic reduction of p-nitrophenol in aqueous medium
41	05	Zoya Ateeq	M.Sc	2009-11	Smart polymer microgels as micro-reactors for tuning of optical properties of silver nano-particles
42	20	Farah Tufail	BS	2007-11	Synthesis and characterization of poly(N-isopropylacrylamide) microgels
43	18	Sadia Iqbal	BS	2007-11	Study of pH and temperature sensitivity of poly(N-isopropylacrylamide-co-acrylic acid) microgels

### **Membership of Societies**

- Associate Member of Royal Society of Chemistry, UK (AMRSC: 673804 dated 18 June 2019)
- Regular Member of American Chemical Society, USA (Membership #31984987 dated 22-07-2019)
- Life Member of Chemical Society of Pakistan (P-0419 since 2008)
- Member of Literary Society of Department of Chemistry QAU, Islamabad.

### **References**

1. Prof. Dr. Shuiqin Zhou, Department of Chemistry and the Center for Engineered Polymeric Materials, College of Staten Island of the City University of New York, 2800 Victory BLVD, Staten Island, New York 10314, USA  
Email: [zhoush@mail.csi.cuny.edu](mailto:zhoush@mail.csi.cuny.edu), [shuiqin.Zhou@csi.cuny.edu](mailto:shuiqin.Zhou@csi.cuny.edu)  
Office: +1(718)982-3897 Fax: +1(718)982-3910.
2. Prof. Dr. Weitai Wu, Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, Fujian 361005, China  
Email: [wuwtxmu@xmu.edu.cn](mailto:wuwtxmu@xmu.edu.cn)  
Office: (+86)592-218-5862