

Dr. ZAHID YASEEN
(Ph.D. in Chemistry)

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I have research experience in the field of Colloid and Surface Science, specifically colloids and biopolymer interactions, synthesis of biodegradable surfactants. Good bent in chemical/biochemical techniques used in chemistry/biochemistry. Good oral and written communication skills (Scientific research articles) with the ability to render complex scientific ideas into easily understandable concepts. Area of research interest is physical chemistry involving specifications like biophysical chemistry, Surface Science, Polymer Chemistry and other interdisciplinary subjects.

Objective: To teach / pursue research from a reputed institute where my result oriented research skills and capabilities could be enhanced.

Teaching /Postdoctoral Experience

1. Working as **Assistant Professor (Permanent Faculty)**, Department of Higher Education Govt. of J &K (6-04-2017 to till date).
2. **Postdoctoral Fellow** at Islamic University of Science and Technology, Kashmir, India (Nov 2015- 05-04-2017)
3. Worked as **Assistant Professor**, Department of Chemical Engineering, Islamic University of Science and Technology, Kashmir, India (Mar 2013- Nov2015)
4. Worked as a **Lecturer (Guest faculty)**, Department of Chemistry, Amar Singh College, Srinagar-190006, India. (Apr 2009 - Mar 2010)
5. Worked as a **Post Graduate Teacher**, Kendriya Vidyalaya, Panthachowk, Srinagar (May 2008- Dec 2008).

AWARDS / PROJECTS

1. **Young Scientist Award** by **Department of Science and Technology, India** with research grant of Rs 35 lakh for research project “Green approach for solubilization of polyaromatic hydrocarbons using newly synthesized surfactant based hydrogels”. YSS/2014/000804
2. Co-investigator in **University Grants Commission (UGC) funded project** “Synthesis characterisation and applications of surfactant based tough hydrogel” at Islamic university of Science and technology, Kashmir, India.

Achievements

1. *Qualified twice National Eligibility Test (NET) for Asst. Prof. in June 2008 and 2009. NET is conducted at national level jointly by University Grants Commission (UGC) and Centre for Scientific and Industrial Research (CSIR), Govt. of India, New Delhi.*
2. *Qualified for Junior Research Fellowship (UGC-JRF) conducted by CSIR, India in December 2010.*
3. *Worked as Junior Research Fellow (JRF) for one year in the Dept. of Chemistry, Aligarh Muslim University in a CSIR funded project 'Drug-Surfactant interactions' (06-04-2010 to 31-03-2011).*
4. *Worked as Project Fellow in UGC-DAE project of Baba Atomic Research centre, Mumbai (BARC) 'Drug and serum albumin complexation' from 16-09-2012- to 31-12-2013.*

Title & Summary of Ph.D. Thesis	<p><i>Studies on Drug-Surfactant and Drug-Polymer Interactions: Implications in Formulations)</i></p> <p>In my Ph.D. project, I worked on</p> <ul style="list-style-type: none"> ➤ Micelle formation and adsorption characteristics of the binary systems of amphiphilic drugs & nonionic surfactants in absence/presence of sodium salts. Interaction between cationic amphiphilic drugs and polyethyleneglycol: Effect of polymer molecular weight on the association behavior of drugs. ➤ Comperative study of cationic amphiphilic drugs with biopolymers like deoxyribonucleic acid (DNA), human serum albumin (HSA) and thermomyces laniginosus lipase (TLL).
Techniques used	<p><i>Conductometric, Small-Angle Neutron-Scattering, Spectrophotometric, Spectrofluorimetric, Tensiometric, Dynamic light scattering, Gel electrophoresis, Circular Dichroism, ¹H NMR, Confocal microscopy, TEM and pH metric measurements.</i></p>

Reviewer	<p><i>Chiang Mai Journal of Science (Chiang Mai J. Sci.). China</i></p> <p><i>Croatica Chemica Acta</i></p> <p><i>Journal of Material and Environmental Science, Morroco</i></p> <p><i>Journal of Molecular Liquids</i></p>
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Accepted Publications : 22

1. Kabir-ud-Din, **Z. Yaseen**, M. S. Sheikh, Modulation of aggregation behavior of amphiphilic drug AMT under the influence of polymer molecular weight and composition, *Colloids and Surfaces B: Biointerfaces* 87 (2011) 340-345.
2. Kabir-ud-Din, **Z. Yaseen**, Formulation of amphiphilic drug amitriptyline hydrochloride by polyoxyethylene sorbitan esters in aqueous electrolytic solution, *Colloids and Surfaces B: Biointerfaces* 93 (2012) 208-214.
3. **Z. Yaseen**, M. S. Sheikh, Kabir-ud-Din, Influence of molecular structure on the micellar and interfacial behavior of binary mixtures of amphiphilic drugs and polyoxyethylene ethers,

4. **Z. Yaseen**, Jeenat Aslam, A. A. Dar, Kabir-ud-Din, Effect of temperature on the supramolecular behavior of antidepressant drug amitriptyline hydrochloride in the presence of nonionic surfactants (tweens and brijs) as pharmaceutical excipients, *Z. Phys. Chem* **227** (2013)459-480.
5. **Z. Yaseen**, A. R. Banday, M. A. Hussain, M. Tabish, Kabir-ud-Din, Comparative Study of Cationic Amphiphilic Drugs with DNA and DNA-assisted Fluorescence Resonance Energy Transfer Amplification, *Spectrochimica Acta A*, **122**, 25 March 2014, 553-564.
6. **Zahid Yaseen**, Sayeed Ur Rehman, Mohammad Tabish, Kabir-ud-Din, Interaction between DNA and Cationic Diester Bonded Gemini Surfactants, *Journal of Molecular Liquids* 197 (2014) 322-327
7. M. A. Husain, **Zahid Yaseen**, S. Ur Rehman, T. Sarwar, M. Tabish, Naproxen intercalates and causes photocleavage of DNA ROS generation **FEBS Journal** 280(2013):6569-80.
8. Sayeed Ur Rehman, **Zahid Yaseen**, Mohammed Amir Husain, Tarique Sarwar, Hassan Mubarak Ishqi and Mohammad Tabish, Interaction of 6 Mercaptopurine with calf thymus DNA – deciphering the binding mode and photoinduced DNA damage **PLOS ONE**
9. M. Parveen, A.M. Malla, **Z. Yaseen**, Synthesis, characterization, DNA-binding studies and acetylcholinesterase inhibition activity of new 3-formyl chromone derivatives, *J. Photochemistry and Photobiology B: Biology* 130 (2014)179-187.
10. M. Akram, I. A. Bhat, **Zahid Yaseen**, Kabir-ud-Din, Physicochemical Investigation of Dicationic Ester Bonded Gemini Surfactants with Bile Salts: insights from surface tension, dynamic light scattering and fluorescence **Colloid surface A** 444 (2014)209-216.
11. Shamsuzzaman, Ayaz Mahmood Dar, **Zahid Yaseen**, Khursheed Alam, Altaf Hussain, Manzoor Ahmad Gattoo Steroidal Pyrimidines: Synthesis, Characterization, Molecular docking studies with DNA and *in vitro* Anticancer activity (*Journal Molecular Structure*, **1045** (2013)62-71).
12. M. A. Rub J.M. Khan, **Zahid Yaseen**, R. H. Khan, Kabir-ud-Din, Conformational changes of serum albumin upon complexation with amphiphilic drug imipramine hydrochloride, **Journal of Proteins and Proteomics** 3 (2012) 27.
13. Kabir-ud-Din, **Zahid Yaseen**, V.K. Aswal, A. A. Dar, Rheological Response and Small-Angle Neutron-Scattering Study of Diester Bonded Cationic Biodegradable Gemini Surfactants in Presence of Different Additives **Colloid and Polymer science** 292(2014) 3113–3125).
14. Shamsuzzaman , A.A. Khan, A. Baqi, A. Ali, M. Asif, A. Mashrai, H. Khanam, A.

Sherwani, **Zahid Yaseen**, M. Owais, Synthesis, characterization, biological evaluation and molecular docking of steroidal spirothiazolidinones **Journal of Molecular Structure** 1085 (2015) 104–114.

15. Zahid Yaseen, Sayed-ur-Rehman, Mohammad Tabish, Aabid H. Shalla, Kabir-ud-Din, Modulation of bovine serum albumin fibrillation by ester bonded and conventional gemini surfactants. **RSC Advances** 5 (2105), 58616-58624.

16. Ayaz M. Dar, Urfi Ishrat, **Zahid Yaseen**, Manzoor A. Gattoo, In vitro cytotoxicity and interaction of new steroidal oxadiazinanones with calf thymus DNA using molecular docking, gel electrophoresis and spectroscopic techniques. **Journal of Photochemistry and Photobiology B: Biology** 148 (2015) 340-350.

17. Masood Ahmad Rizvi, Yuvraj Dangat, **Zahid Yaseen**, Vivek Gupta, Khaliqz Zaman Khan. Synthesis, Crystal Structure and in vitro DNA Binding Studies of Combretastatin A-4 Analogue, **Croat. Chem. Acta** 2015, 88(3), 289–296.

18. Aabid H Shalla , T A Rangreez , M A Rizvi , **Zahid Yaseen** , Kabir-ud-Din, Strength and sorption capacity modulation of carboxymethylcellulose hydrogels in presence of ester-bonded gemini surfactants *Journal of Molecular Liquids* 2017, 238, 215-224.

19. Aabid H. Shalla, Mushtaq A. Bhat, **Zahid Yaseen** Hydrogels for removal of recalcitrant organic dyes: A conceptual overview *Journal of Environmental Chemical Engineering* 2018, 6(5) 5938-49.

20. Z. Yaseen, V. K. Aswal, X. Zhou, Kabir-ud-Din and S. Haider, Morphological changes in human serum albumin in presence of cationic amphiphilic drugs *New J. Chem.*, 2018,42, 2270-2277.

21. Mushtaq A Bhat, Tauseef A Rangreez, **Zahid Yaseen**, Reyaz A Rather, Aabid H Shalla, Smart polyacrylamide– cholic acid hybrid composite hydrogel: development, characterization, and encapsulation study of methylene blue dye 2022,33, 104515.

22. Mushtaq A. Bhat , Reyaz A. Rather , **Zahid Yaseen** , Aabid H. Shalla Viscoelastic and smart swelling disposition of Carboxymethylcellulose based hydrogels substantiated by Gemini surfactant and in-vitro encapsulation and controlled release of Quercetin, *International Journal of Biological Macromolecules*2022, 207, 374-386.

Paper Presented/Accepted at Conferences/Seminar

1. Kabir-ud-Din, **Z. Yaseen**, A. Z. Naqvi, **Interaction of amphiphilic drug amitriptyline hydrochloride–nonionic surfactant system in mixed and mixed monolayer formation at 298.15-313.15 K**, Indian Council of Chemistry, XXIX Annual Conference, Department of Chemistry, Punjab University, Chandigarh, December 19-21, 2010.

2. **Z. Yaseen, Kabir-ud-Din, M. S. Sheikh, Modulation of aggregational behavior of amphiphilic drug AMT under the influence of polymer weight, International Conference on Chemistry, Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh 202002, March 5-6, 2011.**
3. **Z. Yaseen, Kabir-ud-Din, M. S. Sheikh, Influence of Molecular Structure on the Micellar and Interfacial Behavior of Amphiphilic Drug IMP and PMZ, Indian Council of Chemistry, Osmania University, Hyderabad, December 28-30, 2011.**
4. **Z. Yaseen, Kabir-ud-Din, Drug-Polymer Interaction: A Quantitative Approach to find the effect of Composition and Molar Mass of Polyethylene Glycol on Aggregational Behavior of Imipramine Hydrochloride, Indian Council of Chemistry, Osmania University, Hyderabad, December 28-30, 2011.**
5. **Z. Yaseen, G. Sharma, Kabir-ud-Din, Strong Interaction between Cationic Amphiphilic Drugs and DNA at pH 7: DNA Damage, 14th National Symposium Chemistry (NSC-14) and 6th CSRI-RSC Symposium in Chemistry, National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) and Indian Institute for Science Education and Research (IISER-TVM) February 2-5, 2012.**
6. **Z. Yaseen, V.K. Aswal, Kabir-ud-Din, Binding studies of Amphiphilic Drug Imipramine Hydrochloride and Promethazine Hydrochloride to Human Serum Albumin. 2nd International Symposium on Neutron Scattering, Bhabha Atomic Research Centre, Mumbai.**

Educational time line

Year	Course	Institute/University	Remarks
2010 - 2013	Ph.D. in Chemistry	Aligarh Muslim University, Aligarh, U.P.-202002.	Title of the Thesis: <i>Studies on Drug-Surfactant and Drug-Polymer Interactions: Implications in Formulations.</i> The main focus of my work remains on Advanced Colloids and Biophysical Chemistry, worked under the supervision of Prof. Kabir-ud-Din , Emeritus Scientist, Aligarh Muslim University.
2006-2008	M.Sc. in Chemistry	University of Kashmir, Hazratbal, Srinagar-190006, J&K, India.	During M.Sc. my major subjects/specialization was Physical Chemistry that included the courses on Quantum Chemistry, Statistical Thermodynamics, Electrochemistry, Material Science and Chemical Kinetics.
2003-2005	B.Sc.	University of Kashmir, Hazratbal, Srinagar-190006, J&K, India.	Majors: Biochemistry/Chemistry/Zoology/English

<p>Referees 1. Prof. Kabir-ud-Din (Rtd) UGC-BSR Faculty Fellow and Scientist Emeritus Department of Chemistry Aligarh Muslim University Aligarh-202002, India kabir7@rediffmail.com (Mobile: +919412517274)</p>	<p>2. Dr. Mohammad Tabish Reader, Department of Biochemistry Aligarh Muslim University Aligarh-202002, India tabish.biochem@gmail.com (Mobile : +9634780818)</p>
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3. Dr. Aijaz Ahmad Dar Asst. Prof., Department of Chemistry Kashmir University Srinagar-190002, India aijaz_n5@yahoo.co.in (Mobile: +919906417902)	4. Dr. Mohd Akram Asst. Professor, Dept. of Chemistry Aligarh Muslim University Aligarh-202002, India drmohdakram@rediffmail.com (Mobile: 9411040048)

Personal Details

Date of Birth : Dec, 01 1985

Father's name : Mr. Mohammad Yaseen

Marital Status : Married

Strengths: Punctual, Adaptive, Result Oriented

Languages known: English, Hindi, Urdu, Kashmiri

Religion: Islam

Date: 8-06-2024

Place: Srinagar

(ZAHID YASEEN)