

Dr. RIYAJ MOHAMMAD

Current Designation: Assistant Professor

Office Address: Department of Chemistry,

Gandhi Faiz-e-Aam College, Shahjahanpur (U.P.), INDIA -242001

Residence: Kakra Kalan, Near Noori Masjid, Shahjahanpur

Mobile Nos. +918126136472, +918787071699

Qualification/Specialization: M.Sc., Ph.D. (Physical Chemistry)

Topic of Ph.D.: "Solution Behavior of Amphiphiles in the Presence and Absence of Additives"

E-mail: riyaz138@gmail.com

Teaching Experiences:

- I have worked as an **Assistant Professor** in the Department of Applied Sciences and Humanities since **August, 2010 to August 2011** at Alpine College of Engineering, G. B. Nagar, India.
- I have worked as an **Assistant Professor** in the Department of Applied Sciences and Humanities since **Sep. 2011 to June 2012** at G. L. Bajaj Group of Institutions, Mathura, India.
- I have worked as an **Assistant Professor** in the Department of Chemistry at Invertis university, Bareilly from **11 July 2012 to December 2016**.

Research publications:

1. Effect of Alkylamine Chain Length on the Critical Micelle Concentration of Cationic Gemini Butanediyl- α , ω -bis(dimethylcetylammonium bromide) Surfactant
Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din
J. Dispersion Sci. Technol, **30**:1486-1493, 2009.
2. The Interaction of Cationic Gemini Surfactant 1, 4-Butanediyl- α , ω -bis (dimethylcetylammonium bromide) with Primary Linear Alkanols
Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din
J. Dispersion Sci. Technol, **31**: 129-137, 2010.
3. Mixed Micellization of Cationic Gemini Surfactants with Primary Linear Alkylamines
Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din
J. Surfactants and detergents, **13**: 179-188, 2010.
4. Surface Properties and Mixed Micellization of Cationic Gemini Surfactants with Ethyleneamines
Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din
J. Chem. Eng. Data, **55**: 370-380, 2010.

5. Mixed Micellization and Interfacial Properties of Alkanediyl- α , ω - bis(dimethylcetylammonium bromide) in the Presence of Alcohols

Riyaj Mohammad, Iqrar Ahmad Khan, Kabir-ud-Dinand Pablo C. Schulz

J. Molecular Liquids, 162:113-121, 2011.

6. Surface and Solution Properties of Cationic Gemini Surfactants with Primary Linear Alkanols

Riyaj Mohammad, Iqrar Ahmad Khan, Kabir-ud-Din and Pablo C. Schulz

J. Solution Chem., 42: 2310-2328, 2013.

7. Fluorescence Study of Butanediyl-1, 4-bis(dimethylcetylammonium bromide) in the Presence of Alcohols

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Journal of Emerging Technology and Innovative Research, 6 : 999-1007, 2019.

8. A Fluorescence Study on Surface Properties of Cationic Gemini Surfactant with some Special Alcohols

Riyaj Mohammad

Borneo journal of resource science and technology, 10: 126-130, 2020.

Participation in Seminars / Conferences:

1. Effect of Alkylamine Chain Length on Critical Micelle Concentration of Cationic Gemini Butanediyl- α , ω - bis(dimethylcetylammonium bromide) Surfactant.

Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din

26th Annual Conference of Indian Council of Chemist, Sagar, 26 – 28th February, 2008.

2. The Interaction of Cationic Gemini Surfactant 1, 4-Butanediyl- α , ω -bis (dimethylcetylammonium bromide) with Primary Linear Alkanols.

Iqrar Ahmad Khan, **Riyaj Mohammad**, Md. Sayem Alam and Kabir-ud-Din

27th Annual Conference of Indian Council of Chemist, Gurukul Kangri Vishwavidyalaya Haridwar, 26 – 28th December, 2008.

3. Mixed Micellization of Cationic Gemini Surfactant Pentanediyl- 1, 5-bis(dimethylcetylammonium bromide) with Primary Linear Alkylamines

Iqrar Ahmad Khan, **Riyaj Mohammad**, and Kabir-ud-Din

National Seminar on Emerging Trends and Advances in Chemical Research, Department of Chemistry, University of Allahabad, Allahabad-211002, February 8-10, 2009.

4. Surface Properties and Mixed Micellization of Cationic Gemini Surfactants with Ethyleneamines

Iqrar Ahmad Khan, **Riyaj Mohammad** and Kabir-ud-Din*

14th National Conference on Surfactants, Emulsions and Biocolloids Department of Chemistry, University of Kashmir, July 28-30, 2009.

5. Mixed Micellization and Interfacial Properties of Alkanediyl- α , ω -bis(dimethylcetylammonium bromide) in the Presence of Alcohols

Iqrar Ahmad Khan and **Riyaj Mohammad**

National Symposium on Recent Trends in Chemical Science Department of Chemistry, Aligarh Muslim University, Aligarh, February 24-25, 2010.

6. The Interaction of Cationic Gemini Surfactant 1, 5-Pentanediyl- α , ω -bis (dimethylcetylammonium bromide) with Primary Linear Alkanols.

Iqrar Ahmad Khan, **Riyaj Mohammad**, and Kabir-ud-Din.

National Seminar on Membranes, Microemulsions and Self-Assembled Systems, September 28-30, 2010, SMIT, Majitar, Sikkim.

7. The Interaction of Cationic Gemini Surfactant Hexanediyl- 1, 6-bis (dimethylcetylammonium bromide) with Primary Linear Alkanols.

Riyaj Mohammad, Iqrar Ahmad Khan

International Conference on Chemistry: Frontiers and Challenges, 6 March, 2011, Department of Chemistry, Aligarh Muslim University, Aligarh.

8. Mixed micellization and interfacial properties of hexanediyl-1, 6 bis(dimethylcetylammonium bromide) in the presence of amines.

Riyaj Mohammad, Iqrar Ahmad Khan, and Kabir-ud-Din*

International Conference on Chemistry: Frontiers and Challenges, 2-3 March, 2013 Department of Chemistry, Aligarh Muslim University, Aligarh.

9. Participated in the national seminar on atomic energy in the service of the nation on 1st March 2015 at Bareilly College, Bareilly

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10. Effect of additives on surface properties on cationic surfactant and its impact on environment.

Riyaj Mohammad

National Conference on Bio-Degradation of wildlife environment and biodiversity on 19-20 March, 2017, Department of Zoology, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India.

11. Importance of surfactants in life and its impact on environment.

Riyaj Mohammad

6th National conference on scientific rationality and socio-cultural changes on 20-21 January 2018, organized by Government (P.G.) college, bisalpur, pilibhit, U.P.

12. Role of surfactants in life and its effect on environment.

Riyaj Mohammad

International conference on Digital India: Empowering the Society on 27th January 2018, organized by department of chemistry, Bareilly College, Bareilly

13. Importance of surfactants in life and their impact on environment

6th National Conference on Scientific Rationality and Socio-Cultural Changes on 20-21 January 2018.

14. Effect of ethyleneamines on the surface properties of cationic Gemini surfactant butanediyl-1,4-bis(dimethylcetylammonium bromide) (16-4-16).

Riyaj Mohammad

3rd International Conference on Recent Advances in Science held on 1-2 march, 2019 at Invertis University, Bareilly (UP), India.

15. Interfacial properties of cationic Gemini surfactant hexanediyl-1,6-bis(dimethylcetylammonium bromide) in the presence of some special alcohols.

Riyaj Mohammad

6th International Conference on “Translational Approaches in Clinical, Environmental and Biotechnological Research” held on 11-12 October, 2019 at Invertis University, Bareilly (UP), India.

Academic and Extra-Curricular Engagement at College level:

1. Member, College Proctorial board in the session 2017-2018.
2. Member, College Admission Committee since 2018
3. Member, College Anti Ragging Committee since 2019-2020.
4. Incharge, Seminar Library, Chemical Association, Department of Chemistry.
5. Co-cordinator, Chemical Association, Department of Chemistry.

Refresher/Orientation courses attended

1. Attended a UGC Sponsored Orientation Course in Chemistry organized by Aligarh Muslim University, Aligarh w.e.f. 08 May 2017 to 06 June 2017 and obtained “A” grade.
2. Participated in UGC Sponsored online Refresher Course - Environmental Studies (open to all) from 3rd September to 18th September 2020 (during COVID-19) organized by Aligarh Muslim University, Aligarh w.e.f. 08 May 2017 to 06 June 2017 and obtained “A” grade.