

Curriculum Vitae

Personal Details

Dr. Utkarsh Uttamrav More
Ph. D. (Chemistry)
S.V. National Institute of Technology (NIT),
(The Institute of National Importance)
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Contact No.: +91-8238392612
DOB: 23rd February, 1988
Marital status: Married
Nationality: Indian



Career Objectives

To obtain a responsible position as an Teacher that will utilize my teaching and research dedication to student's educational needs and development.

Academic Profile

2012-2017 Ph.D. in **Synthesis of Ionic Liquids and Cationic Gemini Surfactants, SVNIT Surat, Gujarat, India.**

Thesis entitled: "Studies on the Micellar Properties of Cationic Gemini Surfactants in the Presence of 1-alkyl 3-methylimidazolium bromide Ionic Liquids in Aqueous Solutions".

Supervisor: Dr. Naved I. Malek

2008-2010 Master of Science in **Physical Chemistry** (First class with 65.50%), Shivaji University, Kolhapur, M.S. India

2005-2008 Bachelor of Science in **Chemistry** (First class with 65.96%) Shivaji University, Kolhapur, M.S. India.

Research Interest

- Designing novel dimeric (Gemini) surfactants, biological active surfactant with Ionic Liquids, and their aggregation behaviour in various external environments.
- Synthesize novel Ionic Liquids with different moieties.
- Micellization behaviour and physicochemical properties of Gemini surfactant with ionic liquids and their applications in various areas.

- Investigation of thermodynamics and interfacial properties of surfactants and Ionic Liquids.
- Green approach and applications of Ionic Liquids and Surfactants
- Ionic liquids applications in semiconducting materials and in material chemistry.

Research Highlights

- ❖ **H-index** = 13
- ❖ **i10-index** = 13
- ❖ **Citations** = 435
- ❖ **Publications** = 16 articles and 02 Book chapter
- ❖ **Google Scholar id:**
<https://scholar.google.com/citations?hl=en&user=DbtH3MIAAAJ>
- ❖ **Scopus link-**
<https://www.scopus.com/authid/detail.uri?authorId=56565269000>
- ❖ **ORCID ID:** 0000-0003-1374-2938
- ❖ <https://orcid.org/orcid-search/search?searchQuery=0000-0003-1374-2938>
- ❖ **AD Scientific Index ID:** 4506929

Scientific Instrument Knowledge and Skills

- ❖ **Spectroscopy:** UV-Vis spectrometer, Spectrofluorometer, FT-IR, NMR, Mass spectroscopy.
- ❖ **Chromatographic Techniques:** TLC, HPLC, GC
- ❖ **Thermal analysis:** TGA, DSC
- ❖ **Particle size analysis:** DLS
- ❖ **Surface techniques:** Surface tensiometer, Contact angle measurement
- ❖ **Other Instruments:** pH meter, Conductometer, Potentiometer, Refractometer, Densitometer, Viscometer.

Research Experience

2011-2015 Project Assistant Fellow: Project entitled: “*Ionic Liquids as the property modulator of Gemini Surfactants*” Department of Science and Technology (DST), New Delhi (Registration No. 0028/ 2010 Dated April 20, 2010).

Project Guide: Dr. Naved Malek, Associate Prof. Dept. of Chemistry, SVNIT, Surat.

Teaching Area

For UG and PG students

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|-------------------|------------------------|
| Surface chemistry | Thermodynamics |
| Chemical Kinetics | Bio-Physical Chemistry |
| Electrochemistry | Physical Chemistry |
| Quantum Chemistry | Material Chemistry |

Academic Activities

- ✚ Academic co-ordinator, Dept. of Chemistry, Sanjay Ghodawat University, Kolhapur.
- ✚ ERP co-ordinator, Dept. of Chemistry, Sanjay Ghodawat University, Kolhapur.
- ✚ IQAC, NAAC and various departmental committee member, Dept. of Chemistry, Shivaji University, Kolhapur.

Teaching Experience

- ❖ Nov. 2021 to Present: Assistant Professor (Ad-hoc), Dept. of Chemistry, Shivaji University, Kolhapur, M.S. India.
- ❖ Jan. 2021 to June 2021: Assistant Professor (Ad-hoc), Sanjay Ghodawat University, Kolhapur.
- ❖ August 2018 to May 2020: Assistant Professor (Ad-hoc), Sanjay Ghodawat University, Kolhapur.
- ❖ April 2017 to August 2018: Assistant Professor, Marwadi University, Rajkot

Awards and Achievements

- ❖ A. D. Scientific index, World Scientist and University ranking-2023. In Shivaji University Ranking 49
- ❖ A. D. Scientific index, World Scientist and University ranking-2024. In Shivaji University Ranking 51
- ❖ A. D. Scientific index, World Scientist and University ranking-2025. In Shivaji University Ranking 61
- ❖ A. D. Scientific index, World Scientist and University ranking-2025. In Shivaji University Ranking 62
- ❖ Project Fellow in DST sponsored research project fellowship

- ❖ Sponsorship Research Fellowship from TEQIP-II in SVNIT.
- ❖ Faculty Development Program Level-1 and Level-2 at Marwadi University, Rajkot.
- ❖ Best oral presentation Award in International Conference on Advances in Chemical Sciences at Shivaji University, Kolhapur, India.
- ❖ Best oral presentation Award in International Conference on Advances in Material Sciences at R. R. College Jath, Sangli, India.
- ❖ Best oral presentation Award in 2nd Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (IC2S2TD-2021) Organized by NIT, Surat, and Chung-Ang University, Soul, South Korea

Personal Skills

- ❖ Good Explanation Skill and Leadership Qualities, Hard and smart working abilities.
- ❖ Good Analytical and Logical Approach.
- ❖ Good Time Management and Teamwork.
- ❖ Good in Decision Making and Human Relations.

M.Sc. Dissertation Students Guided

Project completed (PG): 23 Students

Publications

Book Chapters

[1] **Utkarsh U. More**, Omar A. El Seoud, and Naved I. Malek, Dual Role Played by Ionic Liquids to Modulate the Interfacial and Micellar Properties of the Single Chain Cationic Surfactants in Aqueous Solution, Monograph Series, Physical Chemistry for Engineering and Applied Sciences, Apple Academic Press, CRC Press, Taylor and Francis, **ISBN: 9781771886321**, July-2018.

[2] Aviraj R. Kuldeep, **Utkarsh U. More**, Highly Efficient Nanostructured TiO₂@carbon Thin Film for Photocatalytic degradation and Environment Remediation-A Green Approach, Thin Film Nanomaterials, 89-110, 2024. Bentham Science Publishers, **ISBN**: 978-981-5256-09-3.

DOI: 10.2174/97898152560861240101.

Peer reviewed, SCI OR UGC listed Journal Research Articles

[1] **Utkarsh U More**, Zuber S Vaid, Sargam M Rajput, Naved I Malek, Omar A El Seoud, “Effects of 1-alkyl-3-methylimidazolium bromide ionic liquids on the micellar properties of [butanediyl-1,4-bis(dimethyldodecylammonium bromide)] Gemini surfactant in aqueous solution”, Colloid and Polymer Science, 295, 2351-2361, **2017**. **ISSN**: 1435-1536.

DOI: 10.1007/s00396-017-4210-x. **Impact Factor – 2.43**

[2] **Utkarsh More**, Zuber S. Vaid, Sargam Rajput, Y Kadam, Naved Malek, “Effect of imidazolium-based ionic liquids on the aggregation behavior of twin-tailed cationic gemini surfactant in aqueous solution”, Journal of Dispersion Science and Technology, 38, 393-402, **2017**. **ISSN**: 0193-2691.

DOI: 10.1080/01932691.2016.1170610. **Impact Factor - 2.06**

[3] **U. More**, P. Kumari, Z. Vaid, and K. Behera, Naved I Malek, “Interaction between Ionic Liquids and Gemini Surfactant: A Detailed Investigation into the Role of Ionic Liquids in Modifying Properties of Aqueous Gemini Surfactant”, Journal of Surfactants and Detergents, 19, 75-89, **2016**. **ISSN**: 1558-9293.

DOI: 10.1007/s11743-015-1747-x. **Impact Factor – 1.97**

[4] **U. More**, Z. Vaid, P. Bhamoria, A. Kumar Naved I Malek, Effect of [Cnmim][Br] Based Ionic Liquids on the Aggregation Behavior of Tetradecyltrimethylammonium bromide in Aqueous Medium, Journal of Solution Chemistry, 44, 850-874, **2015**. **ISSN**: 1572-8927.

DOI: 10.1007/s10953-015-0318-0. **Impact Factor – 1.7**

[5] Sargam M Rajput, **Utkarsh U More**, Zuber S Vaid, Kamlesh D Prajapati, Naved I Malek, “Impact of organic solvents on the micellization and

interfacial behavior of ionic liquid based surfactants”, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 507, 182-189, **2016**. **ISSN:** 0927-7757.

DOI:10.1016/j.colsurfa.2016.08.008. **Impact Factor – 4.9**

[6] Rakhi N. Mehta, **Utkarsh More**, Naved I Malek, Mousumi Chakraborty, Parimal A. Parikh, “Study of stability and thermodynamic properties of water-in-diesel nanoemulsion fuels with nano-Al additive”. Applied Nanoscience 5, 891–900, **2015**. **ISSN:** 2190-5517

DOI: 10.1007/s13204-014-0385-3. **Impact Factor – 3.87**

[7] Zuber S Vaid, **Utkarsh U More**, Shantilal B Oswal, Naved I Malek, “Experimental and theoretical excess molar properties of imidazolium based ionic liquids with isomers of butanol”, Thermochimica Acta, 634, 38-47, **2016**. **ISSN:** 0040-6031.

DOI: 10.1016/j.tca.2016.03.026. **Impact Factor – 2.76**

[8] Zuber Vaid, **Utkarsh More**, Sushma P. Ijardar, Naved I. Malek, “Investigation on thermos-physical and excess properties of binary mixtures of imidazolium based ionic liquids at temperatures (293.15 to 323.15) K: III [Cnmim][PF6] (n = 4, 6, 8) + THF”. Journal of Chemical Thermodynamics, 86, 143-153, **2015**. **ISSN:** 0021-9614.

DOI: 10.1016/j.jct.2015.02.011. **Impact Factor – 3.27**

[9] Z. Vaid, **U. More**, R. Gardas, Naved I Malek and S.P. Ijardar, “Composition and temperature dependence excess properties of binary mixtures of imidazolium based ionic liquids: II [Cnmim][PF6] + propylamine”, Journal of Solution Chemistry, 44, 718-741, **2015**. **ISSN:** 1572-8927.

DOI: 10.1007/s10953-015-0325-1. **Impact Factor – 2.0**

[10] Heta Patel, Zuber S. Vaid, **Utkarsh U. More**, Sushma P. Ijardar, Naved I. Malek, “Thermophysical, acoustic and optical properties of binary mixtures of imidazolium based ionic liquids + polyethylene glycol”, Journal of Chemical Thermodynamics, 99, 40-53, **2016**. **ISSN:** 0021-9614.

DOI: 10.1016/j.jct.2016.02.025. **Impact Factor – 2.88**

[11] Zubin R. Master, Zuber S. Vaid, **Utkarsh U. More**, Naved I Malek, "Molecular interaction study through experimental and theoretical volumetric, transport and refractive properties of N-ethylaniline with aryl and alkyl ethers at several temperatures". Physics and Chemistry of Liquids, 54, 223-244, **2016**. ISSN: 0031-9104.
DOI: 10.1080/00319104.2015.1074047. **Impact Factor – 1.84**

[12] Naved I. Malek, Zuber S. Vaid, **Utkarsh U. More**, Omar A. El Seoud, "Ionic-liquid-based surfactants with unsaturated head group: synthesis and micellar properties of 1-(n-alkyl)-3-vinylimidazolium bromides". Colloid and Polymer Science, 293, 3213–3224, **2015**. ISSN: 1435-1536.
DOI: 10.1007/s00396-015-3746-x. **Impact Factor – 2.43**

[13] Aviraj Kuldeep, **Utkarsh More**, Sharadchandra S Patil, Sushant Patil, Amitkumar Patil, Low cost synthesis and photocatalytic study of TiO₂-graphite nanocomposite, Research on Chemical Intermediates, 49, 3765–3785, **2023**. ISSN: 1568-5675.
DOI: 10.1007/s11164-023-05068-6. **Impact Factor – 3.13**

[14] Archana Rajmane, Rupesh Bandal, Sunita Shirke, **Utkarsh More**, Suresh Patil, Arjun Kumbhar, [DABCO-C18]Br: A novel basic surfactant for the synthesis of dihydropyrano[3,2-c]chromenes and 2-aminobenzochromenes under ambient conditions, Journal of Molecular Liquids, 391, 123247, **2023**. ISSN: 0167-7322.
DOI: 10.1016/j.molliq.2023.123247. **Impact Factor – 6.64**

[15] Archana Rajmane, Chunilal Pawara, Sumit Kamble, **Utkarsh More**, Suresh Patil and Arjun Kumbhar, Pd(OAc)₂/[C18-DABCO-C18]2Br: A nano palladium catalytic approach for Mizoroki-Heck and Suzuki-Miyaura coupling reactions in water, New Journal of Chemistry, 47, 20171-20181, **2023**. ISSN: 1369-9261.
DOI: 10.1039/D3NJ04035F **Impact Factor – 3.92**

[16] Riya Fernandes, Sai Vaze, Anurag Jadhav, **Utkarsh More**, Arjun Kumbhar, Archana Rajmane, [C18-DABCO] 2HP: A novel Gemini surfactant for the synthesis of Pyrano [3, 2-c] quinolone derivatives in

aqueous medium, Journal of Molecular Liquids, 437, 128428, **2025**. ISSN: 0167-7322 (Print) 1873-3166 (Online).

DOI: <https://doi.org/10.1016/j.molliq.2025.128428> **Impact Factor – 5.2.**

Conferences / Seminars National/International

Papers presented

1. Utkarsh U. More and Naved I. Malek*, “Ionic Liquids Induced the micellization behaviour of Cationic Gemini Surfactants in Aqueous Solution” **43rd Annual National Conference of Indian Council of Chemists**, 26-28 December, 2024, PES's Modern College of Arts, Science and Commerce (Autonomous), Ganeshkhind, Pune-16 & PGKM's Haribhai V. Desai College of Arts, Science and Commerce (Autonomous), Pune-02. **Oral Presentation.**
2. Utkarsh U. More and Naved I. Malek*, “Effect of Ionic Liquids on the Micellization Behaviour of Cationic Gemini Surfactants In Aqueous Medium” **2nd Virtual International Conference on Chemical Sciences in Sustainable Technology and Development ((IC²S²TD-2021))**, 24th-26th November 2021, Organized by Department of Chemistry, SVNIT, Surat, Gujarat, India in Association with Chung-Ang University, South Korea. **Oral Presentation (Best Oral Award)**
3. Utkarsh U. More and Naved I. Malek*, “Role of Ionic Liquids on the Micellization Behaviour of Cationic Gemini Surfactants In Aqueous Medium” **1st Virtual International Conference on Chemical Sciences in Sustainable Technology and Development ((IC²S²TD-2020))**, 01st-03rd December, 2020 Organized by Department of Chemistry Department, SVNIT, Surat, Gujarat, India in Association with Chung-Ang University, South Korea. **Oral Presentation**

4. Utkarsh U. More and Naved I. Malek*, "Effect of Ionic Liquids on the micellization behaviour of Cationic Gemini Surfactants in Aqueous Solution and their applications in Nanoparticles" ***International Conference on Smart Materials and Nanotechnology (ICSMN-2020)*** 02-04 January, 2020 at SKN Sinhgad College of Engineering, Korti, Pandharpur, India. **Poster Presentation**
5. Utkarsh U. More and Naved I. Malek*, "Study of aggregation behaviour of Cationic Gemini Surfactant in the presence of 1-alkyl 3-methylimidazolium bromide Ionic liquids in aqueous solution" ***International Conference on Advances in Material Sciences***, 27-29 December, 2018, Raje Ramrao Mahavidyalaya, Jath, Sangli, India. **Oral Presentation (Best Oral Award)**
6. Utkarsh U. More and Naved I. Malek*, "Effects of 1-alkyl-3-methylimidazolium bromide ionic liquids on the micellar properties of cationic gemini surfactant in aqueous solution" ***International Conference on Advances in Chemical Sciences***, 1-3 February, 2018, Shivaji University, Kolhapur, India. **Oral Presentation (Best Oral Award)**
7. Utkarsh U. More and Naved I. Malek*, "Effect of Imidazolium Based Ionic Liquids on the Aggregation Behavior of Twin Tailed Gemini Surfactant in Aqueous Medium" ***10th National Conference on Thermodynamics of pharmaceutical, chemical and biological systems***, 20-21 November, 2015, Panjab University, Chandigarh. **Poster Presentation**
8. Utkarsh U More, Zuber S Vaid, Naved I Malek*, "Interactional and aggregation behaviour of twin tailed aqueous Gemini surfactant in presence of Ionic liquids" ***9th National Conference On Thermodynamics Of Chemical, Biological, Environmental And Non-Conventional Energy Systems***, 17-18 October, 2014, Sardar Patel University, Vallabh Vidyanagar, Gujarat. **Poster Presentation**
9. Utkarsh U. More and Naved I. Malek*, "Modifying Properties of Aqueous 14-6-14,2Br Gemini Surfactants with external Additives: Ionic Liquids 1-

Hexyl-3-methylimidazolium Bromide and 1-Octyl-3-methylimidazolium Bromide at 298.15 K" **31st Annual Conference of Indian Council of Chemists**, 26-28 December, 2012, Saurashtra University, Rajkot, Gujarat. **Poster Presentation**

Conference /Seminars / STTP Attended/National/International

1. One day Seminar on "Recent Advances in Analytical Techniques (RAAT-2011)" on 12th May, 2011, Organized by Department of Applied Chemistry, S. V. National Institute of Technology, Surat.
2. Department of Science and Technology, New Delhi Sponsored National Programme on "Inspire Internship-2011" during 27-31 August, 2011 held at Department of Applied Chemistry, S. V. National Institute of Technology, Surat.
3. National Seminar on "Fundamentals of Spectroscopic Techniques and its Applications in Elucidating Molecular Structures (FSTAEMS-2011)" on 8th October, 2011 Organized by Department of Applied Chemistry, S. V. National Institute of Technology, Surat.
4. Workshop under TEQIP-II on "Nanotechnology Applications for Sustainable Development" during 19-20 April, 2013 Organized by Department of Chemical Engineering, S. V. National Institute of Technology, Surat.
5. TEQIP-II Sponsored One week Short Term Training Programme (STTP) on "Advanced Materials, Characterization and Applications in Materials Science and Engineering (AMCAME-2013)" during 2-6, September, 2013 Organized by Department of Applied Chemistry, S. V. National Institute of Technology, Surat and more

References

1. Dr. Naved I. Malek, Associate Professor, Department of Chemistry, S. V. National Institute of Technology (NIT), Surat-395007, Gujarat, India.

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E-mail ID: gbk_chem@unishivaji.ac.in

Contact No.: +91-9423281085.

3. Prof. K.M. Garadkar, Professor, Department of Chemistry, Shivaji University, Kolhapur-416004, MS, India

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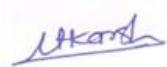
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4. Prof. Dilip H. Dagade, Professor, Department of Chemistry, Shivaji University, Kolhapur-416004, MS, India

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Place: Sangli, M.S. India


Dr. Utkarsh U. More