

CURICULLUM VITAE

Dr. Jaswinder Kaur

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CAREER OBJECTIVE

To Learn & Explore New Knowledge Frontiers and to grow as a Professional, thus contributing my hundred percent to organization I work in and join esteemed organization and to add value and experience to my knowledge database.

ACADEMIC QUALIFICATION

- Matriculation from C.B.S.E. Board in 2014
- 10+2 (NM) from C.B.S.E. Board in 2016
- B.Sc. (Hons.) Chemistry from Eternal University, Baru Sahib in 2019
- M.Sc.(Organic Chemistry) from Eternal University, Baru Sahib in 2021
- Ph.D. Chemistry from Eternal University, Baru Sahib in 2025

PROJECT WORK

- Evaluation of surface active properties and micellization behaviour of imidazolium gemini surfactants (During M.Sc.)
- Evaluation of conductivity, interfacial properties and micellization behaviour of imidazolium gemini surfactants (During Ph.D.)

PROFESSIONAL EXPERIENCE

- ❖ **Teaching Assistant (August, 2022 – September, 2023):** Department of Chemistry, Akal College of Basic Sciences, Eternal University, Baru Sahib, Distt. Sirmaur (H.P.) 173101
- ❖ **Teaching Associate (September, 2023 – Present):** Department of Chemistry, Akal College of Basic Sciences, Eternal University, Baru Sahib, Distt. Sirmaur (H.P.) 173101

COMPUTER KNOWLEDGE

Diploma in **Computer Applications**

Knowledge of software like **Chemdraw, Origin**

PROFESSIONAL DEVELOPMENT

Publications

- ❖ Sharma V, Getahun T, Singh M, **Kaur J**, Thakur N and Kishore K (2023) Electrochemical behavior, antimicrobial activities, and effect of temperature on micellization of imidazolium monomeric surfactants. *Turkish Journal of Chemistry*, **47**(2): 375-385.

- ❖ **Kaur J**, Farzeen R, Kumar A, Singh M, Lal M, Upadhyaya SK and Kishore K (2024) Synthesis, self-assembly and surface-active properties of alkyl halide mediated Imidazolium monomeric Surfactants. *Journal of Dispersion Science and Technology*, **46**(7):1037-1045.
- ❖ **Kaur J**, Farzeen R, Pathania S, Banipal TS, Singh M, Lal M, Thakur N, Upadhyaya SK and Kishore K (2024) Thermodynamics and interfacial properties for self-assembly behaviour of methyl-imidazolium monomeric surfactants. *Chemical Thermodynamics and Thermal Analysis*. **6**: 100146.
- ❖ **Kaur J**, Farzeen R, Banipal TS, Singh M, Lal M, Yadav AN, Negi R, Upadhyaya SK and Kishore K (2024) Appraisal of surface-active properties and micellization behaviour of imidazolium gemini surfactants. *Supramolecular Chemistry*. 1-13.
- ❖ Kishore K, **Kaur J**, Saddeek YB, Sharma M, Singh M, Thakur P, Walia YK, Lal M, Suman, Reddy AS, Aly KA, Albedah, and Sharma P (2025) Efficient Removal of Toxic Dyes from Water Using Mn₃O₄ Nanoparticles: Synthesis, Characterization, and Adsorption Mechanisms. *Journal of Molecular Structure*.**1333**:141756.
- ❖ Farzeen R, **Kaur J**, Banipal TS, Lal M, Yadav AN, Negi R, Kant R, Upadhyaya SK, Thakur N and Kishore K (2025) Synthesis, thermodynamics of self-aggregation, surface-active, and antimicrobial properties of pyrrolidinium surfactants. *Journal of Dispersion Science and Technology*.
- ❖ Farzeen R, **Kaur J**, Palak, Banipal TS, Lal M, Upadhyaya SK, Thakur N and Kishore K (2025) Scrutinizing self-assembly, interfacial properties and antimicrobial behaviour of pyrrolidinium-based monomeric surfactants. *Tenside Surfactants Detergents*.

Book Chapter

- ❖ **Kaur J**, Farzeen R, Singh M, Thakur N, Lal M, Upadhyaya SK, Walia YK and Kishore K (2024) Overview of Surfactants, Properties, Types, and Role in Chemistry. In *Advances in Surfactant Biosensor and Sensor Technologies* (pp. 1-23). Cham: Springer Nature Switzerland.

Abstract Published

- ❖ “Synthesis and characterization of some 4-cyanopyrazole derivatives” in international conference on “Recent Advances in fundamental and Applied Sciences” (RAFAS 2019) held on November 5th-6th, 2019, organized by School of Chemical Engineering and Physical Sciences, **Lovely Professional University, Punjab**.
- ❖ “Removal of synthetic toxic dyes from water samples by using manganese oxide nanoparticles” in International Conference on “Water, Agriculture, Dairy and Food Processing for Sustainable Economy” (WADFPSE-2022) held on March 25th-26th, 2022, organized by University Corporate Resource Centre, **Eternal University, Baru Sahib, Himachal Pradesh**.
- ❖ “Synthesis of alkyl halide mediated pyridinium cationic surfactants” in International Conference on “Emerging Scenario Of Science, Technology and Innovation-2023” (ESSTI-2023) held on

February 24th-25th, 2023, organized by School of Basic and Applied Sciences, **Career Point University, Hamirpur, Himachal Pradesh.**

- ❖ “Synthesis of alkyl halide mediated Imidazole based monomeric Surfactants” in International Conference on “Recent Advances Research on Green and Sustainable Developments” (ICRAGSD-2023) held on September 6th-8th, 2023, organized by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ “Synthesis of alkyl halide facilitated pyrrolidine based surfactant” in International Conference on “Recent Advances Research on Green and Sustainable Developments” (ICRAGSD-2023) held on September 6th-8th, 2023, organized by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ “Synthesis and self-assembly behavior of lower as well as higher alkyl chain based pyridinium surfactants: a comparative study” in International Conference on “Recent Advances Research on Green and Sustainable Developments” (ICRAGSD-2023) held on September 6th -8th, 2023, organized by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ “Self-aggregation and Surface-active properties of Imidazolium Ionic Liquids” in International Conference on “Recent Trends and Innovations For A Greener Future Department of Chemistry” in collaboration with The Indian Science Congress Association (ISCA) Shimla Chapter, organized by **NSCBM Govt. College Hamirpur (H.P.)** on February 9th-10th, 2024.
- ❖ “Appraisal of surface-active properties and micellization behaviour of pyrrolidine-based surfactant in aqueous solvent” in International Conference on “Recent Trends and Innovations For A Greener Future Department of Chemistry” in collaboration with The Indian Science Congress Association (ISCA) Shimla Chapter, organized by **NSCBM Govt. College Hamirpur (H.P.)** on February 9th-10th, 2024.
- ❖ “Synthesis, thermodynamics of micellization and surface tension lowering capacity of imidazolium gemini surfactants” in International Conference on “Recent Advances on Green Catalysis and Drug Discovery” (ICRAGCDD-2024) held on September 4th-6th, 2024, organized by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ “Synthesis, aggregation and surface tension lowering tendency of alkyl halide mediated pyrrolidinium surfactants in International Conference on “Recent Advances on Green Catalysis and Drug Discovery” (ICRAGCDD-2024) held on September 4th-6th, 2024, organised by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ “Synthesis, self-aggregation and surface tension lowering capacity of glycine based surfactants” in International Conference on “Recent Advances on Green Catalysis and Drug Discovery” (ICRAGCDD-2024) held on September 4th-6th, 2024, Organised by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**

- ❖ “Review on ionic liquids: Future of green chemistry” in Multidisciplinary International seminar on “Exploring the Future of Internet of Things (IoT) Technologies” held on 1st and 2nd July, 2025, organised by Taxonomic IT world, Bangalore, Karnataka in association with International Vocational Training and Technology Research Institute Dhanbad, Jharkhand.

Conference attended

- ❖ Attended International Conference on “Recent Advances in fundamental and Applied Sciences” (RAFAS 2019) held on November 5th-6th, 2019, Organized by School of Chemical Engineering and Physical Sciences, **Lovely Professional University, Punjab.**
- ❖ Presented Poster on title “Removal of synthetic toxic dyes from water samples by using manganese oxide nanoparticles” in International Conference on “Water, Agriculture, Dairy and Food Processing for Sustainable Economy” (WADFPSE-2022) held on March 25th-26th, 2022, Organized by University Corporate Resource Centre, **Eternal University, Baru Sahib, Himachal Pradesh.**
- ❖ Given oral presentation on title “Synthesis of alkyl halide mediated pyridinium cationic surfactants” in International Conference on “Emerging Scenario Of Science, Technology and Innovation-2023” (ESSTI-2023) held on February 24th-25th, 2023, Organized by School Of Basic and Applied Sciences, **Career Point University, Hamirpur, Himachal Pradesh.**
- ❖ Given oral presentation on title “Synthesis of alkyl halide mediated Imidazole based monomeric Surfactants” in International Conference on “Recent Advances Research on Green and Sustainable Developments” (ICRAGSD-2023) held on September 6th-8th, 2023, Organised by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ Given oral presentation on title “Imidazolium Surfactants: Potential Applications” in International Seminar on “Current Research in Science and Management for Upliftment of Human Life and Rural Development” organized by **Thakur P.G. College of Education, Dhaliara, Kangra (H.P.)** on October 20th, 2023.
- ❖ Given oral presentation on title “Self-aggregation and Surface-active properties of Imidazolium Ionic Liquids” in International Conference on “Recent Trends and Innovations For A Greener Future Department of Chemistry” in collaboration with The Indian Science Congress Association (ISCA) Shimla Chapter, organized by **NSCBM Govt. College Hamirpur (H.P.)** on February 9th-10th, 2024.
- ❖ Given oral presentation on title “Synthesis, thermodynamics of micellization and surface tension lowering capacity of imidazolium gemini surfactants” in International Conference on “Recent Advances on Green Catalysis and Drug Discovery” (ICRAGCDD-2024) held on September 4th-6th, 2024, Organised by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**
- ❖ Attended International Conference on “Pathways to progress: The strategies’ role of research & innovation in India’s socio-economic development-2025 [P2P:TSRRIISED-2025] held on April 5-6th, 2025 organized by Research & Development Cell and the Institution Innovation Council, in Joint Collaboration with University Corporate Resource Centre, **Eternal University, Baru Sahib, H.P. (India).**

Workshop attended

- ❖ Participated in one day workshop on “*Importance of Intellectual Property Rights in Academia (IIPRA-2021)*” organized by IPR Cell, **Eternal University, Baru Sahib (HP) in association with Himachal Pradesh Patent Information Centre (HPPIC), Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Shimla, (HP)** on March 27, 2021.
- ❖ Participated in one week e- workshop on “Materials and their Characterization” organized by **Department of Physics, Maharaja Agrasen University** on June 14-19, 2021.

Seminar attended

- ❖ Given oral presentation on International Seminar on “Current Research in Science and Management for Upliftment of Human Life and Rural Development” Organized by **Thakur P.G. College of Education, Dhaliara, Kangra (H.P.)** on October 20, 2023.

Awards

- ❖ Got 2nd prize for oral presentation on title “Synthesis of alkyl halide mediated Imidazole based monomeric Surfactants” in International Conference on “Recent Advances Research on Green and Sustainable Developments” (ICRAGSD-2023) held on 6th -8th September, 2023, Organised by Green Chemistry Network Centre Chapter, **Akal University, Talwandi Sabo, Bathinda, Punjab, India.**

PERSONAL DETAILS

Name	Jaswinder Kaur
Father’s Name	Mr. Sukhwinder Singh
Date of Birth	14-02-1998
Sex	Female
Marital status	Single
Languages	English, Hindi, Punjabi
Nationality	Indian

DECLARATION

I declare that information furnished by me is true to the best of my knowledge and belief and that nothing has been concealed.