

CURRICULUM VITAE

Name : Dr. Sangeeta Yadav
Designation : Assistant Professor (Contract)
Specialization : Physical Chemistry
Teaching Experience : 6 Years
Title of Thesis : Effect of Various Additives on Aggregation behaviour of Surface – Active Ionic Liquids in Aqueous Media
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Assignments with M. D. University Rohtak:

1. Worked as Co-coordinator in one-week workshop on “**Employability Enhancement Skills Program**” organized by **Chemistry Department and CCPC (Feb 2025)**.
2. Worked as organizing member in one-week workshop on “**Research Methodology**” organized by **CRSIS & EC, MDU (2025)**.
3. Worked as Organizer in International Conference on “**Emerging Trends in Functional Materials in Sciences (ETFMS- Nov.2024)**”.
4. Worked as **Curriculum Developer** of **UG and PG programs of M.D. University under NEP framework 2020**.

Publications:

1. Amalendu Pal, **Sangeeta Yadav**, Binding interaction between 1-octyl-3-methylimidazolium bromide and sodium polystyrene sulfonate in aqueous solution, **Fluid Phase Equilibria** 412 (2016) 71–78.
2. Amalendu Pal, **Sangeeta Yadav**, Influence of salt on interactions between imidazolium based ionic liquid [C₁₂mim][Br] and anionic polyelectrolyte poly(sodium-4-styrenesulfonate), **Journal of Molecular Liquids** 229 (2017) 309–318.

3. Amalendu Pal, **Sangeeta Yadav**, Effect of a copolymer poly(4-styrenesulfonic acid-co-maleic acid) sodium salt on aggregation behavior of imidazolium based surface active ionic liquid in aqueous solution, **Journal of Molecular Liquids** 246 (2017) 342–349.
4. Amalendu Pal, **Sangeeta Yadav**, Effect of anionic polyelectrolyte sodium carboxymethylcellulose on the aggregation behavior of surface active ionic liquids in aqueous solution, **Journal of Molecular Liquids** 241 (2017) 584–594.
5. Amalendu Pal, **Sangeeta Yadav**, Effect of cationic polyelectrolyte poly(diallyldimethylammonium chloride) on micellization behavior of anionic surface active ionic liquid 1-butyl-3-methylimidazolium dodecylsulfate [C₄mim][C₁₂SO₄] in aqueous solutions, **Colloid and Polymer Science** 296 (2018) 1635–1650.
6. Amalendu Pal, **Sangeeta Yadav**, Effect of a copolymer poly(4-styrenesulfonic acid-co-maleic acid) sodium salt on aggregation behavior of surface active ionic liquid 1-tetradecyl-3-methylimidazolium bromide and structurally similar conventional surfactant tetradecyltrimethylammonium bromide in aqueous media, **Journal of Dispersion Science and Technology** (2018) In Press, 10.1080/01932691.2018.1472006.
7. Amalendu Pal, **Sangeeta Yadav**, Investigation of physicochemical properties between poly(ethylene glycol)/ poly(vinylpyrrolidone) and 1-butyl-3-methylimidazolium dodecyl sulfate in aqueous solution, **Chemical Physics Letters** 714 (2019) 45-52.
8. Amalendu Pal, **Sangeeta Yadav**, Thermodynamic and surface properties of aqueous 1-dodecyl-3-methylimidazolium chloride [C₁₂mim][Cl] solution in the presence of a series of inorganic salts, **Journal of Surfactants and Detergents** 23 (2020) 53-65.
9. **Sangeeta Yadav**, Sunil Kumar, Veena Vishwakarma, Bharti Yadav, Ranjan Gupta, Neeraj Aggarwal and Anita Yadav. A review on toxicological hazards of p-phenylenediamines: a primary ingredient of hair dye and potential biomarker-based risk assessment, **Natural Volatiles & Essential Oils** 8 (6) (2021) 754-781.
10. **Sangeeta Yadav**, Sunil Kumar, Priyanka Rao, Advancements in carboxymethyl cellulose applications in food industry and wastewater treatment, **European Chemical Bulletin** 12 (2023) 1637 – 1646.

11. **Sangeeta Yadav**, Sunil Kumar, Recent advancements in biomedical applications of carboxymethyl cellulose, **Educational Administration: Theory and Practice** 29 (2023)1448-1455.
12. Amalendu Pal, **Sangeeta Yadav**, Exploration of diverse interactions of nonionic poly(vinylpyrrolidone) (PVP) and anionic sodium carboxymethylcellulose (NaCMC) polymers in aqueous imidazolium-based surface active ionic liquid solutions, **Journal of Ionic Liquids** 4(2) (2024) 100106.

Paper presented in Conference/ Seminar/ Workshop:

1. Amalendu Pal, **Sangeeta Yadav**, “Interaction between long chain surface active ionic liquid 1-octyl-3-methyl-imidazolium bromide and anionic polyelectrolyte poly(sodium-4-styrene sulfonate)” presented at **51st Annual Convention of Chemists**, held at the Department of Chemistry, **Kurukshetra University, Kurukshetra, December 9-12, 2014.**
2. Participated in one day workshop on “**Ancient Indian Scientific Heritage (AISH-2014)**” organized by the Department of A.I.H., Cul. & Arch., **Kurukshetra University, Kurukshetra and Vigyan Bharti, Haryana** held on **November 11, 2014.**
3. Amalendu Pal, **Sangeeta Yadav**, “Binding interaction between polyelectrolyte and long chain surface active ionic liquid carrying opposite charge” presented at **17th International Conference of International Academy of Physical Sciences**, held at the **University of Rajasthan, Jaipur, January 16-18, 2015.**
4. Amalendu Pal, **Sangeeta Yadav**, “Salt effect on interaction between surface - active ionic liquid [C₁₂mim][Br] and anionic polyelectrolyte poly(sodium-4-styrenesulfonate)” presented at **4th National Conference on Recent Advances in Chemical and Environmental Sciences**, held at the Department of Chemistry, **Arya P.G. College, Panipat, Haryana, February 27-28, 2015.**
5. Amalendu Pal, **Sangeeta Yadav**, “Tensiometric and spectroscopic study of complex formation between cationic ionic liquid [C₁₂mim][Br] and anionic polyelectrolyte(PSSA-co-MA)” presented at **10th National Conference Thermodynamics of Pharmaceutical, Chemical and Biological Systems** held at the

University Institute of Pharmaceutical Sciences & Department of Chemistry, **Panjab University, Chandigarh, November 21-22, 2015.**

6. Participated in the international workshop on “**Amphiphilic Molecules and Self-Assembly: Principles and Applications**” organized by **Panjab University, Chandigarh and Global initiative for Academic Networks (GiAN) under MHRD** held on **March 22-28, 2016.**
7. Amalendu Pal, **Sangeeta Yadav**, “Effect of anionic Polyelectrolyte on aggregation behaviour of imidazolium based ionic liquid” presented at **7th conference of The Indian Science Congress Association (HARIDWAR CHAPTER) on Science & Technology for National Development**, presented at the Department of Chemistry, **Gurukula Kangri Vishwavidyalaya, Haridwar, November 20-22, 2016.**
8. Amalendu Pal, **Sangeeta Yadav**, “Complex formation between anionic surface active ionic liquid and cationic polyelectrolyte in aqueous solution” presented at **2nd international conference on Innovation in Chemical, Biological & Environmental Science**, held at the Department of Chemistry, **Arya P.G. College, Panipat, Haryana, February 27-28, 2019.**
9. Amalendu Pal, **Sangeeta Yadav**, “Complexation between poly(diallyldimethylammonium chloride) and 1-butyl-3-methylimidazolium dodecylsulfate in aqueous solution” presented at **Ist International conference of Indian Science Congress Association – Rohtak Chapter on “Science & Technology : Rural Development”**, held at Department of Chemistry, **Maharshi Dayanand University, Rohtak, March 4-5, 2020.**
10. **Sangeeta Yadav**, Amalendu Pal “Investigating Complex Formation Between Anionic Surface - Active Ionic Liquid and Cationic Polyelectrolyte Aqueous in Solution” presented at **International Conference on Emerging Trends in Functional Materials in Sciences**”, held at Department of Chemistry, **Maharshi Dayanand University, Rohtak, November 21-22, 2024.**

Educational Qualifications:

Degree	Year of Passing	University/Institute
Ph. D	2019	Kurukshetra University, Kurukshetra
NET	2012	UGC/CSIR
M. Sc.	2011	Kurukshetra University, Kurukshetra
B. Sc.	2009	Maharshi Dayanand University, Rohtak

