

Appendices

***Publications, Conferences,
Workshops and Biographies***

List of Publications

1. **Vaishali Saini**, Rangan Krishnan and Bharti Khungar, “Exploration of Fluorescence Behavior of Imidazolium-based Chemosensor in Solution and Solid-state and its Turn-on Response for Al³⁺ in Pure Aqueous Medium” *Photochemical & Photobiological Sciences*, **2020**, 19, 931-942.
2. **Vaishali Saini**, Aman Gupta, Krishnan Rangan and Bharti Khungar, “A Selective Turn-off Fluorescence Detection of Nitroexplosive 2,4,6-Trinitrophenol by Pyridinium-based Chemosensor in Pure Aqueous Medium” *Dyes and Pigments*, **2020**, 180, 108447-108455.
3. **Vaishali Saini** and Bharti Khungar, “Recyclable imidazolium ion-tagged nickel catalyst for microwave-assisted C-S cross-coupling in water using sulfonyl hydrazide as the sulfur source” *New Journal of Chemistry*, **2018**, 42, 12796-1280.
4. Pankaj Nehra, Bharti Khungar, Rajneesh P. Singh, S.C. Sivasubramanian, Prabhat N. Jha and **Vaishali Saini**, “Synthesis, characterization and applications of imidazolium ionic liquid-tagged zinc (II) complex” *Inorganica Chimica Acta*, **2018**, 478, 260-267.
5. **Vaishali Saini**, Vimal Kumar Madduluri, Krishnan Rangan and Bharti Khungar, “Abnormal NHC/CNN Pincer Palladium(II) Complex: Synthesis, Characterization and Application in Microwave-assisted Suzuki-Miyaura Coupling of Aryl Chlorides in Water” (Manuscript under preparation)

List of National/International Conferences and Workshops

Poster Presentation:

1. **Vaishali Saini**, Vimal K. Madduluri, Krishnan Rangan and Bharti Khungar “Microwave-assisted Suzuki Cross-coupling Reaction by Palladium Abnormal N-heterocyclic carbene Complex in Water” International Conference on Frontiers at the Chemistry-Allied Science Interface (FCASI-2018), Department of Chemistry, University of Rajasthan, Jaipur, India, December 21-22, 2018.
2. **Vaishali Saini**, Pankaj Nehra and Bharti Khungar “Recyclable Ion Tagged Nickel Catalyst for Microwave Assisted Synthesis of Aryl sulfides Using Water as a Solvent Media” International Conference on Nano and Functional Materials (NFM 2017), Organized by Department of Chemistry, BITS Pilani Campus, India, November 16-18, 2017.
3. **Vaishali Saini**, Pankaj Nehra and Bharti Khungar, “Design of Schiff-base Functionalized Imidazolium Ionic Liquid Fluorescent Sensor for Al³⁺ ion” 23rd Indian Society of Chemist and Biologist International Conference (ISCB-2017), SRM University, Chennai, India, February 8-10, 2017.
4. **Vaishali**, Pankaj Nehra and Bharti Khungar, “Ionic Liquid Functionalized Metal Salen Complex: Synthesis, Characterization and Application” International Conference on Nascent Developments in Chemical Science-opportunities for Academia Industry Collaboration (NDCS-2015), Organized by Department of Chemistry, BITS Pilani Campus, India, October 16-18, 2015.

Workshops:

1. Attended, “Software and Applications of Single Crystal X-ray Diffraction” organized by Department of Chemistry, Smt. S. S. Patel Nootan Science & commerce college, Visnagar, 29-31 August 2018.
2. Attended the Q-CHEM users’s workshop, organized by Department of Chemistry, Birla institute of Technology and Science, Pilani Pilani Campus in 19 October-2015.
3. Attended “Basic Aspects of Quantum and Theoretical Chemistry and Applications (BAQTCA)”, organized by Government College Tonk in collaboration with Poornima University Jaipur, 17-21 August-2015.

Brief Biography of the Candidate

Vaishali Saini was born in Pilani, India. She obtained her B.Sc. Degree (Physics, Chemistry and Mathematics) in 2011. She obtained her M.Sc. degree (Organic Chemistry) in 2013 from University of Rajasthan, Jaipur, Rajasthan. In February 2014, she joined as Project Fellow in UGC project at Department of Chemistry, BITS Pilani, Pilani Campus under the guidance of Dr. Bharti Khungar. Later, in August 2014 she cleared the Ph.D. entrance exam and joined as a Ph.D. research scholar. During the tenure of Ph.D. programme, she was actively involved in the synthesis of imidazolium- and pyridinium-based metal complexes for catalytic applications. In addition, she has also developed imidazolium- and pyridinium-based chemosensors that were found to be selective for toxic metal ions and explosive nitroaromatics. To the date she has published four research paper in the peer-reviewed international journals and presented research works in various national and international conferences in form of poster.

Her research interest lies in the development of new metal catalysts and chemosensors based on imidazolium- and pyridinium-based moieties to perform different organic transformation and chemosensory applications in pure aqueous medium.

Brief Biography of the Supervisor

Dr. Bharti Khungar is an Associate Professor at the Department of Chemistry, BITS Pilani, Pilani Campus. She carried out her doctoral research in Chemistry from the Department of Chemistry, University of Rajasthan, Jaipur and obtained the Ph.D. degree in 2002. After this, she worked as a Lecturer in the Department of Chemistry, Laxmi Devi Institute of Engineering and Technology, Alwar, Rajasthan till 2005. Before joining BITS, she worked at the post of Senior Lecturer at Banasthali University, Rajasthan for two years.

Her research interests lie in the area of inorganic and green chemistry with special focus on the synthesis of transition metal complexes as catalysts for carrying out simple organic transformation, and screening their biological applications. Another recent area of her interest is to develop imidazolium-and pyridinium-based compounds for the chemosensory applications in pure aqueous medium. She is the author of more than twenty publications in international journals of repute and has participated in more than thirty national and international conferences. She is the recipient of Summer Research Fellowship for Teachers from Academies' of Science, India 2013 and 2014 and executed research work at Bhabha Atomic Research Centre, Mumbai. She was selected for the University Immersion Abroad Scheme of BITS Pilani, 2016 and worked at Chapman University, Irvine, California, USA. She has successfully executed two sponsored projects funded by DST and UGC, India.



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