

**FACULTY PROFILE****BASIC PROFILE****DR. SUMAN SAMAI****Assistant Professor****Dept. of Chemistry**

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Academic Qualification: M.Sc; Ph.D (IITKgp)

**SERVICE HISTORY**

Year of Joining	:	2017
Previous Employment, if any	:	Assistant Professor and HOD, Dept. of Chemistry, Indus International University, Una, Himachal Pradesh (Sep 2015 to July 2016). Assistant Professor, Dept. of Chemistry, Akal University, Talwandi Sabo, Bathinda, Punjab (July 2016 to May 2017).
Experience in Teaching	:	UG: 2 yr PG: 2 yr

Area of Teaching: Organic Chemistry, Solid State Chemistry, Supramolecular Chemistry, Physical Chemistry.**Area of Specialization:** Organic Chemistry, Supramolecular Chemistry.**Participation in Administrative activities:****RESEARCH PROFILE****Area of Research Interest:** Supramolecular Chemistry, Functional Materials, Soft Materials, Supramolecular Gel, Hybrid Material.

Research Experience	Post-doctoral fellow, Department of Chemistry, Georgetown University, Washington DC, USA (Oct 2012 to Feb 2014). Post-doctoral fellow, Smart Hybrid Materials Lab, Advanced Membranes and Porous Materials Center (AMPM), King Abdullah University of Science and Technology (KAUST) (Sep 2014 to Aug 2015).
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Conference/Seminar/Workshop Organised:**Projects ongoing / completed:**

Title	Funding Agency	Year	Amount (Rs.)

Fellowship (s) / Award (s): Junior Research Fellowship (JRF) in Joint CSIR-UGC National Eligibility Test (NET-December 2006).Qualified All India Graduate Aptitude Test in Engineering (**GATE**) Examination in Chemical Science held on 2007.Awarded Best Poster Prize by RSC Advances (<http://blogs.rsc.org/ra/2011/07/14/rsc-advances-poster-prize-winners/>)**Involvement in other research activities:****Supervisor:****Adjudicator:****Reviewer:****Involvement in Academic/ Professional Organizations:****Editorial Board Member:**



Publications: 8	
Books :	
Edited Books:	
Chapters in Books :	
Journals:	
<ol style="list-style-type: none">1. Suman Samai, Kumar Biradha, <i>Halogen...halogen interactions in assembling β-sheets into 2D layers in the bis-(4-halo-phenylamido)alkanes and their co-crystals via inter-halogen interactions.</i>, Cryst. Eng. Comm., 11, 482–492, 2009.2. Kumar Biradha, Suman Samai, Annada C. Maity, Shyamaprosad Goswami, <i>Supramolecular Assembly of Protonated Xanthine Alkaloids in Their Perchlorate Salts</i>, Cryst. Growth Des., 10, 937–942, 2010.3. Suman Samai; Joykrishna Dey, Kumar Biradha, <i>Amino acid based low-molecular-weight tris(bis-amido) organogelators</i>, Soft Matter, 7, 2121–2126, 2011.4. Suman Samai, Kumar Biradha, <i>Coordination Polymers of Flexible bis(benzimidazole) Ligand: Halogen Bridging and Metal...Arene Interaction</i>. Cryst. Growth.Des., 11, 5723–5732, 2011.5. Suman Samai, Kumar Biradha, <i>Chemical and Mechano Responsive Metal Organic Gels of bis(benzimidazole) Based Ligands with Cd(II) and Cu(II) Halide Salts: Self Sustainability, Gas and Dye Sorptions</i>, Chem. Mater., 24, 1165–1173, 2012.6. Suman Samai, Prabir Ghosh, Kumar Biradha, <i>Does crystal or gel matter to stereochemistry of a reaction? Silver complexation-promoted solid-state [2+2] reaction of an unsymmetrical olefin</i>, Chem. Commun., 49, 4181–4183, 2013.7. Suman Samai, Christos Sapsanis, Sachin P. Patil, Alaa Ezzeddine, Basem A. Moosa, Hesham Omran, Abdul-Hamid Emwas, Khaled N. Salama, Niveen M. Khashab, <i>Light Responsive Two-Component Supramolecular Hydrogel: A Sensitive Platform for Humidity Sensors</i>, Soft Matter, 12, 2842-2845, 2016.8. Ajay Mallia, Suman Samai and Richard G. Weiss, <i>Cholesterol and Dihydrocholesterol are Simple Steroidal Molecular Gelators: How One Double Bond Controls the Structure and Mechanotropic Properties of Their Gels</i>, <i>ChemistrySelect</i>, 1, 4965–4972, 2016.	
Conf. Proceedings:	
<ol style="list-style-type: none">1. Suman Samai, Lalit Rajput, KumarBiradha: Supramolecular Gels/Porous solids through Crystal Engineering approach (Poster Presentation). International Symposium on Facets of Weak Interactions in Chemistry at Department of Chemistry, University of Calcutta, India, January 13-15, 2011.2. Suman Samai, Lalit Rajput, KumarBiradha: Supramolecular Self-Assembly: The Formation Of Organogel And Porous Solids (Poster Presentation). XX International Conference on the Chemistry of the Organic Solid State (ICCOSS-XX), IISc Bangalore, India, June 25-30, 2011. <input type="checkbox"/> <input type="checkbox"/> Awarded Best Poster Prize by RSC <i>Advances</i>. (http://blogs.rsc.org/ra/2011/07/14/rsc-advances-poster-prize-winners/)3. Participated in 3rd DST-SERC Summer School on Solid State and Materials Chemistry at Solid State and Structural Chemistry Unit, IISc Bangalore, June 17 to July 07, 2010.4. Oral presentation in Departmental 3rd Research Scholars' Day held on 4th April 2012. Title of the talk: Supramolecular Metal Organic Gels: Self-Sustainability, Gas and Dye Sorption5. Oral presentation in the 10th Mid-Atlantic Soft Matter workshop (MASM), January 11, 2013 held at Georgetown University, Washington DC, USA. Title of the Talk: Does crystal or gel matter to stereochemistry of a reaction? Silver complexation-promoted solid-state [2+2] reaction of an unsymmetrical olefin.6. Participated in Recent Developments in Advanced Membranes and Porous Materials for Energy, Environment and Water Applications, KAUST, Saudi Arabia, February 23-25, 2015.	
Any other relevant information	:

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