Partha Sarathi Mukherjee

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Present position: Professor, Inorganic & Physical Chemistry Dept., Indian Institute of Science, Bangalore

Research fields: Supramolecular nanomaterials, Organic nanomaterials, Molecular sensors, Catalysis in nanocages.

Summary:

- 20 years inorganic chemistry research in academia
- 15 years teaching experience in chemistry at honours/PG level
- Co-author of 175 publications in peer-reviewed journals

Educational Qualifications:

* **09/1998–01/2002** Doctor of Philosophy (Chemistry), Indian Association for the Cultivation of Science, Kolkata, India. ***Thesis title***: "*Synthesis, crystal structure and low temperature magnetic behaviour of Cu(II) polynuclear complexes of amines and their derivatives using different bridging ligands*". Supervisor: **Prof. Nirmalendu Ray Chaudhuri**
* **1996-1998** Master of Science with specialization in **Inorganic Chemistry** (class 1), Jadavpur University, Kolkata, India.
* **1992-1995** Bachelor of Science (Honours in Chemistry, class 1), The University of Burdwan, India.

Awards and Fellowships:

***2018**	Invited to join the Editorial Advisory Board of *Inorganica Chimica Acta*, a journal published by the *Elsevier*.
***2018**	Selected for Deshpande National Award
***2016**	*Shanti Swarup Bhatnagar* Prize in Chemical Sciences for the year 2016
***2016**	Editorial Advisory Board Member of "*Inorganic Chemistry Frontiers*", a journal published by the Royal Society of Chemistry (U. K.)
***2016**	Associate Editor, *Inorganic Chemistry* (ACS-Journal).
***2015**	Member of Editorial Advisory Board of "*Inorganic Chemistry*" (a journal published by the American Chemical Society)
***2016**	Chemical Research Society of India Bronze Medal
***2014**	Fellow, Royal Society of Chemistry (FRSC)
***2014**	Member of the Editorial board of Scientific Reports, a journal of the Nature publishing group
***2014**	JSPS visiting scientist, University of Kyoto (October-November, 2014)
***2014**	AvH visiting scientist at the University of Heidelberg (May-July 2014)
***2012**	Swarnajayanti Fellowship in Chemical Sciences from the Govt. of India
***2012**	NASI-SCOPUS Young Scientist Award-2011 in Chemistry
***2011**	Young Affiliate Fellowship of the World Academy of Science (TWAS), Trieste
***2010**	Visiting Professorship from Ulsan University, Korea for two months
***2009**	IUPAC Young Scientist award
***2008**	Microsoft Research (MSR) India Outstanding Young Faculty Award

* **2008**	Indian National Science Academy Medal for the Young Scientists
* **2007**	Young Associate of the Indian Academy of Sciences, Bangalore
* **2004**	Alexander von Humboldt Fellowship, Bonn, Germany.
* **2004**	Marie-Curie International Fellowship (selected).
* **1997**	National Merit Scholarship for the performance at undergraduate level.

Awards by group members:

1) A poster on "functional discrete supramolecules" by S. Shanmugamraju and P. S. Mukherjee was selected for poster award in 13th CRSI annual meeting held in Bhuvaneswar, Feb 2011.
2) A poster by A. K. Bar and P. S. Mukherjee on "Self-sorting in coordination self-assembly" was selected for poster award in an international conference "Frontiers in inorganic chemistry" held in Kolkata, Dec 2010.
3) A poster by A. K. Bar and P. S. Mukherjee on "Porphyrin functionalized molecular barrels" was selected for best poster award in the annual meeting of CRSI, India, in Feb 2009.
4) A poster by K. C. Mondal and P. S. Mukherjee on "Mn_9 single molecule magnets" was selected for best poster award in "Modern Trends in Inorganic Chemistry conference" held in Dec 2007 at IIT-Chennai.
5) A poster on "Covalent marriage of two interlocked molecular cages and their easy separation" was selected for best prize in an international conference on Molecules and materials held in Calcutta, December 2014.
6) Dr. Shanmugaraju received best thesis award of IPC department (IISc) in 2013.
7) Dr. Aniket Chaudhury was selected by SERB for attending Nobel Laureates' meeting in Lindau (Germany)-2017.
8) Sushobhan Ghsoh, Arun Bar, S. Shanmugaraju were selected for Newton international fellowship. Dr. Anbu and Dr. Indranil Sinha were selected for Marie-Curie fellowship. Dipak Samanta received SPM fellowship. Sushobhan Ghosh was selected for Humboldt Fellowship

9) Prodip Howlader and Bappaditya Gole were selected for Bristol-Myers Squibb fellowship.

Work Experience:

*** 3/2016-present:** Professor, Inorganic & Physical Chemistry Dept., Indian Institute of Science, Bangalore-560012.

***3/2010-2/2016:** Associate Professor, Inorganic &Physical Chemistry Dept., Indian Institute of Science, Bangalore-560012.

*** 7/2005-2/2010:** Assistant Professor, Inorganic &Physical Chemistry Dept., Indian Institute of Science, Bangalore-560012.

* **2004-2005:** **Alexander von Humboldt Fellow** at the Institute of Inorganic Chemistry, University of Goettingen, Germany. **(Host: Prof. Herbert W. Roesky**). Main group chemistry.

* **2003-/2004:** Post-doctoral Fellow, Department of Chemistry, University of Utah, USA. Supervisor: **Prof. Peter J. Stang.** Supramolecular chemistry and crystal engineering.

*** 09/1998-12/2002:** Research student, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata, India (Supervisor: **Prof. N. Ray Chaudhuri**).

Teaching: Taught Inorganic Chemistry-1 during 2005-08 and Inorganic Chemistry Lab course during 2009-12 for Int. PhD students. Teaching inorganic chemistry for 4-yr BS (UG) students since 2013.

Students mentored: Fifteen (15) students have completed Ph.D. and nine students are currently working for Ph.D. Mentored 19 postdocs. Six students have received MS degree from IISc working with me. Supervised seven external M.Sc. students and a M.Phil student for their M.Sc and M.Phil theses, respectively. Nine Ph.D. students and four postdoctoral fellows are working under my direct guidance. Supervised 41 short-term students/teachers in last few years.

Complete list of publications

(141 Papers from the top are from Indian Institute of Science, Bangalore)

Citation Data: Total Citations: **9,602**; Average Citations per paper: **54.87**; Average Citations per Year: **503.00**

h-index: 56

Summary of publications:

A) *American Chemical Society's journals:* **Total publications: 65 (IC-34, JOC-5, JACS-12, Orgmet-7, Chem. Rev. 1, Acc. Chem. Res. 1, Cryst Growth & Des. 3, ACS Omega 1, ACS Catalysis: 1)**

B) *Royal Society's journals:* **Total publications: 54 (Chem. Sci. 1, ChemComm: 20, Dalton Trans: 25, NJC: 3, J. Mater. Chem: 1, RSC Adv.: 2, Cryst Engg Comm. 1, OBC: 1)**

C) *Elsevier's journals:* **Total Publications: 19 (ICActa: 10, IC Comm: 3, Tet. Lett: 1, Polyhedron: 4, J. Orgmet. Chem: 1)**

D) *Willey's journals:* **Total Publications: 27 (Angew Chem: 3, Chem. Eur. J: 19, Eur J IC: 3, ChemPlusChem: 1; Israel J. Chem: 1)**

E) *Indian Journals:* **Total Publications: 05 (Ind. J. Chem: 03, J. Chem. Sci. 1, PNAS India: 1)**

F) *Other journals:* **Total publications: 05**

	Authors	Title	Journal
175	I. A. Bhat, E. Zangrando, **P. S. Mukherjee**	Coordination-Driven Self-Assembly of Discrete Molecular Nanotubular Architectures	***Inorg. Chem.* 2019,** *58*, 11172.
174	K. Acharyya, S. Bhattacharyya, H. Sepehrpour, S. Chakraborty, S. Lu, B. Shi. X. Li, **P. S. Mukherjee** and P. J. Stang	Self-Assembled Fluorescent Pt(II) Metallacycles as Artificial Light-Harvesting Systems	***J. Am. Chem. Soc.* 2019**, DOI:10.1021/jacs.9b08403
173	P. P. Chowdhury, S.	Linkage induced enhancement	***Chem. Commun.***

	Bhattacharyya, M. Maity, S. Mukhopadhyay, P. Howlader, **P. S. Mukherjee**	in fluorescence in metal-carbene bond directed metallacycles and cages	***2019,*** *55,* 8309.
172	R. Modak, B. Mondal, P. Howlader, **P. S. Mukherjee**	Self-assembly of a "Cationic-Cage" via formation of Ag-carbene bonds followed by imine condensation	***Chem. Commun. 2019,*** *55,* 6711 - 6714
171	R. Saha, A. Devaraj, S. Bhattacharya, S. Das, E. Zangrando, **P. S. Mukherjee**	Unusual behavior of Donor-Acceptor Stenhouse Adducts in Confined Space of a Pd(II) Molecular Vessel	***J. Am. Chem. Soc.*** **2019,** *141*, 8638.
170	A. Kumar, E. Zangrando and **P. S. Mukherjee**	Self-assembled Pd_3L_2 cages having flexible tri-imidazole donors	***Polyhedron,*** **2019, DOI:** https://doi.org/10.1016/j.poly.2019.03.014 (Invited article)
169	K. Acharyya, **P. S. Mukherjee**	Organic Imine Cages: Molecular Marriage and Applications	***Angew Chem. Int. Ed.*** **2019,***58,* 8640.
168	S. Bhattacharyya, A. Chowdhury, R. Saha, **P. S. Mukherjee**	Multifunctional Self-Assembled Macrocycles with Enhanced Emission and Reversible Photochromic Behaviour	***Inorg. Chem.*** **2019,** *58*, 3968.
167	M. Siddiqui, R. Saha, **P. S. Mukherjee**	Ruthenium(II) Metalla[2]Catenanes and Macrocycles via Donor-Dependent Self-Assembly	***Inorg. Chem.*** **2019,** *58*, 4491.
166	T. Prakasam, A. Devaraj, R. Saha, M. Lusi, J. Brandel, D. Esteban-Gómez, C. Platas-Iglesias, M. A. Olson,**P S. Mukherjee** and A. Trabolsi	Metal-Organic Trefoil Knots for C-Br Activation	***ACS Catalysis,*** **2019,** *9,* 1709.
165	P. Howlader and **P. S. Mukherjee**	Solvent directed synthesis of molecular cage and MOF of Cu(II) paddlewheel cluster	***Israel J. Chem. 2019,*** *59,* 292. ***(Invited contribution in honor of Prof. M. Fujita's Wolf Prize)***
164	P. Das, A. Kumar,	Aggregation Induced Emission	***ACS Omega*****, 2018,** *3,*

	A. Chowdhury, **P. S. Mukherjee**	and White Light Emission from a Combination of π-Conjugated Donor-Acceptor Organic Luminogens	13757. **(Invited article)**
163	B. Mondal, **P. S. Mukherjee**	Cage Encapsulated Gold Nanoparticles as Heterogeneous Photocatalyst for Facile and Selective Reduction of Nitroarenes to Azo compounds	***J. Am. Chem. Soc. 2018,*** *140,* 12592.
162	M. Maity, P. Howlader, **P. S. Mukherjee**	Coordination-Driven Self-Assembly of Cyclopentadienyl Capped Heterometallic Zr−Pd Cages	***Cryst. Growth & Des., 2018,*** *18,* 6956.
161	A. Aderonke, **P. S. Mukherjee**	Coordination self-assembly of discrete Pt-Ru prismatic cages	***Biel. J. Org. Chem.*** **2018,** *14*, 2242.
160	A. Aderonke, A. Shettar, A. A. Bhat, P. Kondaiah**, P. S. Mukherjee**	Coordination self-assembly of Ru(II) architectures: Synthesis, characterization and cytotoxicity studies	***Dalton Trans. 2018,*** *47*, 8466
159	A. Bhat, A. Devaraj, E. Zangrando, **P. S. Mukherjee**	A Discrete Self-Assembled Pd_{12} Triangular Orthobicupola Cage and its Use for Intramolecular Cycloaddition	***Chem. Eur. J.*** **2018,** 23*,* 13938.
158	P. Howlader, B. Mondal, P. P. Chowdhury, E. Zangrando, **P. S. Mukherjee**	Self-assembled molecular barrels as containers for transient merocyanine and reverse photochromism	***J. Am. Chem. Soc. 2018,*** *140,* 7952.
157	R. Saha, A. K. Ghosh, R. Samajder, **P. S. Mukherjee**	Self-assembled molecular spheroids and their proton conduction	***Inorg. Chem. 2018*** *57,* 6540.
156	I. Sinha and **P. S. Mukherjee**	Chemical Transformations in Confined Space of Coordination Architectures	***Inorg. Chem. 2018,*** *57*, 4205 (Invited Viewpoint article)
155	I. A. Bhat, A. Devaraj, P. Howlader and **P. S. Mukherjee**	A chiral Pt_{12} tetrahedral cage and its use in catalytic Michael addition reaction	***Chem.Commun. 2018*** *54,* 4814
154	B. Roy, A. Devaraj, R. Saha, S. Jharimune, K. W. Chi, **P. S. Mukherjee**	Catalytic intramolecular cycloaddition reaction using a discrete molecular architecture	***Chem. Eur. J.*** **2017,** *23,* 15704.

153	P. Das, A. Kumar, P. Howlader, **P. S. Mukherjee**	A self-assembled trigonal molecular prismatic molecular vessel for catalytic dehydration reactions	***Chem. Eur. J.* 2017***, 23*, 12565
152	B. Mondal, A. K. Ghosh, **P. S. Mukherjee**	Reversible Multistimuli Switching of a Spiropyran Functionalized Organic Cage in Solid and Solution	***J. Org. Chem*. 2017,** *82,* 7783.
151	R. Saha, D. Samanta, A. J. Bhattacharyya, **P. S. Mukherjee**	Stepwise construction of self-assembled heterometallic cages showing high proton conductivity	***Chem. Eur. J.* 2017***, 23*, 8980.
150	I. A. Bhat, R. Jain, M. Siddiqui, D. Saini, **P. S. Mukherjee**	Water-soluble Pd8L4 self-assembled molecular barrel as an aqueous carrier for hydrophobic curcumin	***Inorg. Chem.* 2017,** *56,* 5352.
149	B. Roy, R. Saha, A. K. Ghosh, Y. Patil, **P. S. Mukherjee**	Versatility of diimidazole building blocks in coordination self-assembly	***Inorg. Chem.* 2017***, 56,* 3579
148	K. Acharyya, A. Chowdhury, B. Mondal, S. Chakraborty, **P. S. Mukherjee**	Building block dependent morphology modulation of cage nanoparticles and detection of nitroaromatics	***Chem. Eur. J.* 2017,** *23,* 8482.
147	S. Dasgupta and **P. S. Mukherjee**	Carboxylatopillar[n]arenes: A versatile class of water soluble synthetic receptors	***Org. Biomol. Chem. 2017,*** *15*, 762.
146	A. A. Ademeyo, A. Shettar, I. A. Bhat, P. Kondaiah, **P. S. Mukherkjee**	Self-assembly of discrete Ru8 molecular cages and their in-vitro anticancer study	***Inorg. Chem.* 2017,** *56, 608*
145	Chowdhury and **P. S. Mukherjee**	Vinylanthracene based compounds as electron rich sensors for explosives recognition	***ChemPlusChem.*** **2016,** 82, 1360.
144	P. Howlader and **P. S. Mukherjee**	Face and edge directed self-assembly Pd_{12} tetrahedral nanocages and their self-sorting	***Chem. Sci.*** **2016**, *7*, 5893.
143	A. Chowdhury, P. Howlader, **P. S. Mukherjee**	Aggregation induced emission of Pt(II) metallacycles and their nitroaromatics detection	***Chem. Eur. J.*** **2016**, *22*, 7486.
142	B. Roy, E. Zangrando, **P. S. Mukherjee**	Self-assembly of a redox active water soluble Pd_6 “Molecular Dice”	***Chem. Commun.*** **2016,** 4489.
141	B. Gole, U. Sanyal,	High loading of Pd	***Inorg. Chem.* 2016,** *55,*

	R. Banerjee, **P. S. Mukherjee**	nanoparticles by interior functionalization of molecular pockets for heterogeneous catalysis	2345.
140	P. Howlader, P. Das, E. Zangrando, **P. S. Mukherjee**	Urea functionalized self-assembled molecular prism for heterogeneous catalysis in water	***J. Am. Chem. Soc.*** **2016,** *138***,** 1668.
139	D. Samanta, A. Chowdhury, **P. S. Mukherjee**	Covalent Post-Assembly Modification and Water-Adsorption of Pd_3 Self-Assembled Trinuclear Barrels	***Inorg. Chem.*** **2016,** *55,* 1562.
138	B. Mondal, K. Acharyya, P. Howlader, **P. S. Mukherjee**	Molecular cage imgregnated Pd nanoparticles: Efficient additive-free heterogeneous catalysts for cyanation of aryl halides	***J. Am. Chem. Soc.*** **2016,** *138***,** 1709.
137	A. Chowdhury, P. Howlader, **P. S. Mukherjee**	Crystallization induced emission enhancement of mechano-fluorochromic Pt(II) luminogen and its application for cysteine detection	***Chem. Eur. J.*** **2016**, *22*, 1424.
136	P. Howlader, S. Mukherjee, R. Saha**, P. S. Mukherjee**	Conformation-selective coordination-driven self-assembly of a ditopic donor with Pd^{II} acceptors	***Dalton Trans.*** **2015,** 20493.
135	A. Adeyemo, S. Shanmugaraju, D. Samanta, **P. S. Mukherjee**	Template-free coordination-driven self-assembly of discrete hexanuclear prismatic cages employing half-sandwich octahedral Ru^{II}_2 acceptors and triimidazole donors	***Inorg. Chim. Acta.*** **2016,** *440*, 62
134	S. Shanmugaraju, **P. S. Mukherjee**	π-electron rich small molecule sensors for the recognition of nitroaromatics	***Chem. Commun. 2015,*** 51, 16014
133	S. Das Gupta, A. Chowdhury, **P. S. Mukherjee**	Binding of carboxylatopillar [5]arene with alkyl and aryl ammonium salts in aqueous medium	***RSC. Adv.*** **2015,** 85791
132	B. Roy, S. Shanmugaraju, R. Saha, **P. S. Mukherjee**	Self-assembly of Metallamac-rocycles Employing a New Benzil Based Organometallic Bisplatinum (II) Acceptor	***CHIMIA,*** **2015,** *69*, 541 **(Invited article)**

131	B. Roy, A. K. Ghosh, S. Srivastava, P. D'Silva, **P. S. Mukherjee**	A Pd_8 Tetrafacial Molecular Barrel as Carrier for Water Insoluble Fluorophore	***J. Am. Chem. Soc.*** **2015,** *137,* 11916
130	I. A. Bhat, D. Samanta and **P. S. Mukherjee**	A Pd_{24} Pregnant Molecular Nanoball: Self-Templated Stellation by Precise Mapping of Coordination Sites	***J. Am. Chem. Soc.*** **2015,** *137,* 9497
129	A. Chowdhuri, **P. S. Mukherjee**	Electron rich triphenylamine based sensors for picric acid detection	***J. Org. Chem.*** ***2015****, 80,* 4064
128	B. Gole, U. Sanyal and **P. S. Mukherjee**	A smart approach to achieve exceptionally high loading of metal nanoparticles supported by functionalized extended frameworks for efficient catalysis	***Chem. Commun.*** **2015,** *51*, 4872.
127	K. Acharyya, **P. S. Mukherjee**	Post-synthetic exterior decoration of an organic cage by copper(I) catalyzed A^3-coupling and detection of nitroaromatics	***Chem. Eur. J.*** **2015,** *21***,** 6823
126	K. Acharyya, **P. S. Mukherjee**	Shape and size directed self-selection in organic cage formation	***Chem. Commun.*** **2015,** *51*, 4241.
125	S. Shanmugaraju and **P. S. Mukherjee**	Self-assembling discrete molecules for sensing nitroaromatics	***Chem. Eur. J.*** **2015,** *21*, 6656 (**One of the most accessed article in 2/2015**)
124	D. Samanta and **P. S. Mukherjee**	Sunlight induced molecular covalent marriage of two triply interlocked Pd_6 cages and their facile thermal separation	***J. Am. Chem. Soc.*** **2014,** *136,* 17006
123	K. Acharyya and **P. S. Mukherjee**	A fluorescent organic cage for picric acid detection	***Chem. Commun.*** **2014,** *50,* 15788
122	S. Mukherjee and **P. S. Mukherjee**	Cu^{II}-Azide polynuclear complexes of three different building clusters with the same Schiff-base co-ligand: synthesis, structures, magnetic behavior and DFT studies	***Cryst. Growth & Design.*** **2014,** *15***,** 4177

121	B. Gole, A. K. Bar and **P. S. Mukherjee**	Multicomponent assembly of fluorescent tag functionalized ligands in coordination frameworks for explosive sensing	***Chem. Eur. J.*** **2014,** *20,* 13321
120	D. Samanta and **P. S. Mukherjee**	Component selection in self-assembly of Pd(II) nanocages and cage-to-cage transformation	***Chem. Eur. J.*** **2014,** *20,* 12483
119	B. Gole, W. Song, M. Lackinger and **P. S. Mukherjee**	Explosive sensing using electron rich supramolecular polymers: Role of intermolecular H-bonding in significant enhancement of sensitivity	***Chem. Eur. J.*** **2014,** *20,* 13662
118	D. Samanta and **P. S. Mukherjee**	Self-assembled multicomp-onent Pd_6 aggregates showing low-humidity proton conduction	***Chem. Commun.*** **2014,** *50*, 1595.
117	S. Mukherjee and **P. S. Mukherjee**	Template free multicomponent self-assembly of Pd/Pt molecular cages	***Chem. Commun.*** **2014,** *20***,** 2239.
116	D. Samanta and **P. S. Mukherjee**	Structural diversity in multinuclear Pd(II)-assemblies: Potential materials for low-humidity proton conduction	***Chem. Eur. J.*** **2014,** *20*, 5649.
115	B. Gole, A. K. Bar and **P. S. Mukherjee**	Modification of Extended Open Frameworks with Fluorescent Tags for Sensing Explosives: Competition Between Size Selectivity and Electron Deficiency	***Chem. Eur. J.*** **2014,** *20*, 2276.
114	K. Acharyya and **P. S. Mukherjee**	H-bond driven controlled molecular marriage in covalent cages	***Chem. Eur. J.*** **2014,** *20*, 1646
113	S. Shanmugaraju, H. Jadhav and **P. S. Mukherjee**	Self-assembly of chloro-bridged ruthenium based rectangle: Synthesis, structural characteri-zation and Sensing study	***Proc. Ind. Nat. Sc. Acad.*** **2014,** *84*, 197 (invited article)
112	B. Gole, K. C. Mondal, and **P. S. Mukherjee**	Tuning nuclearity of clusters by positional change of functional group: Synthesis of polynuclear clusters, crystal structures and magnetic properties	***Inorg. Chim. Acta.*** **2014,** *415*, 151.

111	D. Samanta, S. Shanmugaraju, A. Adeyemo, and **P. S. Mukherjee**	Self-assembly of discrete metallamacrocycles employing half sandwich octahedral diruthenium building units and imidazole based ligands	***J. Orgmet. Chem.*** **2014,** 703. **(Invited article for a special issue)**
110	S. Mukherjee, D. Samanta and **P. S. Mukherjee**	A Series of 3d Metal Complexes with Isomeric Phenylenedi-acetates and 1,3,5-tris(1-imidazolyl) benzene ligand: Synthesis, Structures, Magnetic and Luminescence Properties	***Cryst. Growth & Des.*** **2013**, *14*, 5335.
109	D. Samanta and **P. S. Mukherjee**	Pt^{II}_6 Nanoscopic molecular cages with organometallic backbone as sensors for picric acid	***Dalton Trans.*** **2013**, *42*, 16784.
108	S. Mukherjee and **P. S. Mukherjee**	Role of dicarboxylate linkers in Mn(III)-salicylaldoximate based extended molecular magnets	***Chem. Eur. J.*** **2013**, *19*, 17064.
107	B. Roy, S. Mukherjee and **P. S. Mukherjee**	Sr^{2+} and Cd^{2+} Coordination polymers: Effect of different coordinating behaviour of a newly designed tricarboxylic acid	***Cryst. Engg. Comm.*** **2013,** 9596**.**
106	S. Anbu, S. Kamalraj, C. Jayabhaskaran and **P. S. Mukherjee**	Naphthalene carbohydrazone based dizinc(II) chemosensor for pyrophosphate ion and its DNA assessment application in PCR products	***Inorg. Chem.*** **2013,** *52***,** 8294**.**
105	S. Ghosh, S. Mukherjee, P. Seth, A. Ghosh, **P. S. Mukherjee**	Solvent-Templated Supramolecular Isomerism in 2D Coordination Polymer Constructed by NiII2CoII Node and Dicyanamido Spacer: Drastic Change in Magnetic Behaviors	***Dalton Trans.*** **2013**, *42*, 13554.
104	B. Gole, A. K. Bar, A. Mallick, R. Banerjee and **P. S. Mukherjee**	Electron rich porous extended framework as heterogeneous catalyst for Diels-Alder reaction	***Chem. Commun.*** **2013**, 49, 7439.
103	S. Mukherjee and **P. S. Mukherjee**	Versatility of azide in copper(II) magnetic polyclusters formation	***Acc. Chem. Res.*** **2013**, 46, 2556.

102	S. Shanmugaraju, H. Jadhav, R. Karthik, and **P. S. Mukherjee**	Electron rich supramolecular polymers as fluorescent sensors for nitroaromatics	***RSC. Advances*** **2013,** *3,* 4940.
101	B. Roy, A. K. Bar, B. Gole and **P. S. Mukherjee**	Fluorescent tris-imidazolium sensors for picric acid explosive	***J. Org. Chem.*** **2013**, *78*, 1306.
100	K. Acharyya, S. Mukherjee and **P. S. Mukherjee**	Molecular marriage through partner preferences in covalent cage formation and cage-to-cage transformation	***J. Am. Chem. Soc.*** **2013**, *135,* 554.
99	D. Samanta and **P. S. Mukherjee**	Multicomponent self-sorting of a Pd_7 boat and its use in catalytic Knoevenagel condensation	***Chem. Commun.*** **2013**, 4307. **(Invited contribution for a special "Emerging investigators' issue 2013")**
98	S. Mukherjee and **P. S. Mukherjee**	Cu(II)-Azide polynuclear complexes of Cu4 building clusters with Schiff base co-ligands: synthesis, structures, magnetic and DFT studies	***Dalton Trans.*** **2013**, *42*, 4019.
97	S. Shanmugaraju, Arun K. Bar, D. Moon, **P. S. Mukherjee**	Coordination assembly of Pt_4 macrocycles with organometallic backbone for sensing of acyclic dicarboxylic acids	***Dalton Trans,*** **2013**, 2998.
96	S. Shanmugaraju, H. Jadhav, Y. Patil, **P. S. Mukherjee**	Self-assembly of an octanuclear Pt(II) tetragonal prism from a new Pt_4 organometallic building unit and its nitroaromatic explosives sensing	***Inorg. Chem.*** **2012**, 51, 13072.
95	S. Anbu, S. Shanmugaraju, R. Ravishankaran, A. Karanda, **P. S. Mukherjee**	Naphthylhydrazone based selective and sensitive chemosensors for Cu(II)	***Dalton Trans.*** **2012**, *41*, 13330.

94	S. Anbu, S. Shanmugaraju, R. Ravishankaran, A. Karanda, **P. S. Mukherjee**	A phenanthrene based highly selective fluorogenic and visual sensor for Cu(II) with nanomolar detection limit	***Inorg. Chem. Comm.*** **2012**, 25, 26.
93	D. Samanta, S. Mukherjee, Y. Patil, **P. S. Mukherjee**	Self-assembled Pd_6 cage with triimidazole walls and use of its confined nanospace for catalytic Knoevenagel and Diels-Alder reactions in aqueous medium	***Chem. Eur. J.*** **2012,** *18***,** 12322.
92	A. K. Bar, S. Mohapatra, **P. S. Mukherjee**	A series of Pd_6 trifacial molecular barrels with porphyrin walls	***Chem. Eur. J.*** **2012,** *18***,** 9571.
91	S. Mukherjee, Y. Patil, **P. S. Mukherjee**	Novel heterometallic chains featuring Mn(III) and Na(I) ions in trigonal prismatic geometries alternately linked to Mn(IV) octahedral ions: Synthesis, structures and detail magnetic study	***Inorg. Chem.*** **2012**, *51*, 4888.
90	S. Shanmugaraju, V. Vajpayee, K. Chi, P. J. Stang, **P. S. Mukherjee**	Coordination driven self-assembly of 2D metallacycles from a new carbazole based 90° dipyridyl donor: Synthesis, characterization, and C_{60} binding	***Inorg. Chem.*** **2012**, *51*, 4817.
89	S. Shanmugaraju, D. Samanta, **P. S. Mukherjee**	Self-assembly of Ru_4 and Ru_8 assemblies using Ru_2 organometallic precursors: Synthesis, characterization and properties	***Beilstein J. Org. Chem.*** **2012**, 8, 313. **(Invited article for a special issue)**
88	D. Samanta, S. Shanmugaraju, Y. Patil, M. Nethaji, **P. S. Mukherjee**	Pillar height dependent unprecedented Pd8 molecular swing and Pd6 molecular boat via multicomponent and C_{60} binding	***Chem. Commun.*** **2012**, *48*, 2298.

87	Arun K. Bar, S. Raghothama, **P. S. Mukherjee**	Three-component self-assembly of a series of interlocked Pd12 prisms and their non-interlocked analogues	***Chem. Eur. J.*** **2012,** *18,* 3199.
86	B. Gole, A. K. Bar, **P. S. Mukherjee**	Metal-organic framework for sensing of nitroaromatics	***Chem. Commun.*** **2011**, *47*, 12137.
85	K. C. Mondal, B. Gole, Y. Song, D. Turner, **P. S. Mukherjee**	Two new chains of Ni_2Na_2 heterometallic double half-cubane building units: synthesis, structures and magnetic behavior	***J. Chem. Sci***. **2011**, 807. (**Invited article for a special issue to mark the International Year of Chemistry)**
84	S. Shanmugamraju, S. A. Joshi, **P. S. Mukherjee**	Self-assembly using of a new organometallic clip: synthesis, characterization and sensing study	***Inorg. Chem.*** **2011**, *50*, 11736.
83	S. Mukherjee, Y. P. Patil, **P. S. Mukherjee**	Cu-Azido polymers with various molar equivalents of blocking amines: Synthesis, structures and magnetic properties with DFT	***Dalton Trans.*** **2012**, 54.
82	S. Shanmugamraju, S. A. Joshi, D. Samanta, **P. S. Mukherjee**	Coordination-driven self-assembly of 2D-metallamacrocycles using a shape-selective Pt^{II}_2-organometallic 90° acceptor: design, synthesis and nitroaromatic sensing	***Dalton Trans.*** **2011**, *40*, 12333. (**Invited Article for a special issue on Molecular Self-Assembly**)
81	R. Chakrabarty, **P. S. Mukherjee,** P. J. Stang	Supramolecular coordination: Self-assembly of finite 2D and 3D ensembles	***Chem. Rev.*** **2011**, *111*, 6810.
80	B. Gole, S. Shanmugaraju, A. K. Bar, **P. S. Mukherjee**	Supramolecular polymer for explosives sensing: role of H-bonding in enhancement of sensitivity in solid state	***Chem. Commun.*** **2011**, 47, 10046.
79	S. Shanmugamraju, S. A. Joshi, **P. S. Mukherjee**	Fluorescence and visual sensing of nitroaromatic explosives using electron rich discrete fluorophores	***J. Mater. Chem.*** **2011**, 9130.

78	S. Mukherjee, B. Gole, Y. Song, **P. S. Mukherjee**	Synthesis, structures and magnetic behavior of a series of CuII-azide polymers of Cu_4 building clusters and isolation of a new hemiaminal ether as metal complex	***Inorg. Chem.*** **2011**, *50*, 3621.
77	V. Vajpayee, H. Kim, A. Mishra, **P. S. Mukherjee**, P. J. Stang,* M. H. Lee, K.W. Chi	Self-assembly of molecular squares using metal based acceptor: synthesis and application in sensing of nitroaromatics	***Dalton Trans.*** **2011**, *40*, 3112.
76	A. K. Bar, R. Chakrabarty, **P. S. Mukherjee**	Coordination driven self-assembly of metallamacrocycles using ambidentate linkers and self-selection of single linkage isomer	***Inorg. Chim. Acta.*** **2011**, 372, 313. (**Invited article for a special issue)**
75	S. Shanmugamraju, A. K. Bar, S. Joshi, J. Patil, **P. S. Mukherjee**	Constructions of 2D-Metallamacrocycles Using Half-Sandwich RuII2 Precursors: Synthesis, Molecular Structures and Self-Selection for a Single Linkage Isomer	***Organometallic****s*, **2011**, *30,* **1951**.
74	A. K. Bar, S. Shanmugamraju, **P. S. Mukherjee**	Self-assembly of Pd(II) neutral and cationic rectangles: syntheses, characterizations and nitroaromatics sensing	***Dalton Trans.*** **2011,** *40*, 2257. (**Invited article for a themed issue: New Talent from Asia**).
73	W. Ming, V. Vajpayee, S. Shanmugamraju, **P. S. Mukherjee**, K. Chi, P. J. Stang	Coordination driven self-assembly of M_3L_2 trigonal cages from preorganized metalloligands containing octahedral metal centers and fluorescent detection of nitroaromatics	***Inorg. Chem.*** **2011**, *50*, 1506.
72	S. Shanmugamraju, A. K. Bar, **P. S. Mukherjee**	Ru-O bond directed self-assembly of a Ru_8 incomplete prism: Synthesis, structure and shape selective molecular recognition study	***Inorg. Chem.*** **2010**, *49*, 10235.
71	S. Mukherjee, **P. S. Mukherjee**	A series of Cu-azido polymers of Cu_6 building units and the role of chelating diamine in	***Inorg. Chem.*** **2010**, *49*, 10658.

		controlling their dimensionality: Synthesis, structures and magnetic behavior	
70	O. Sengupta, B. Gole, **P. S. Mukherjee**	Synthesis, crystal structures and magnetic behavior of two 3D coordination polymers using N-(4/3 carboxyphenyl) iminodiacetic acids as bridging ligands	***Polyhedron***, **2010**, *29*, 2945.
69	A. K. Bar, G. Mostafa, **P. S. Mukherjee**	A Pd_6 Molecular cage via multicomponent self-assembly incorporating both neutral and anionic linkers	***Inorg. Chem.*** **2010**, *49*, 7647.
68	O. Sengupta, and **P. S. Mukherjee**	Tetrazole bridged multiferroic coordination polymers: Synthesis, structures and magnetic behavior	***Inorg. Chem.*** **2010**, *49*, 8583.
67	S. Shanmugamraju, A. K. Bar, K-W. Chi **P. S. Mukherjee**	Coordination driven self-assembly of metallama-crocycles via a new organometallic building block with 90° geometry and optical sensing of anions	***Organometallics*****,** **2010**, *29*, 2971.
66	B. Gole, S. Mukherjee, Y. Song, **P. S. Mukherjee**	Use of 2-pyrimidineamidooxime to generate polynuclear homo-/heteronuclear assemblies: synthesis, structure and magnetism	***Dalton Trans.*** **2010**, 9766.
65	O. Sengupta, B. Gole **P. S. Mukherjee**	A series of transition metal-azido extended complexes with various anionic and neutral co-ligands	***Dalton Trans.*** **2010**, 7451.
64	O. Sengupta, B. Gole, **P. S. Mukherjee**	Synthesis, crystal structures and magnetic behavior of two 3D coordination polymers using N(4/3carboxyphenyl)iminodiace - tic acids as bridging ligands	***Inorg. Chim. Acta,*** **2010**, 3093. (**Invited article**)
63	S. Mukherjee, B. Gole, R. Chakrabarty, **P. S. Mukherjee**	Cu(II)-azido polymers of Cu3 and Cu_6 building units: synthesis, structures and magnetic exchange mechanism	***Inorg. Chem.*** **2009**, *48*, 11325.

62	O. Sengupta, Y. Song, **P. S. Mukherjee**	Co(II) and Cr(III) complexes of formate-formamide mixed ligands: synthesis,structures, single crystal-to-single crystal transformation and magnetic behavior	***Dalton Trans.*** **2009**, 10343.
61	A. K. Bar, R. Chakrabarty, **P. S. Mukherjee**	Self-assembly of a Pd_6 Molecular Double-Square and a Cu_3-TBP cage via a New Tripodal Flexible Ligand	***Inorg. Chem.*** **2009**, *48*, 10880.
60	O. Sengupta and **P. S. Mukherjee**	Three-component assembly of a metal-inorganic 3D coordination polymer of Co(II) containing bridging hydrazine: observation of spin-canting behavior	***Dalton Trans.*** **2009**, 7599.
59	S. Ghosh, B. Gole, A. K. Bar, and **P. S. Mukherjee**	Design and synthesis of fluorescent molecular prism via Pt_3 organometallic acceptors and a Pt_2 clip	***Organometallics*****,** **2009**, *28*, 4288.
58	A. K. Bar, B. Gole, S. Ghosh, and **P. S. Mukherjee**	Self-assembly of a Pd(II) neutral molecular rectangle via a new organometallic Pd_2 molecular clip	***Dalton Trans.*** **2009**, 6701.
57	K. C. Mondal, O. Sengupta, and **P. S. Mukherjee**	A rare homoacetylate bridged Cu4 half-cubane antiferromagnetic cluster	***Inorg. Chem. Comm.*** **2009**, *12*, 682.
56	A.K. Bar, R. Chakrabarty, K-W. Chi, S. R. Batten and **P. S. Mukherjee**	Synthesis and characterization of heterometallic molecular triangles using ambidentate linker: Self-selection of a single linkage isomer	***Dalton Trans.*** **2009**, 3222.
55	S. Ghosh and **P. S. Mukherjee**	Self-Assembled Pd(II) Metallocycles Using an Ambidentate Donor and the Study of Square-Triangle Equilibria	***. Chem.*** *48*, 2605.

54	S. Ghosh, R. Chakrabarty, and **P. S. Mukherjee**	Design, Synthesis and Characterizations of a Series of Pt4 Macrocycles and Fluorescent Sensing of Cu2+/Ni2+ Through Metal Coordination	***. Chem.*** *48*, 549.
53	A. K. Bar, R. Chakrabarty, G. Mostafa and **P. S. Mukherjee**	Self-assembly of a nanoscopic $Fe_{12}Pt_{12}$ open hexagonal barrel containing six porphyrin walls	***Angew. Chem. Int. Ed.*** **2008**, *47*, 8455. **work highlighted in a Nature publishing group journal "Asia Materials" by the Editor of Nature Chemistry**)
52	K. C. Mondal, O. Sengupta, P. Dutta, S. K. Nayak and **P. S. Mukherjee**	3d-4f heterometallic hybrid 3D polymers: synthesis, structure and magnetism	***Inorg. Chim. Acta.*** **2009**, *392*, 1913.
51	A. K. Bar, R. Chakrabarty, and **P. S. Mukherjee**	Unusual hydrogenation of fumarate anion followed by metal-carbon bond formation: Synthesis and characterizations of two metallochelates	***Organometallics***, **2008**, *27*, 3806.
50	K. C. Mondal and **P. S. Mukherjee**	Three new Cu-azido polymers and their systematic inter conversion: Role of the amount of the blocking amine on the structural diversity and magnetic behavior	***Inorg. Chem.*** **2008**, *47*, 4215.
49	S. Ghosh and **P. S. Mukherjee**	Self-assembly of a trigonal trism via a new organometallic Pt3 linker and its fluorescent detection of nitroaromatics	***Organometallics***, **2008**, *27*, 316. **[(a) This work was highlighted in a daily newspaper *The Telegraph* on 20th Oct. 2008; (b) This paper was selected as one of the most accessed articles in the first quarter of 2008]**
48	K. C. Mondal, O. Sengupta, M. Nethaji, and **P. S. Mukherjee**	Assembling metals with pyridylcarboxylates to for polynuclear extended materials	***Dalton Trans.*** **2008**, 767.

47	S. Ghosh, R. Chakrabarty, and **P. S. Mukherjee**	Self-assembly of four new Pd(II) molecular boats using imidazole donor linker	***Dalton Trans.*** **2008**, 1850.
46	S. Ghosh and **P. S. Mukherjee**	Self-assembly of a series of metallamacrocycles via a rigid phosphorus donor linker	***Organometallics***, **2007**, *26*, 3362.
45	S. Ghosh, S. R. Batten and **P. S. Mukherjee**	Self-assembly of a nanoscopic Pt(II) double square	***Organometallics***, **2007**, *26*, 3252.
44	K. C. Mondal, Y. Song, and **P. S. Mukherjee**	A Mn_9 mixed valent single molecule magnet	***Inorg. Chem.*** **2007**, *46*, 9736.
43	K. C. Mondal and **P. S. Mukherjee**	Synthesis of a Mn_6 cluster and its self-assembly of an azido bridged chain	***Inorg. Chem.*** **2007**, *46*, 5625.
42	S. Ghosh and **P. S. Mukherjee**	Self-assembly of metal-organic hybrid rectangles	***Dalton Trans.*** **2007**, 2542.
41	S. Ghosh, S. R. Batten and **P. S. Mukherjee**	Design and synthesis of a heterometallic triangle and self-selection for a single isomer	***Dalton Trans.*** **2007**, 1869. (**Featured on the cover of the issue and was selected as one of the top-ten accessed papers**).
40	**P. S. Mukherjee**, N. Lopez, F. C. Lee, J. C. Noveron	Single-crystal to single-crystals phase transition of bis(N-phenylisonicotinamide)silver(I) nitrate reveal cooperativity in porous materials	***Chem. Commun.*** **2007**, 1433.
39	K. C. Mondal and **P. S. Mukherjee**	Mn(II) azido chain using a new amide ligand: synthesis, crystal structure and variable temperature magnetic behavior	***Synthesis and reactivity of Inorganic, Metal-Organic, and Nano-metal Chemistry***, **2007**, *39*,735 (**Invited article**)
38	S. Ghosh and **P. S. Mukherjee**	Self-assembly of molecular nanoballs: Design, synthesis and characterization	***J. Org. Chem.*** **2006**, *71*, 8412.

37	S. Ghosh and **P. S. Mukherjee**	The first Pt(II) TBP cage with ester functionality	***Tetrahedron Lett.*** **2006**, *47*, 9297.
36	O. Sengupta, R. Chakrabarty and **P. S. Mukherjee**	Dual role of azido in the construction of a 3D Mn(II) polymer using bridging 5-pyrimidine carboxylate	***Dalton Trans.*** **2007**, 4514.
35	Sanjit Konar, **P. S. Mukherjee**, Ennio Zangrando, Talal Mallah, N. Ray Chaudhuri	Ni(II) dicyanamide 2D extended networks: synthesis, crystal structure and low temperature magnetic studies	***Inorg. Chim. Acta.*** **2005**, *358*, 957.
34	Sanjit Konar, **P. S. Mukherjee**, E. Zangrando, T. Mallah, N. Ray Chaudhuri	A porous 2D copper (II) polymer of trimesic acid	***Inorg. Chim. Acta.*** **2005**, *358*, 29.
33	**P. S. Mukherjee**, Neeladri Das, and Peter J. Stang	Self- assembly of nanoscopic 3D cages using a flexible tripodal amide containing linker	***J. Org. Chem.*** **2004**, *69*, 3526.
32	**P. S. Mukherjee**, Neeladri Das, Y. Kryeschenko, Atta M. Arif, Peter J. Stang	Design, Synthesis and Crystallographic Studies of Neutral Platinum Based macrocycles formed via self-assembly	***J. Am. Chem. Soc.*** **2004**, *126*, 2464.
31	**P. S. Mukherjee**, D. Ghoshal, E. Zangrando, T. Mallah and N. Ray Chaudhuri	Use of two different dicarboxylates towards the design of two new 3D and 2D networks	***Eur. J. Inorg. Chem.*** **2004**, 4675.
30	**P. S. Mukherjee**, Kil Sik Min, Atta M. Arif and Peter J. Stang*	Synthesis and crystal structure of two discrete, neutral assemblies of manganese and zinc using a rigid organic clip	***Inorg. Chem***. **2004**, *43*, 6345.

29	**P. S. Mukherjee,** Sanjit Konar, E. Zangrando, F. Lloret, N. Ray Chaudhuri	A single dicyanamide bridged Cu(II) dimer: synthesis, crystal structure and magnetic behavior	***Indian J. Chemistry*** **2004**, *43A*, 760.
28	Sudipta Dalai, **P. S. Mukherjee**, Ennio Zangrando, Joan Ribas, N. Ray Chaudhuri	Two new 3D architectures of Cu(II): synthesis, crystal structures and variable temperature magnetic studies	***Indian J. Chemistry*** (Special issue), **2003**, *42A*, 2250.
27	N. Das, **P. S. Mukherjee**, Atta M. Arif, Peter J. Stang	Facile self-assembly of neutral 2D Pt(II) macrocycles of a new class of rigid oxygen donor linkers	***J. Am. Chem. Soc***. **2003**, *125*, 13950.
26	S. Konar, **P. S. Mukherjee**, M.G.B. Drew, J. Ribas, N Ray Chaudhuri	Synthesis of two new 1D and 3D networks of Cu(II) and Co(II) using malonate and eurotropine: crystal structures and magnetic studies	***Inorg. Chem***. **2003**, *42*, 2545.
25	**P. S. Mukherjee**, S. Konar, E. Zangrando, T. Mallah, J Ribas and N. Ray Chaudhuri	Structural analyses and magnetic properties of two novel 3D networks of nickel(II) and manganese(II) using carboxylato as bridging ligand	***Inorg. Chem***., **2003**, *42*, 2695.
24	S. Dalai, **P. S. Mukherjee**, S. Geib, N. Ray Chaudhuri	Synthesis and crystal structure of two extensively hydrogen bonded network of Cu(II)	***Indian J. Chem.,*** **2002**, *41A*, 1363.
23	**P. S. Mukherjee**, S. dalai, E. Zangrando, F. Lloret, N. Ray Chaudhuri	A novel class of interpenetrated 3-D network of dimeric cupric-tetracarboxylate	***Dalton Trans***, **2002**, 822. (**Selected as one of the top-ten accessed papers**).
22	**P. S. Mukherjee**, S. Konar, E. Zangrando, J. Ribas, N. Ray Chaudhuri	Two new bi-bridging 1D metal-organic chains of Cu(II)	***Dalton Trans.*** **2002**, 3471.

21	S. Konar, **P. S. Mukherjee**, E. Zangrando, F. Lloret, and N. Ray Chaudhuri	A 3-D homometallic molecular ferrimagnet	***Angew. Chem. Int. Ed.*** **2002**, *41*, 1561
20	**P. S. Mukherjee**, S. Dalai, T. Mallah, N Ray Chaudhuri	A doubly end-to-end azido 1D ferromagnetic chain	***Inorg.Chem. Commun***. **2002**, *5*, 472.
19	S. Dalai, **P. S. Mukherjee**, E. Zangrando, N. Ray Chaudhuri	Two 1D and 3D coordination polymer of Mn(II) with dicyanamide bridge: synthesis, crystal structure and magnetic behaviour	***New J. Chem***. **2002**, *26*, 1185.
18	**P. S. Mukherjee**, T. K. Maji, R. Vicente, J. Ribas, N. Ray Chaudhuri	Three novel end-to-end single azido bridged 1D copper(II) chains: Syntheses, crystal structure determination and magnetic behavior	***Eur. J. Inorg. Chem***. **2002**, 943.
17	S. Dalai, **P. S. Mukherjee**, G. Rogez, T. Mallah, M. G. B. Drew N Ray Chaudhuri	Synthesis, crystal structures and magnetic properties of two new 1D copper(II) coordination polymers containing fumarate(-2) and chelating N, N-donor	***Eur. J. Inorg. Chem.*** **2002**, 3292.
16	S. Dalai, **P. S. Mukherjee**, M. G. B. Drew, T. H. Lu, N. Ray Chaudhuri	Azido bridged two new ferromagnetic Cu(II) chains: synthesis, structure and variable temperature magnetic behaviour	***Inorg. Chim. Acta***, **2002**, *335*, 85.
15	**P. S. Mukherjee**, T. K. Maji, G. Mostafa, J. Ribas, M. S. El Fallah, N. Ray Chaudhuri	Observation of dominant ferromagnetic interaction in fumarate bridged 1-D polymer of Cu(II)	***Inorg. Chem***. **2001**, *40*, 928.
14	T. K. Maji, **P. S. Mukherjee**, G. Mostafa, T. Mallah, J.C. Boquera, N. Ray Chaudhuri	First observation of ferromagnetic interaction through end-to-end azido bridging pathway in 1D copper(II) system	***Chem. Commun***. **2001**, 1012.

13	T. K. Maji, **P. S. Mukherjee**, G. Mostafa, E. Zangrando, N. Ray Chaudhuri	1D porous framework of copper(II) using novel coordination mode of Ni(CN)42-	***Chem. Commun***. **2001**, 1368.
12	**P. S. Mukherjee**, S. Dalai, G. Mostafa, E. Zangrando, T. H. Lu, G. Rozeg, N. Ray Chaudhuri	A three-component fully interlocked 3-D network: crystal structure and magnetic behaviour	***Chem. Commun***. **2001**, 1346.
11	**P. S. Mukherjee**, S. Dalai, E. Zangrando, F. Lloret, N. Ray Chaudhuri	The first metamagnetic 1-D molecular material with nickel(II) and end-to-end azido bridge	***Chem. Commun***. **2001**, 1444.
10	T. K. Maji, **P. S. Mukherjee**, S. Koner, G. Mostafa , J. P. Tuchagues , N. Ray Chaudhuri	1 D coordination polymer of copper(II) containing m-1,1,3 azido ligand with alternating ferro-antiferromagnetic interaction	***Inorg. Chim. Acta***, **2001**, *314*,111.
09	**P. S. Mukherjeee**, T. K. Maji, T. Mallah, E. Zangrando, L. Randaccio, N. Ray Chaudhuri	A novel bimetallic alternating chain: synthesis, crystal structure and magnetic study	***Inorg. Chim. Acta***, **2001**, *315,* 249.
08	**P. S. Mukherjee**, T. K. Maji, G. Mostafa, W. Hibbs, N. Ray Chaudhuri	A 1D coordination polymer of copper(II) with three different bridging anions: synthesis, crystal structure, and magnetic behaviour	***New J. Chem***. **2001**, *25,* 760.
07	**P. S. Mukherjee**, S. Dalai, G. Mostafa, T. H. Lu, E. Rentschler, N. Ray Chaudhuri	Synthesis, crystal structure, and magnetic properties of two new Cu(II) complexes with end-to-end azido bridging	***New J. Chem***. **2001**, 25, 1203.
06	S. Dalai, **P. S. Mukherjee**, G. Rogez, T. Mallah, M. G. B. Drew N Ray Chaudhuri	Synthesis, Crystal Structures and Magnetic Properties of two New 1D Copper(II) Coordination Polymers Containing Fumarate(- 2) and Chelating N,N¢-Donor as	***Eur. J. Inorg. Chem.*** **2002**, 3292.

		Ligands	
05	T. K. Maji, G. Mostafa, **P. S. Mukherjee**, A. Mondal, A. J. Welch, K. Okamoto, N. Ray Chaudhuri	Synthesis of triamine complexes of nickel(II) selenocyanate and their thermally induced dimerization	***Polyhedron***, **2000**, *19*, 1903.
04	J. Cheng, F. L. Liao, T. H. Lu, **P. S. Mukherjee**, T. K. Maji, N Ray Chaudhuri	An oxalato-bridged copper(II) complex	***Acta Cryst***., **2001**, *E57*, m263.
03	T. K. Maji, I. R. Laskar, G. Mostafa, A. J. Welch, **P. S. Mukherjee**, N. Ray Chaudhuri	An 1D thiocyanato bridge nickel (II) system: Crystal structure and magnetism	***Polyhedron*** **2001**, *20*, 651.
02	**P. S. Mukherjee**, T. K. Maji, S. Koner, G. Rosair, N. Ray Chaudhuri	Synthesis and magnetic study of three new mu-oxalato dinuclear copper(II) complexes	***Indian J. Chem***., 40A, **2001,** 451.
01	**P. S. Mukherjee**, T. Maji, G. Mostafa, T. Mallah, N. R. Chaudhuri	The first alternating single end-on and single end-to-end azido bridged Cu(II) chain	***Inorg. Chem.,*** **2000**, 39, 5147.

Lectures delivered in last few years:

1) Finite and infinite polynuclear assemblies
   TIFR, Mumbai, May-2005
2) A few examples of polynuclear assemblies
   IPC Dept, IISc-Bangalore, July 28th, 2005
3) Self-assembly of Pt and Pd based molecular architectures
   Annual meeting of the Chemical Sciences division IISc, Jan-2007
4) Molecular architectures via coordination

First ACCC conference, Okazaki, Japan, July-2007

5) Polynuclear magnetic materials
Deparment of Chemistrty, Madurai Kamraj University, Nov-2007

6) Metal-ligand coordination: an efficient tool to design large molecules
Deparment of Chemistrty, Madurai Kamraj University, Nov-2007

7) Discrete and extended polynuclear assemblies
MTIC conference, IIT-Chennai, Dec-2007

8) Self-assembly of polynuclear assemblies of diamagnetic and paramagnetic metal ions "INSA, New Delhi, April-2008".

9) Invited lecture on "Finite and Infinite Metal-Organic Assemblies"
in Chemistry of Materials conference organized by the Department of Chemistry, Gitam University, Vishakapatnam, July-2008

10) Invited lecture on "Self-assembly via coordination: an account of our recent research" Organic Chemistry Dept, Free University, Berlin, Germany, Sept-2008.

11) Invited lecture: Self-assembly via coordination: an account of our recent research
Vellore Institute of Technology, Vellore, Sept-2008.

12) Invited lecture: Coordination driven self-assembly: A tool to design assemblies of finite shapes and sizes
Department of Chemistry, University of Neuchatel, Switzerland, October-2008

13) Invited lecture: Coordination driven self-assembly: A tool to design assemblies of finite shapes and sizes
Department of Chemistry, University of Freibourgh, Switzerland, October-2008

14) Invited lecture: Self-assembly of discrete diamagnetic and paramagnetic clusters
Department of Chemistry, University of Bern, Switzerland, October-2008

15) Invited lecture: Designing molecules via coordination
Kalna College, WB, November-2008

16) Invited lecture in an International conference 'Functional materials' held in Calcutta University on 7th Jan 2009.

17) Invited lecture "Discrete and finite supramolecular assemblies via coordination" in an Indo-German conference held in Delhi University, March 2009.

18) Invited Lecture "Functional materials" in a CSIR sponsored meeting at Periyakulam PG College (Tamil Nadu) in Feb, 2009.

19) Invited lecture "Discrete nanoscale magnetic materials" in a meeting arranged by the Microsoft Research India, Bangalore, in May 2009.

20) "Metal-organic hybrid macrocycles and cages: design and synthesis via coordination" in Emerging Trends in Chemistry-2009 held at IISc in May 2009.

21) Invited lecture on "Metal-ligand coordination driven nanostructures" in Platinum Jubilee meeting of the Indian Academy of Science, Bangalore held in Hyderabad (July 3rd, 2009)

22) "Metallacycles and cages via coordination" in an International conference "IRIS-12" held in Goa.

23) Invited lecture on "Supramolecular Metallacycles and Cages via Metal-Ligand Coordination" In an international conference "The 2nd ACCC" held in Nanjing, China, 3rd Nov, 2009.

24) Invited Lecture on “Matallacycles and Cages via directional self-assembly” Department of Chemistry, Ulsan University, Korea (December 21, 2009).

25) Invited Lecture on “Diamagnetic and Paramagnetic polynuclear clusters” Department of Chemistry, Kyungpook National University, Korea (January 8, 2010).

26) Invited Lecture on “Metal ligand coordination as a tool to design functional matallacycles and cages” Department of Chemistry, Hanyang University, Korea (January 15, 2010).

27) Invited Lecture on “Matallacycles and Cages via directional self-assembly” Department of Chemistry, Gyeongsong National University, Korea (January 28, 2010).

28) Invited lecture on “Discrete and polymeric inorganic-organic hybrid materials” Ulsan National Institute of Science and Technology (UNIST), Korea (February 1, 2010).

29) Invited lecture on “Matallacycles and Cages via directional self-assembly”, POSTECH, Korea (January 29, 2010).

30) Invited lecture on “Current trends in supramolecular chemistry” in a national conference organized by The American College, Madurai (February 13, 2010).

31) Invited lecture on “Smart molecular architectures and their functionalization” in 60^{th} Anniversary of Coordination chemistry conference held in Osaka, Japan (Sept-2010).

32) Invited Lecture on “Functions through architectures” in Osaka City University, Japan (October-2010).

33) Invited lecture on “Self-assembly of smart molecular architectures and self-selection in multicomponent self-assembly” in Jadavpur University, Kolkata (November 2010).

34) Invited lecture on “Supramolecular coordination towards nano-architectures” in an international conference on nanomaterials held in Vizag, Dec 2010.

35) Invited lecture on “Self-selection in coordination self-assembly” in Humboldt Kolleg, IIAP (Bangalore) (Feb 2011)

36) Invited lecture on “Self- assembly of molecular architectures and self-sorting in multicomponents self-assembly” in 13^{th} CRSI symposium in Bhubaneswar (Feb 2011).

37) Lecture on “Smart organometallic architectures as potential sensors” in the “First European Inorganic Chemistry Conference” held in Manchester, UK (Apr-2011)

38) Invited lecture on “Self-selection in coordination self-assembly” in IIT-Madras, June-2011.

39) Lecture on “Pt(II)-nanoarchitectures for explosives detection” in an international symposium “Advanced Complex Inorganic Nanomaterials” held in Namur, Belgium (Sept-2011).

40) Invited special lecture “Multicomponent self-assembly and electron rich sensors”, ISRO-IISc Space Technology Center, Sept 2011.

41) Invited lecture “Self-selection in coordination self-assembly” in an International Conference “3^{rd} Asian Conference on Coordination Chemistry” held in Delhi, October 2011.

42) Invited lecture "Multicomponent self-assembly and functionalization" in the 22nd General meeting of TWAS held in International Centre for Theoretical Physics (ICTP), Trieste-Italy, November 2011.
43) Invited lecture "Self-sorting in self-assembly and electron rich sensors for explosives" in the Department of Chemistry, University of Trieste, Italy, November 2011.
44) Invited lecture "Self-selection in coordination self-assembly and organic reactions in confined nanospace in coordination cage" in the National conference MTIC-14 held in School of Chemistry, University of Hyderabad, December 2011.
45) Invited plenary lecture on "Engineering molecules for applications" in Shivaji University (Maharastra) on the occasion of Golden jubilee year of the University, Jan-2012.
46) Invited lecture on "Supramolecular Coordination" in a National symposium on research and teaching in chemistry held in Panskura College (W.B.) during Jan 17-18, 2012.
47) Invited lecture on "Versatility of supramolecular coordination" in meeting of Indian Academy of Science organized by St Joseph's college, Kerala on March 7, 2012.
48) Invited lecture on "Magnetic clusters and electron rich sensors" in meeting of Indian Academy of Sciences organized by St Joseph's college, Irinjalakula on March 8, 2012.
49) Invited lecture on "Supramolecular coordination-an accepted terminology" in Vidyasagar University under UGC sponsored lecture series, March 15, 2102.
50) Invited lecture on "Magnetic clusters and single molecule magnets" in Vidyasagar University under UGC sponsored lecture series, March 16, 2012.
51) Invited lecture on "Prospects of supramolecular chemistry" in INSPIRE programme held in Shivaji University-Kolhapur, on May 30, 2012.
52) Invited lecture on "Chemical reactions in confined nanospace of molecular cages" in Department of Chemistry, Nankai University, Sept 2012.
53) Invited lecture on "Electron rich sensors for nitroaromatic explosives and self-sorting in coordination self-assembly" in East China Normal University, Shanghai, Sept 2012.
54) Invited lecture on "Self-sorting in self-assembly and functionalization towards catalysis" in School of Chemistry, University of Hyderabad, October 2012.
55) Invited lecture on "Self-sorting in self-assembly and catalysis in confined space" in a conference organized by department of chemistry, IIT-Guwahati, December 2012.
56) Invited lecture on "Self-assembly of electron rich sensors for explosives" in a conference organized by department of chemistry, IIT-Delhi, December 2012.
57) Invited lecture on "Supramolecular coordination" in department of chemistry, Guru Nanak Dev University, December 2012.
58) Invited lecture on "Polynuclear magnetic assemblies" in the department of chemistry, Guru Nanak Dev University, December 2012.
59) Invited lecture on "Sensing explosives: A supramolecular approach" in the School of Physical Sciences, JNU, Delhi, March 2013.

60) Invited lecture on “Functional molecular architectures” in Pondicherry University, March 2013.
61) Invited lecture on “Sensing explosives and catalysis in confined nanospace” in Buenos Aires University, Argentina, October 2013.
62) Invited lecture on “Molecular marriage in covalent cage formation” in Asain Crystallographic conference, HKUST, Hong Kong, December 2013.
63) Invited lecture on “Supramolecular Coordination” in a refresher course in Jadavpur University, Jan 2014.
64) Invited lecture on “Catalysis in confined nanospace” in a national conference organized by NIT-Rourkela, Jan 2014.
65) Invited lecture on “Molecular marriage in covalent cages” in a national conference organized by the American College, Madurai, Jan 2014.
66) Invited lecture on “Self-sorting in covalent cage formation” in a national conference organized by IISER Mohali, Mohali, March 2014.
67) Invited lecture on “Supramolecular chemistry: basics and application” in an Indian Academy of Sciences’ workshop, BHU, Varanasi, April 2014.
68) Invited lecture on “Supramolecular Coordination” in an Indian Academy of Sciences’ workshop, Aurangabad Ambedkar University, Aurangabad, March 2014.
69) Invited lecture on “Catalysis in nanocavity” in an Indian Academy of Sciences’ workshop, Aurangabad Ambedkar University, Aurangabad, March 2014.
70) Invited lecture on “Explosive sensing and cage catalysis” at the Institute of Organic Chemistry, University of Seigen, Germany, May 2014.
71) Invited lecture on “MOF and supramolecular sensors for nitroaromatics” at the Institute of Inorganic Chemistry, University of Duesseldorf, Germany, May 2014.
72) Invited lecture on “Functional supramolecular nanoarchitectures” at the Max-Planck Institute for solid state research, Stuttgart, Germany, June 2014.
73) Invited lecture on “Supramolecular sensors for nitroaromatics” at the Technical University Munich, Germany, June 2014.
74) Invited lecture on “Explosives sensing by nanoarchitectures and chemical reactions in confined nanospace” at the Institute of Organic Chemistry, University of Würzburg, Germany, June 2014.
75) Invited lecture on “Explosives sensing by nanoarchitectures self-sorting in organic cage formation” at the Institute of Organic Chemistry, University of RWTH Aachen, Germany, June 2014.
76) Invited lecture on “Explosives sensing by nanoarchitectures and chemical reactions in confined nanospace” at the Institute of Organic Chemistry, University of Heidelberg, Germany, May 2014.
77) Invited lecture on “Functional self-assembled cages” at the Institute of Organic Chemistry, University of Mainz, Germany, July 2014.
78) Invited lecture on “Chemical reactions in confined nanospace of coordination cages”, in International Conference on Coordination Chemistry (ICCC41) in Singapore, July 2014.
79) Invited lecture on “Supramolecular Coordination” in UGC sponsored symposium on supramolecular chemistry in St. Philomous college, Mysore, Aug 2014.

80) Invited lecture on “Self-assembled functional materials” at Graduate school of Engineering Kyoto, Japan, November 2014.
81) Invited lecture on “Molecular sensors for explosives and chemical reactions in confined space” at the Institute of Molecular Science, Okazaki, Japan, November 2014.
82) Invited lecture on “Self-sorting in covalent and organic cages” at the department of chemistry of Osaka City University, Japan, November 2014.
83) Invited lecture on “Self-assembled discrete and extended functional materials” at Department of Chemistry, University of Kyoto, Japan, November 2014.
84) Invited lecture on “Supramolecular sensors and molecular flasks for organic transormations” at Department of chemistry, Hiroshima University, Japan, November 2014.
85) Invited lecture on “Self-sorting in covalent cage formation and chemical reactions in confined nanospace” in an international conference “structural chemistry: molecules and materials”, Kolkata, December 2014.
86) Invited lecture on “Molecular marriage of organic/coordination cages” in a symposium “New directions in main group synthesis” held at IIT-Bombay in Dec 2014.
87) Invited lecture on “Explosives sensing by supramolecular sensors” in India-China-Singapore symposium held at SSCU, IISc in Dec 2014.
88) Invited lecture on “ Supramolecular self-assembly” in a national symposium on chemical sciences held in Shivaji University, Jan 2015.
89) Invited lecture on “Self-assembled discrete molecular architectures and their applications” in a workshop on organic and inorganic self-assembly, held at KIIT, Bhubaneswar, Feb 2015.
90) Invited lecture on “Learning the chemistry of small to large molecules” in “National Science day” programme organised by IACS, Kolkata, Feb 28, 2015.
91) Invited lecture on “Chemistry of complex inorganic and organic molecules” in a National symposium at Gandhigram University (Tamil Nadu), March 2015.
92) Invited lecture on “Molecular marriage in covalent cage formation” in a discussion meeting held at International center, Goa, July 2015.
93) Invited lecture on “Self-sorting in molecular cage formation” in an international conference “Asian Conference on Coordination Chemistry (ACCC-5)” held in University of Hong Kong, July 2015.
94) Invited lecture on “Chemical reactions in confined nanospace” in the department of chemistry, M S Baroda University (Gujarat), July 2015.
95) Invited Institute lecture on “Cage Catalysis” at the Department of Chemistry, NIT-Rourkela in Aug 2015.
96) Invited lecture on “Recent Trends in Supramolecular Chemistry” in a Science Academy’s workshop at the Department of Chemistry, Guru Ghasidas Central University, Bilaspur in August 2015.
97) Invited lecture on “Cage Catalysis” in the Department of Chemistry, East China Normal University, Shanghai in October 2015.
98) Invited lecture on “Cage catalysis and self-sorting in molecular cages” in the Department of Chemistry, Beijing University of Technology, Beijing in October 2015.

99) Invited lecture on “Cage catalysis and molecular marriage” in the Department of Chemistry, Zhejiang University, Huanzhou in October 2015.
100) Invited lecture on “Self-sorting in covalent cage formation” in the Department of Chemistry, Northwest University, Xi’en (China) in October 2015.
101) Invited lecture on “Cage Catalysis and Molecular Marriage” in the Department of Chemistry, Sun Yat-Sen University, Guanzhou in October 2015.
102) Invited lecture on “Chemical Reactions in Confined Nanospace” in the Institute of Structures and Matters, CAS, Fuzho (China) in October 2015.
103) Invited lecture on “Catalysis in confined nanospace” in IISER-Mohali in October 2015.
104) Invited lecture on “Self-assembled 3D architectures and use of their confined space” in MTIC conference held at Jadavpur University, Dec 2015.
105) Invited lecture on “Functional coordination architectures” in an International conference on nanomaterials held at Gitam University (Vishakapatnam), December 2015.
106) Invited lecture on “Supramolecular Chemistry” in DSU University Bangalore in December 2015.
107) Invited lecture on “Organic Reactions in Confined Nanospace” in annual meeting of the Indian Chemical Society held at Jaipur University in December 2015.
108) Invited lecture on “Catalysis in confined nanospace” in a national conference on supramolecular chemistry and nanomaterials held at Gujarat Forensic University in January 2016.
109) Invited lecture on “Molecular Vessels” in CRSI annual meeting held at Chandigarh in February 2016.
110) Invited lecture on “3D coordination Cages” in a national symposium held at Visva Bharati University in March 2016.
111) Invited lecture on “Functional Molecular Nanovessels” in an international conference (ISCAN 2016) organized by IISER Trivandrum in March 2016.
112) Invited lecture on “Chemical reactions in molecular cages” in an international workshop on “Chemical reactions under external fields” held at Xiamen University (China) in April 2016.
113) Invited lecture on “Molecular Nanovessels” in IISC-HUJI joint symposium held at University of Jerusalem (Israel) in April 2016.
114) Invited lecture on “Molecular Nanovessels and Molecular Marriage” at IIT-Guwahati in April 2016.
115) Invited lecture on “Chemical Reactions in Nanovessels” at IISER-Pune in April 2016.
116) Invited lecture on “Self-Assembled Molecular Nanovessels” in International Symposium on Macrocyclic and Supramolecular Chemistry held in Seoul (South Korea) in July 2016.
117) Invited lecture on “Chemical Reactions in Confined Space and Self-Sorting in Organic Cage formation” at Ulsan University (South Korea) in July 2016.
118) Invited lecture on “Chemical Reactions in Confined Space and Molecular Marriage” at UNIST (South Korea) in July 2016.
119) Invited colloquium on “Chemical Reactions in Confined Space” at TIFR Mumbai in Aug 2016.

120) Invited lecture on “Supramolecular chemistry” in a UGC National seminar organized by Haldia Govt. College in Aug 2016.
121) Invited lecture on “Molecular vessels and molecular marriage” at IISER Bhopal in September 2016.
122) Invited lecture on “Molecular Marriage” in a one-day symposium held at IIT-Kanpur in October 2016.
123) Invited lecture on “Nanovessels” in an Indo-German conference held at Khajuraho in November 2016.
124) Invited lecture on “Supramolecular Coordination –An Introduction” at University of Munster, Germany in November 2016.
125) Invited lecture on “Catalysis in confined nanospace” at University of Munster, Germany in November 2016.
126) Invited lecture on “Supramolecular sensors and self-sorting in cage formation” at University of Munster, Germany in November 2016.
127) Invited colloquium on “Supramolecular Coordination Architectures” at IISER Trivandrum in Dec 2016.
128) Invited lecture on “Cage catalysis” at a conference “Recent Trends in Organometallic Chemistry” held in Trivandrum in Dec 2016.
129) Invited lecture on “Molecular Vessels” in “Chemical Science” session of SABIC conference held in Kolkata in Jan 2017.
130) Invited lecture on “Catalysis in confined space” at an ACS On-campus event held at IISER Pune in Jan 2017.
131) Invited Plenary lecture on “Self-assembled molecular flasks” at a national symposium held at National Forensic University, Gandhinagar in Jan 2017.
132) Invited lecture at Kalna College on “Engineering nano-molecules” Feb 2017.
133) Invited lecture on “Molecular vessels” at Jadavpur University in UGC-CAS symposium, Feb 2017.
134) Invited lecture on “Functional Coordination Assemblies” at IIT-Patna, Feb 2017.
135) Invited lecture on “Molecular Nano-flasks” in a symposium organized by NIT-Patna, Feb 2017.
136) Invited lecture on “Supramolecular materials” at National Taiwan University in February 2017
137) Invited lecture on “Self-sorting and coordination flasks” at National Tsing-Hua University, Taiwan, in Feb 2017.
138) Invited lecture on “Molecular nano-vessels” at Academia Sinica, Taiwan in Feb 2017.
139) Invited Plenary lecture on “Molecular Vessels” at Chandigarh Science Congress, Punjab University, March 2017.
140) Invited lecture on “Supramolecular architectures” at IIT-Ropar, March 2017.
141) Invited Plenary lecture on “Molecular self-assembly” at a conference held at Central University of Jharkhand in March 2017.
142) Invited lecture on “Functional supramolecules” at the BITS Pilani, April 2017.
143) Invited lecture on “Chemistry in confined space” at Organic Chemistry Institute, University of Essen (Germany), May 2017
144) Invited lecture on “Catalysis in confined self-assembled cages” at Institute of Organic Chemistry, Siegen University (Germany), May 2017
145) Invited lecture on “Molecular vessels” at Institute of Inorganic Chemistry, Technical University Dortmund (Germany), June 2017

146) Invited lecture on “Chemistry in confined space” at the Institute of Organic Chemistry, University of Heidelberg (Germany), June 2017
147) Invited lecture on “Molecular Flasks” at the Kekule Institute of Organic Chemistry, University of Bonn (Germany), June 2017
148) Invited lecture on “Chemical Reactions in Confined Nanospace” at Otto Diels Institute of Organic Chemistry, University of Kiel (Germany), July 2017
149) Invited Plenary lecture on “Supramolecular Chemistry” at JBNST, Kolkata, April 2017.
150) Invited lecture on “Molecular flasks” at TDB College on the occasion of its diamond jubilee celebration, Aug 2017.
151) Invited lecture on “Self-assembled molecular vessels” at “Chemical Frontiers” conference held in Goa in Aug 2017.
152) Invited lecture on “Coordination flasks” at a conference on structural chemistry held at IISER Kolkata in Aug 2017.
153) Invited lecture on “Supramolecular Chemistry” in an INSPIRE programme at Visva Bharati University, Sept 2017.
154) Invited lecture on “Chemistry in confined space” at a national conference organized by INST-Mohali in Sept 2017.
155) Invited lecture on “Chemistry in self-assembled cages” at IISER Kolkata in October 2017.
156) Invited lecture and interactive session on “Scope of Inorganic Chemistry” at IIT-Madras, October 2017.
157) Invited lecture on “Chemistry in confined nanospace” at a symposium in IIT-Kharagpur, November 2017.
158) Invited lecture on “Catalysis in a greener way” in a Humboldt Kolleg held at Kolkata in Feb 2018.
159) Invited Plenary lecture on “Chemistry in Confined Space” in a Supramolecular Chemistry conference held at Gujarat Forensic University in Feb 2018.
160) Invited Special lecture on “Chemistry in confined nanospace of molecular architectures” in New York University, Abu-Dhabi in Feb 2018.
161) Invited Keynote lecture on “Supramolecular self-assembly of discrete architectures” at Mumbai University in March 2018.
162) Invited lecture at Dalian University of Technology (China) on “Chemistry in confined space of molecular assemblies” in May 2018
163) Invited lecture on “Chemistry in confined nanospace” at Tsinghua University (Beijing, China) in May 2018.
164) Invited lecture on “Chemistry in confined cages” at NIMHANS (Bangalore) in June 2018.
165) Invited lecture on “chemical transformation in cages” at an international conference organized by IISER Trivandrum in July 2018.
166) Invited lecture on “Chemistry in confined molecular barrels” at ICCC-2018 held in Sendai (Japan) in Aug 2018.
167) Invited lecture on “Supramolecular coordination architectures” at IISER Kolkata in August 2018.
168) Invited lecture on “Catalysis in confined molecular space” in a symposium on catalysis held at CSMCRI, Bhavnagar (Gujarat), September 2018.
169) Invited “Despande National Award Lecture” in Indore, October 2018.
170) Lecture on “Chemistry in confined nanospace” at IIT-Indore, October 2018.
171) Invited lecture on “Chemistry in molecular flasks” at NIT-Srinagar, October 2018.

172) Invited lecture on “Chemistry in confined space” at Shanghai Jiatong University (China) in November 2018.
173) Invited lecture on “Chemistry in confined space” at Fujian Institute of Structure of Matter (China) in November 2018.
174) Invited lecture on “Chemistry in the confined pocket of coordination and organic cages” at Central China Normal University, Wuhan (China) in November 2018.
175) Invited lecture on “Chemistry in confined space” at Xi’An Jiatong University (China) in November 2018.
176) Invited lecture on “Catalysis in molecular vessels” at Northwest University (China) in November 2018.
177) Invited lecture on “Chemical reactions in molecular vessels” at an International Conference (ICOC-2018) held at Goa in Dec. 2018.
178) Invited lecture on “Chemistry in self-assembled molecular architectures” in a symposium RDC-2018 held at NIT-Durgapur in Dec. 2018.
179) Invited lecture on “Supramolecular coordination” in a science academy workshop held at NIT Rourkela in Jan 2019.
180) Invited lecture on “Molecular Barrels” in a workshop organized by Vidyasagar University (Midnapur) in Jan 2019.
181) Invited “S S Bhatnagar” name lecture at IIT-Ropar in Jan 2019 on “Catalysis in molecular vessels”.
182) Invited lecture in a symposium on “Supramolecular Chemistry and Application” organized by Tata Steel in Feb 2019.
183) Invited lecture at Tokyo Institute of Technology (Japan) on “Chemistry in molecular cages” in Feb 2019.
184) Invited lecture at NIMS, Tsukuba (Japan) on “Chemistry in molecular cages” in Feb 2019.
185) Invited lecture at the University of Tokyo (Japan) on “Stereoselective reactions in confined space” in Feb 2019.
186) Invited lecture at IIT-Kharagpur on “Chemistry in molecular vessels” in March 2019.
187) Invited lecture at IIT-Bombay on “Chemical transformations in confined nanospace” in April 2019.
188) Invited lecture at IIT-Bhuvaneswar on “Chemical reactions in confined nanospace” in April 2019.
189) Invited lecture at Kyungpook National University (South Korea) on “Chemistry in molecular nano-vessels” in May 2019.
190) Invited lecture at Chonnam National University (South Korea) on “Chemistry in molecular nano-vessels” in May 2019.
191) Invited lecture at Korea University (South Korea) on “Unusual behavior of photochromic compounds in confined space” in May 2019.
192) Invited lecture at Seoul National University (South Korea) on “Catalysis in confined nanospace” in May 2019.
193) Invited lecture at JBNSTS (Kolkata) on “Supramolecular Coordination and its Application” in June 2019.
194) Invited lecture at IIT-Indore on “Chemical transformations in coordination flasks” in a conference to celebrate 10^{th} year of IIT-Indore (July 2019).
195) Invited lecture on “Supramolecular Coordination” at NIT-Manipur in August 2019.

196) Invited lecture on “Chemistry in confined space” In Russia in an international conference on organometallic chemistry and supramolecular chemistry to mark the international year of periodic table in September 2019.
197) Invited lecture on “Self-assembled molecular vessels” at Northwest University in Xi’an (China) in a China-German symposium in supramolecular chemsitry in September 2019.
198) Invited lecture on “Supramolecular Coordination” at Xi’an Jiatong University (China) in September2019.
199) Invited lecture on “Chemistry in molecular vessels” at Xi’an Shanxi national University (China) in September2019.
200) Invited lecture on “photochemical transformations in molecular barrels” at Asian Conference on Coordination Chemistry (ACCC-7) in Kuala Lumpur, October 2019.