

Complete List of Publications

Citation Data: Total Publications: 237; Total Citations: 18,548; Average Citations per paper: 69.29.
h-index: 72; i10-index: 208

Summary of publications:

- A) American Chemical Society's journals: Total publications: 99 (Inorg.Chem.-50, JOC-5, JACS-22, JACS-Au: 4, Orgmet-7, Chem. Rev. 2, Acc. Chem. Res. 1, Cryst Growth & Des. 3, ACS Omega 1, ACS Catalysis 2, Chem. Mater. 1, ACS-AMI. 1)
- B) Royal Society's journals: Total publications: 66 (Chem. Sci. 8, ChemComm: 25, 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: 43 (Angew Chem.: 14, Chem. Eur. J: 23, Eur J IC: 4, 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: 06

Google Scholar Citation Link:

<https://scholar.google.com/citations?hl=en&pli=1&user=6szY5wQAAAAJ>

	Authors	Title	Journal
237	P. K. Maitra, V. A. Rinshad, N. Hickey, P. S. Mukherjee	Selective photocatalytic oxidative cleavage of terminal alkynes to carboxylic acids within a water-soluble Pd ₆ nanocage	Chem. Sci. 2026, 17, accepted article. SC-EDG-10-2025-008202.R1
236	D. Prajapati, N. Kaur, P. K. Maitra, V. A. Rinshad, M. De, P. S. Mukherjee	Dual-Function Antibacterial and Antibiofilm Agent Based on a Confinement-Activated Fluorescent System in Water	Angew Chem. Int. Ed. 2025, 65, e21285.

235	S. Kumar, D. Prajapati, P. Singh, S. Ali, A. Panda, P. S. Mukherjee , V. Kaliginedi	Probing Host-Guest Interactions via Conductance and Thermopower Measurements	Angew Chem. Int. Ed. 2025 , 64, e202510782.
234	S. Dey, R. Banerjee, N. Hickey, P. S. Mukherjee	Post-Assembly Modification of a Pd ₆ Host and C ₇₀ Encapsulation to Enhance its ROS Mediated Terpene Oxidation Ability Under Visible Light	J. Am. Chem. Soc. 2025 , 147, 23904.
233	M. Aggarwal, S. Pradhan, P. S. Mukherjee	Aqueous Separation of Styrene from Ethylbenzene Using a Water-Soluble Cyclophane	Angew Chem. Int. Ed. 2025 , 64, e202511368.
232	R. Banerjee, P. Bhandari, N. Hick, P. S. Mukherjee	Guest-Shape Directed Structural Switching Between Two Isomers of a Pd ₆ Host and its Structural Adaptability for Selective Photodimerization	J. Am. Chem. Soc. 2025 , 147, 23049-23059.
231	S. Ali, D. Chakraborty, P.S. Mukherjee	Host-guest interaction-induced selective oxidation of substrate inside aqueous Pd ₆ L ₄ cage	Chem. Sci. 2025 , 16, 15396-15403.
230	R. Banerjee, M. Ray, M. Aggarwal, S. Maji, D. Adhikari, P. S. Mukherjee	Transformation of a Pd ₆ trifacial barrel to a Pd ₈ tetrafacial barrel by C ₇₀ as guest and oxidative photolysis of alkenes using the C ₇₀ encapsulated barrel under red light	Chem. Sci. 2025 , 16, 12885 – 12895.
229	V. A. Rinshad, P.K. Mitra, S. Pradhan, Y.A. Lakshmana, P.S. Mukherjee	Modulation of Photoluminescence of BODIHY Dye Using Water-Soluble Coordination Cages with Different Shapes	Angew Chem. Int. Ed. 2025 , 64, e202505772.

228	M. Agarwal, R. Banerjee, N. Hickey, P. S. Mukherjee	Formation of a Pd ₁₆ Molecular Basket Architecture of Reduced Symmetry and Angular Deviation in a Fluorenone Scaffold to Govern the Host–Guest Chemistry of Pd ₆ Trifacial Tubes	JACS-Au, 2025, 5, 2368-2378.
227	V. A. Rinshad, S. Ali, N. Hickey, P. S. Mukherjee	Chemo-Selective Transformation of Anthracene Derivative within Water-Soluble Coordination Cages Having Different Cavities	Inorg. Chem. 2025, 64, 5619.
226	S. Ali, V. A. Rinshad, P. S. Mukherjee	Solvent and concentration induced topological transformation of a Ru(II) based trigonal prism to a triply interlocked cage	Inorg. Chem. 2024, 63, 21423.
225	M. Bashri, S. Kumar, P. Bhandari, S. Stephen, M. O'Connor, S. Gaber, T. Skorjanc, M. Finšgar, G. Luckachan, B. Belec, E. Alhseinat, P. S. Mukherjee , D. Shetty, Dinesh	Hydrazone-Linked Covalent Organic Framework Catalyst via Efficient Pd-recovery from Wastewater	ACS Appl. Mater. & Interfaces 2025, 17, 17804.
224	M. Aggarwal, R. Banerjee, N. Hickey, P. S. Mukherjee	Stimuli-Mediated Structural Interchange Between Pd ₆ and Pd ₁₂ Architectures: Selective Recognition of E-Stilbene by the Pd ₆ Architecture and its Photoprotection	Angew Chem. Int. Ed. 2024, 63, e202411513.
223	V. A. Rinshad, M. Aggarwal, J. Clegg, P. S. Mukherjee	Harnessing Pd ₄ Water-Soluble Molecular Capsule as a Size-Selective Catalyst for Targeted Oxidation of Alkyl Aromatics	JACS-Au, 2024, 4, 3238-3247.
222	D. Chakraborty, N. Kaur, J. Sahoo, N. Hickey, M. De, P. S. Mukherjee	Host-Guest Interactions Induced Enhancement of Oxidase-like Activity of	J. Am. Chem. Soc. 2024, 146, 24901-24910.

		Benzothiadiazole Dye Inside an Aqueous Pd ₈ L ₄ Barrel	
221	D. Prajapati, J. K. Clegg, P. S. Mukherjee	Formation of low-symmetric Pd ₈ molecular barrel employing a hetero donor tetradentate ligand and its use in binding and extraction of C ₇₀	Chem. Sci. 2024 , 15, 12502-12510.
220	P. K. Maitra, S. Bhattacharyya, N. Hickey, P. S. Mukherjee	Self-assembly of a water-soluble Pd ₁₆ square bicupola architecture and its use in aerobic oxidation in aqueous media	J. Am. Chem. Soc. 2024 , 146, 15301-15308.
219	S. Dey, M. Aggarwal, D. Chakraborty, P. S. Mukherjee	Uncovering tetrazoles as building blocks for constructing discrete and polymeric assemblies	Chem. Commun. 2024 , 60, 5573-5585.
218	D. Chakraborty, S. Pradhan, J. Clegg, P. S. Mukherjee	Mechanically Interlocked Water-Soluble Pd ₆ Host for the Selective Separation of Coal Tar Based Planar Aromatic Molecules	Inorg. Chem. 2024 , 63, 14924-14932. Highlighted on the front cover of the issue.
217	D. Bokotial, K. Acharyya, A. Chowdhury, P. S. Mukherjee	Pt(II)/Pd(II)-based Metallosupramolecular Architectures as Light Harvesting Systems and their Applications	Angew Chem. Int. Ed. 2024 , 63, e202401136.
216	D. Prajapati, P. Bhandari, E. Zangrando, P. S. Mukherjee	A water-soluble Pd ₄ molecular tweezer for selective encapsulation of isomeric quinones and their recyclable extraction.	Chem. Sci. 2024 , 15, 3616-3624.
215	P. K. Maitra, S. Bhattacharya, P. P. Chaudhury, P. S. Mukherjee	Coordination-induced Emissive Poly-NHC Derived Metallacage for Pesticide Detection	Inorg. Chem. 2024 , 63, 2569-2576.
214	P. Bhandari, S. Ahmed, R. Saha, P. S. Mukherjee	Enhancing Fluorescence in Both Solution and Solid States	Chem. Eur. J. 2024 , 30, e202303101.

		Induced by Imine Cage Formation	
213	A. Sainaba, R. Saha, M. Venkateswarulu, E. Zangrando, P. S. Mukherjee	A Pt(II) Tetrafacial Barrel with Aggregation Induced Emission for Sensing	<i>Inorg. Chem.</i> 2023 , 62, 508-517.
212	A. Sainaba, M. Venkateswarulu, P. Bhandari, J. Clegg, P. S. Mukherjee	Self-Assembly of an [M ₈ L ₂₄] ¹⁶⁺ Intertwined Cube and a Giant [M ₁₂ L ₁₆] ²⁴⁺ Orthobicupola	<i>Angew Chem. Int. Ed.</i> 2024 , 63, e202315572.
211	D. Chakraborty, S. Ali, P. Chowdhury, N. Hickey, P. S. Mukherjee	Cavity Shape Dependent Divergent Chemical Reaction Inside Pd ₆ L ₄ Cages	<i>J. Am. Chem. Soc.</i> 2023 , 145, 26973-26982.
210	P. Chaudhuri, P. K. Maitra, S. Bhattacharyya, P. S. Mukherjee	Rigidification-Induced Emissive Metal–Carbene Complexes for Artificial Light Harvesting	<i>Inorg. Chem.</i> 2023 , 62, 11037-11043.
209	R. Banerjee, S. Bhattacharyya, P. S. Mukherjee	Synthesis of an Adaptable Molecular Barrel and Guest Mediated Stabilization of its Metastable Higher Homologue	<i>JACS-Au</i> , 2023 3, 1998-2006.
208	D. Prajapati, P. Bhandari, H. Neil, P. S. Mukherjee	A Water-Soluble Pd ₆ L ₃ Molecular Bowl for Separation of Phenanthrene from a Mixture of Isomeric Aromatic Hydrocarbons	<i>Inorg. Chem.</i> 2023 , 62, 9230-9239.
207	R. Banerjee, D. Chakraborty, W.T. Jhang, Y. T. Chan, P. S. Mukherjee	Structural Switching of a Distorted Trigonal Metal–Organic Cage to a Tetragonal Cage and Singlet Oxygen Mediated Oxidations	<i>Angew Chem. Int. Ed.</i> 2023 , 61, e202305338.
206	P. Bhandari and P. S. Mukherjee	Covalent Organic Cages in Catalysis	<i>ACS Catalysis</i> . 2023 , 13, 6126-6143.
205	R. Banerjee, D. Chakraborty, P. S. Mukherjee	Molecular Barrels as Potential Hosts: From Synthesis to Applications	<i>J. Am. Chem. Soc.</i> 2023 , 145, 7692.
204	S. Ahmed, A. Kumar, P. S. Mukherjee	Benzothiadiazole-based Pt(II) coordination polymer as efficient heterogeneous photocatalyst for visible-light-	<i>Chem. Commun.</i> 2023 , 59, 3229–3232.

		driven aerobic oxidative coupling of amines	
203	V. Rinshad, J. Sahoo, M. Venkateswarulu, N. Hickey, M. De, P. S. Mukherjee	Solvent Induced Conversion of a Self-Assembled Gyrobifastigium to a Barrel and Encapsulation of Zinc-Phthalocyanine within the Barrel for Enhanced Photodynamic Therapy	Angew Chem. Int. Ed. 2023 , 61, e202218226.
202	R. Saha, J. Sahoo, M. Venkateswarulu, M. De, P. S. Mukherjee	Shifting Triangle-Square Equilibrium of Self-Assembled Metallocycles by Guest Binding with Enhanced Photosensitization	Inorg. Chem. 2022 , 61, 17289-17298.
201	D. Chakraborty, R. Saha, J. Clegg, P. S. Mukherjee	Selective separation of planar and non-planar hydrocarbons using an aqueous Pd ₆ interlocked cage	Chem. Sci. 2022 , 13, 11764-11771.
200	S. Ahmed, A. Kumar, P. S. Mukherjee	Supramolecular Coordination Polymer Towards Artificial Light-Harvesting Systems with Sequential Energy Transfer	Chem. Mater. 2022 , 34, 9656-9665.
199	S. Ahmed, P. Howlader, S. Bhattacharyya, S. Mondal, E. Zangrando, P. S. Mukherjee	Fluorescence enhancement via structural rigidification inside a self-assembled Pd ₄ molecular vessel	Chem. Commun. 2022 , 58, 11390.
198	P. Bhandari, P. S. Mukherjee	Post-Synthesis Conversion of an Unstable Imine Cage to a Stable Cage with Amide Moieties towards Selective Receptor for Fluoride	Chem. Eur. J. 2022 , 28, e202201901.
197	P. Howlader, S. Ahmad, S. Mondal, E. Zangrando, P. S. Mukherjee	Conformation-Selective Self-Assembly of Pd ₆ Trifacial Molecular Barrels Using a Tetra-pyridyl Ligand	Inorg. Chem. 2022 , 61, 8121.
196	B. S. Arppitha, M. Venkateswarulu, P. Bhandari, K. S. A. Arachchige, J.	An Adaptable Water-Soluble Molecular Boat for Selective Separation of Phenanthrene from Isomeric Anthracene	J. Am. Chem. Soc. 2022 , 144, 7504.

	Clegg, P. S. Mukherjee		
195	D. Chakraborty, P. S. Mukherjee	Recent Trends in Organic Cage Synthesis: Push Towards Water-Soluble Organic Cages	Chem. Commun. 2022 , 58, 5558-5573. (Invited Contribution)
194	R. Saha, B. Mondal, P. S. Mukherjee	Molecular Cavity for Catalysis and Formation of Metal Nanoparticles for Use in Catalysis	Chem. Rev. 2022 , 122, 12244-12307. (Invited Contribution)
193	K. Acharyya, S. Bhattacharyya, S. Lu, Y. Sun, P. S. Mukherjee, P. J. Stang	Emissive Platinum(II) Macrocycles as Tunable Cascade Energy Transfer Scaffolds	Angew Chem. Int. Ed. 2022 , 61, e202200715.
192	A. Kumar, R. Banerjee, E. Zangrando, P. S. Mukherjee	Solvent and Counter-anion Assisted Dynamic Self-Assembly of Molecular Triangles and Tetrahedral Cages	Inorg. Chem. 2022 , 61, 2368-2377.
191	P. Bhandari, B. Mondal, P. Howlader, P. S. Mukherjee	Face-Directed Tetrahedral Organic Cage Anchored Palladium Nanoparticles for Selective Homocoupling Reaction	Eur. J. Inorg. Chem. 2022 , e202100986.
190	P. P. Choudhury, M. Venkateswaralu, S. Bhattacharyya, P. S. Mukherjee	Silver(I) – Carbene Bond Directed Rigidification Induced Emissive Metallacage for Picric Acid Detection	Inorg. Chem. 2022 , 61, 713-722.
189	P. Bhandari, R. Modak, S. Bhattacharya, E. Zangrando, P. S. Mukherjee	Self-assembly of Octanuclear Pt/Pd-Coordination Barrels and Uncommon Structural Isomerization of a Photochromic Guest	JACS-Au, 2021 1, 2242-2246.
188	P. Choudhury, M. Maity, S. Bhattacharyya, P. S. Mukherjee	A Self-Assembled Pd(II) Barrel for Binding of Fullerenes and Photosensitization Ability of the Fullerene Encapsulated Barrel	Angew Chem. Int. Ed. 2021 , 60, 14109.
187	D. Chakraborty, R. Modak, P. Howlader, P. S. Mukherjee	<i>De novo</i> approach for the synthesis of water-soluble	Chem. Commun. 2021 , 57, 3995-3997.

		interlocked and non-interlocked organic cages	
186	A. Kumar, R. Saha, P. S. Mukherjee	Self-assembled metallasupramolecular cages towards light harvesting systems for oxidative cyclization	Chem. Sci. 2021 , <i>12</i> , 5319-5329.
185	P. Howlader, S. Mondal, S. Ahamad, P. S. Mukherjee	Guest-Induced Enantioselective Self-Assembly of a Pd ₆ Homochiral Octahedral Cage with a C ₃ -Symmetric Pyridyl Donor	J. Am. Chem. Soc. 2020 , <i>142</i> , 20968-20972.
184	S. Bhattacharyya, S.K. Ali, M. Venkateswarulu, P. Howlader, E. Zangrando, M. De, P. S. Mukherjee	Self-Assembled Pd ₁₂ Coordination Cage as Photoregulated Oxidase-Like Nanozyme	J. Am. Chem. Soc. 2020 , <i>142</i> , 18981-18989
183	P. Howlader, P. Bhandari, D. Chakraborty, J. K. Clegg, P. S. Mukherjee	Self-Assembly of a Pd ₈ Macrocycle and Pd ₁₂ Homochiral Tetrahedral Cages Using Poly(tetrazolate) Linkers	Inorg. Chem. 2020 , <i>59</i> , 15454-15459.
182	B. Mondal, P. Bhandari, P. S. Mukherjee	Nucleation of Tiny Silver Nanoparticles Using a Tetrafacial Organic Molecular Barrel for Potential Use in Visible Light Triggered Photocatalysis	Chem. Eur. J. 2020 , <i>26</i> , 15007-15015.
181	S. Bhattacharyya, M. Venkateswarulu, J. Sahoo, M. De, P. S. Mukherjee	A Self-assembled Pt ^{II} ₈ Metallosupramolecular Tubular Cage as Dual Warhead Antibacterial Agent in Water	Inorg. Chem. 2020 , <i>59</i> , 12690-12699.
180	P. Howlader, E. Zangrando, P. S. Mukherjee	Self-Assembly of Enantiopure Pd ₁₂ Tetrahedral Homochiral Nanocages with Tetrazole Linkers and Chiral Recognition	J. Am. Chem. Soc. 2020 , <i>142</i> , 9070. (Featured on the Front Cover of the JACS issue) Highlighted by the ACS as JACS-Spotlights

179	A. Kumar, P. S. Mukherjee	Multicomponent Self-Assembly of Pd(II)/Pt(II) Interlocked Molecular Cages: Cage to Cage Conversion and Self-Sorting in Aqueous Medium	Chem. Eur. J. 2020 , <i>26</i> , 4842.
178	S. Bhattacharya, M. Maity, A. Chaudhury, M. L. Saha, P. J. Stang, P. S. Mukherjee	Coordination Assisted Reversible Photoswitching of Spiropyran-Based Platinum Macrocycles	Inorg. Chem. 2020 , <i>59</i> , 2083-2091.
177	R. Saha, P. S. Mukherjee	Chemistry of photoswitching molecules in confined nanospace of aqueous molecular vessels	Dalton Trans. 2020 , <i>49</i> , 1716. (Invited Frontier Article)
176	W. B. Tolman, A. L. Balch, S. Bart, B. Cossairt, S. Dehnen, P. S. Halasyamani, H. Kageyama, F. Meyer, J. Morrow, P. S. Mukherjee , F. Nee se, P. P. Power, R. Sessoli, V. W. W. Yam, and H.-C. Zhou	What is Inorganic Chemistry? (Editorial)	Inorg. Chem. 2019 , <i>58</i> , 9515.
175	I. A. Bhat, E. Zangrando, P. S. Mukherjee	Coordination-Driven Self-Assembly of Discrete Molecular Nanotubular Architectures	Inorg. Chem. 2019 , <i>58</i> , 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 , <i>141</i> , 14565.
173	P. P. Chowdhury, S. Bhattacharyya, M. Maity, S. Mukhopadhyay, P. Howlader, P. S. Mukherjee	Linkage induced enhancement in fluorescence in metal-carbene bond directed metallacycles and cages	Chem. Commun. 2019 , <i>55</i> , 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 , <i>55</i> , 6711 - 6714
171	R. Saha, A. Devaraj, S. Bhattacharya, S.	Unusual behavior of Donor-Acceptor Stenhouse Adducts in	J. Am. Chem. Soc. 2019 , <i>141</i> , 8638.

	Das, E. Zangrando, P. S. Mukherjee	Confined Space of a Pd(II) Molecular Vessel	
170	A. Kumar, E. Zangrando and P. S. Mukherjee	Self-assembled Pd ₃ L ₂ cages having flexible tri-imidazole donors	Polyhedron, 2019, 172, 67. (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, 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, A. Chowdhury, P. S. Mukherjee	Aggregation Induced Emission and White Light Emission from a Combination of π -Conjugated Donor-Acceptor Organic Luminogens	ACS Omega, 2018, 3, 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	<i>Dalton Trans.</i> 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	<i>Chem. Eur. J.</i> 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	<i>J. Am. Chem. Soc.</i> 2018, 140, 7952.
157	R. Saha, A. K. Ghosh, R. Samajder, P. S. Mukherjee	Self-assembled molecular spheroids and their proton conduction	<i>Inorg. Chem.</i> 2018 57, 6540.
156	I. Sinha and P. S. Mukherjee	Chemical Transformations in Confined Space of Coordination Architectures	<i>Inorg. Chem.</i> 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	<i>Chem. Commun.</i> 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	<i>Chem. Eur. J.</i> 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	<i>Chem. Eur. J.</i> 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	<i>J. Org. Chem.</i> 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	<i>Chem. Eur. J.</i> 2017, 23, 8980.
150	I. A. Bhat, R. Jain, M. Siddiqui, D. Saini, P. S. Mukherjee	Water-soluble Pd ₈ L ₄ self-assembled molecular barrel as an aqueous carrier for hydrophobic curcumin	<i>Inorg. Chem.</i> 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	<i>Inorg. Chem.</i> 2017, 56, 3579
148	K. Acharyya, A. Chowdhury, B.	Building block dependent morphology modulation of cage	<i>Chem. Eur. J.</i> 2017, 23, 8482.

	Mondal, S. Chakraborty, P. S. Mukherjee	nanoparticles and detection of nitroaromatics	
147	S. Dasgupta and P. S. Mukherjee	Carboxylatopillar[n]arenes: A versatile class of water soluble synthetic receptors	Org. Biomol. Chem. 2017 , <i>15</i> , 762.
146	A. A. Ademeyo, A. Shettar, I. A. Bhat, P. Kondaiah, P. S. Mukherjee	Self-assembly of discrete Ru ₈ molecular cages and their in-vitro anticancer study	Inorg. Chem. 2017 , <i>56</i> , 608
145	Chowdhury and P. S. Mukherjee	Vinylnanthracene based compounds as electron rich sensors for explosives recognition	ChemPlusChem. 2016 , <i>82</i> , 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 , <i>7</i> , 5893.
143	A. Chowdhury, P. Howlader, P. S. Mukherjee	Aggregation induced emission of Pt(II) metallacycles and their nitroaromatics detection	Chem. Eur. J. 2016 , <i>22</i> , 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, R. Banerjee, P. S. Mukherjee	High loading of Pd nanoparticles by interior functionalization of molecular pockets for heterogeneous catalysis	Inorg. Chem. 2016 , <i>55</i> , 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 , <i>138</i> , 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 , <i>55</i> , 1562.
138	B. Mondal, K. Acharyya, P. Howlader, P. S. Mukherjee	Molecular cage imregnated Pd nanoparticles: Efficient additive-free heterogeneous catalysts for cyanation of aryl halides	J. Am. Chem. Soc. 2016 , <i>138</i> , 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 , <i>22</i> , 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	<i>Inorg. Chim. Acta.</i> 2016 , 440, 62
134	S. Shanmugaraju, P. S. Mukherjee	π -electron rich small molecule sensors for the recognition of nitroaromatics	<i>Chem. Commun.</i> 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	<i>RSC. Adv.</i> 2015 , 85791
132	B. Roy, S. Shanmugaraju, R. Saha, P. S. Mukherjee	Self-assembly of Metallamacrocycles Employing a New Benzil Based Organometallic Bisplatinum (II) Acceptor	<i>CHIMIA</i> , 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	<i>J. Am. Chem. Soc.</i> 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	<i>J. Am. Chem. Soc.</i> 2015 , 137, 9497
129	A. Chowdhuri, P. S. Mukherjee	Electron rich triphenylamine based sensors for picric acid detection	<i>J. Org. Chem.</i> 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	<i>Chem. Commun.</i> 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	<i>Chem. Eur. J.</i> 2015 , 21, 6823
126	K. Acharyya, P. S. Mukherjee	Shape and size directed self-selection in organic cage formation	<i>Chem. Commun.</i> 2015 , 51, 4241.
125	S. Shanmugaraju and P. S. Mukherjee	Self-assembling discrete molecules for sensing nitroaromatics	<i>Chem. Eur. J.</i> 2015 , 21, 6656

			(One of the most accessed articles 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	<i>J. Am. Chem. Soc.</i> 2014 , <i>136</i> , 17006
123	K. Acharyya and P. S. Mukherjee	A fluorescent organic cage for picric acid detection	<i>Chem. Commun.</i> 2014 , <i>50</i> , 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	<i>Cryst. Growth & Design.</i> 2014 , <i>15</i> , 4177
121	B. Gole, A. K. Bar and P. S. Mukherjee	Multicomponent assembly of fluorescent tag functionalized ligands in coordination frameworks for explosive sensing	<i>Chem. Eur. J.</i> 2014 , <i>20</i> , 13321
120	D. Samanta and P. S. Mukherjee	Component selection in self-assembly of Pd(II) nanocages and cage-to-cage transformation	<i>Chem. Eur. J.</i> 2014 , <i>20</i> , 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	<i>Chem. Eur. J.</i> 2014 , <i>20</i> , 13662
118	D. Samanta and P. S. Mukherjee	Self-assembled multicomponent Pd ₆ aggregates showing low-humidity proton conduction	<i>Chem. Commun.</i> 2014 , <i>50</i> , 1595.
117	S. Mukherjee and P. S. Mukherjee	Template free multicomponent self-assembly of Pd/Pt molecular cages	<i>Chem. Commun.</i> 2014 , <i>20</i> , 2239.
116	D. Samanta and P. S. Mukherjee	Structural diversity in multinuclear Pd(II)-assemblies: Potential materials for low-humidity proton conduction	<i>Chem. Eur. J.</i> 2014 , <i>20</i> , 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	<i>Chem. Eur. J.</i> 2014 , <i>20</i> , 2276.

114	K. Acharyya and P. S. Mukherjee	H-bond driven controlled molecular marriage in covalent cages	Chem. Eur. J. 2014 , <i>20</i> , 1646
113	S. Shanmugaraju, H. Jadhav and P. S. Mukherjee	Self-assembly of chloro-bridged ruthenium based rectangle: Synthesis, structural characterization and Sensing study	Proc. Ind. Nat. Sc. Acad. 2014 , <i>84</i> , 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 , <i>415</i> , 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 Phenylenediacetates and 1,3,5-tris(1-imidazolyl) benzene ligand: Synthesis, Structures, Magnetic and Luminescence Properties	Cryst. Growth & Des. 2013 , <i>14</i> , 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 , <i>42</i> , 16784.
108	S. Mukherjee and P. S. Mukherjee	Role of dicarboxylate linkers in Mn(III)-salicylaldoximate based extended molecular magnets	Chem. Eur. J. 2013 , <i>19</i> , 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 , <i>52</i> , 8294.
105	S. Ghosh, S. Mukherjee, P. Seth, A. Ghosh, P. S. Mukherjee	Solvent-Templated Supramolecular Isomerism in 2D Coordination Polymer Constructed by NiII ₂ CoII Node and Dicyanamido Spacer: Drastic Change in Magnetic Behaviors	Dalton Trans. 2013 , <i>42</i> , 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 Cu ₄ 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, Ravishankaran, 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° dipyrityl 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 Pd ₈ molecular swing and Pd ₆ 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 Pd ₁₂ 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 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 Cu^{I} -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	<i>Dalton Trans.</i> 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	<i>Inorg. Chim. Acta.</i> 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	<i>Organometallics</i> , 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	<i>Dalton Trans.</i> 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 ₃ L ₂ trigonal cages from preorganized metalloligands containing octahedral metal centers and fluorescent detection of nitroaromatics	<i>Inorg. Chem.</i> 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	<i>Inorg. Chem.</i> 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 controlling their dimensionality: Synthesis, structures and magnetic behavior	<i>Inorg. Chem.</i> 2010 , 49, 10658.
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	<i>Polyhedron</i> , 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	<i>Inorg. Chem.</i> 2010 , 49, 7647.
68	O. Sengupta, and P. S. Mukherjee	Tetrazole bridged multiferroic coordination polymers: Synthesis, structures and magnetic behavior	<i>Inorg. Chem.</i> 2010 , 49, 8583.
67	S. Shanmugamraju, A. K. Bar, K-W. Chi P. S. Mukherjee	Coordination driven self-assembly of metallamacrocycles via a new organometallic building block with 90° geometry and optical sensing of anions	<i>Organometallics</i> , 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	<i>Dalton Trans.</i> 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	<i>Dalton Trans.</i> 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)iminodiacetic acids as bridging ligands	<i>Inorg. Chim. Acta</i> , 2010 , 3093. (Invited article)
63	S. Mukherjee, B. Gole, R. Chakrabarty, P. S. Mukherjee	Cu(II)-azido polymers of Cu ₃ and Cu ₆ building units: synthesis, structures and magnetic exchange mechanism	<i>Inorg. Chem.</i> 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	<i>Dalton Trans.</i> 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	<i>Inorg. Chem.</i> 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	<i>Dalton Trans.</i> 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	<i>Organometallics</i>, 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	<i>Dalton Trans.</i> 2009, 6701.
57	K. C. Mondal, O. Sengupta, and P. S. Mukherjee	A rare homoacetylate bridged Cu ₄ half-cubane antiferromagnetic cluster	<i>Inorg. Chem. Comm.</i> 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	<i>Dalton Trans.</i> 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	<i>Inorg. Chem.</i> 2009, 48, 2605.
54	S. Ghosh, R. Chakrabarty, and P. S. Mukherjee	Design, Synthesis and Characterizations of a Series of Pt ₄ Macrocycles and Fluorescent Sensing of Cu ²⁺ /Ni ²⁺ Through Metal Coordination	<i>Inorg. Chem.</i> 2009, 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	<i>Angew. Chem. Int. Ed.</i> 2008, 47, 8455. <i>work highlighted in a Nature publishing group journal "Asia Materials" by the Editor of Nature Chemistry)</i>
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	<i>Inorg. Chim. Acta.</i> 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 Pt ₃ linker and its fluorescent detection of nitroaromatics	Organometallics , 2008 , 27, 316. [(a) This work was highlighted in a daily newspaper <i>The Telegraph</i> on 20 th 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	<i>Dalton Trans.</i> 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	<i>Chem. Commun.</i> 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	<i>Synthesis and reactivity of Inorganic, Metal-Organic, and Nano-metal Chemistry,</i> 2007 , 39,735 (Invited article)
38	S. Ghosh and P. S. Mukherjee	Self-assembly of molecular nanoballs: Design, synthesis and characterization	<i>J. Org. Chem.</i> 2006 , 71, 8412.
37	S. Ghosh and P. S. Mukherjee	The first Pt(II) TBP cage with ester functionality	<i>Tetrahedron Lett.</i> 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	<i>Dalton Trans.</i> 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	<i>Inorg. Chim. Acta.</i> 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	<i>Inorg. Chim. Acta.</i> 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	<i>J. Org. Chem.</i> 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	<i>J. Am. Chem. Soc.</i> 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	<i>Eur. J. Inorg. Chem.</i> 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	<i>Inorg. Chem.</i> 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	<i>Indian J. Chemistry</i> 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	<i>Indian J. Chemistry</i> (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	<i>J. Am. Chem. Soc.</i> 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	<i>Inorg. Chem.</i> 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	<i>Inorg. Chem.</i> , 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)	<i>Indian J. Chem.</i> , 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	<i>Dalton Trans.</i> , 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)	<i>Dalton Trans.</i> , 2002 , 3471.
21	S. Konar, P. S. Mukherjee , E. Zangrando, F. Lloret, and N. Ray Chaudhuri	A 3-D homometallic molecular ferrimagnet	<i>Angew. Chem. Int. Ed.</i> , 2002 , 41, 1561
20	P. S. Mukherjee , S. Dalai, T. Mallah, N. Ray Chaudhuri	A doubly end-to-end azido 1D ferromagnetic chain	<i>Inorg.Chem.Comm.</i> , 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	<i>New J. Chem.</i> , 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	<i>Eur. J. Inorg. Chem.</i> , 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	<i>Eur. J. Inorg. Chem.</i> , 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	<i>Inorg. Chim. Acta</i> , 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) ₄ ²⁻	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. Mukherjee , 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 Ligands	Eur. J. Inorg. Chem. 2002 , 3292.
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 μ -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.

Editorial

"Special Issue: Self-assembled Molecules/Materials"

P. S Mukherjee

CHEMICAL RECORD Volume: 21 Issue: 3 Special Issue: SI Pages: 441-442 .

Book Chapters

- 1) Book Chapter on "*Pd/Pt-ethynyl bond containing molecular architectures as sensors for nitroaromatics*"
Molecular Self-Assembly: Advances and Applications
Pan Stanford Publishing Pte. Ltd. 2011, Chapter-9
S. Pramanik, S. Shanmugaraju, **P. S. Mukherjee**
- 2) Applications of Self-Assembled Metallomacrocycles II: Catalysis and Sensing
L. Xu, Yi-Xiong Hu, **P. S. Mukherjee**
Self-Assembled Metallacycles
RSC, 2019, Chapter-10.
- 3) Self-assembled discrete coordination architectures towards biological applications
A. Banerjee and **P. S. Mukherjee**
Adv. Inorg. Chem. **2023**, 82, 345-387. (Invited book chapter to the Special Volume devoted to 'Inorganic Chemistry in India')