UNIVERSITY OF CALCUTTA

ACADEMIC DEPARTMENT: CHEMISTRY

FACULTY ACADEMIC PROFILE/ CV

1. **Full name of the faculty member**: Sasankasekhar Mohanta
2. **Designation**: Professor
3. **Specialisation** : Inorganic Chemistry
4. **Passport size photograph** :

5. **Contact information** :
Department of Chemistry, University of Calcutta, 92 A. P. C. Road, Kolkata 700 009. E-Mail: sm_cu_chem@yahoo.co.in. Mobile: 9433883751.
6. **Academic qualifications**:

College/ university from which the degree was obtained	Abbreviation of the degree
Ramakrishna Mission Residential College, Narendrapur (Affiliated to University of Calcutta)	B. Sc. (Chemistry)
University of Calcutta	M. Sc. (Chemistry; Inorganic Chemistry Specialization)
Indian Association for the Cultivation of Science, IACS (Degree awarded from Jadavpur University)	Ph. D. (Sc.) **Thesis Title:** Magnetic Properties of Phenoxo-Bridged Polynuclear Macrocyclic Complexes **Supervisor:** Prof. Kamalaksha Nag, FNA, FASc. Department of Inorganic Chemistry, IACS

7. **Positions held/ holding:**

(i) February 1997 – July 1997: Lecturer in Chemistry, Ramakrishna Mission Residential College, Narendrapur (Affiliated to University of Calcutta).
(ii) August 1997 – Till Date : Lecturer, Senior Lecturer, Reader, Associate Professor and **presently Professor** in Department of Chemistry, University of Calcutta.

8. **Research interests**:

- Molecular Magnetism
- Crystal Engineering
- Cocrystals of Metal Complexes
- Copper(II)/Nickel(II)/Iron(III) Metallo–Ligand + Second Metal Ion / Other Species
- Robson Type Unsaturated and Saturated Macrocyclic Chemistry
- Heterometallic Chemistry: 3d–s/p/3d/d^{10}/4f/5f
  (s: Li^{I}, Na^{I}, K^{I}, Rb^{I}, Cs^{I}, Mg^{II}, Ca^{II}, Sr^{II}, Ba^{II}; p: Tl^{I}, Pb^{II}, Bi^{III}, In^{III}; 3d: Cu^{II}, Ni^{II}, Co^{II}, Fe^{II}, Mn^{II}, Fe^{III}; d^{10}: Zn^{II}, Cd^{II}, Hg^{II}, Ag^{I}; 4f: 12 Lanthanides Ce^{III} – Yb^{III}; 5f: Uranyl).
- Biomimetic Inorganic Chemistry
- Steady State and Time-Resolved Photophysical Properties
- Coordination Chemistry

9. **Research guidance** :

Number of researchers awarded M.Phil/ Ph.D degrees : **Thirteen** researchers awarded Ph. D. (Sc.) degree and **Two** researchers submitted their thesis.
Number of researchers pursuing M.Phil/ Ph.D : **Four** researchers pursuing Ph. D. (Sc.)
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10. **Projects :**

Completed projects :

Project Title	**Funding Agency**	**Duration**
Structural, Magnetic and Biomimetic Aspects of Designed Di- and Oligonuclear Metal Complex Assemblies	DST, Government of India	2012 – 2015
Properties of 3d and 3d-4f Molecular Assemblies: Structural, Magnetic and Electrochemical studies	DST, Government of India	2008 –.2011
Syntheses and Magnetic Properties of Exchange-Coupled 4f-3d and 4f-Nitroxide (Nitronyl or Imino) Systems: Empirical and Analytical Approach	DST, Government of India	2003 – 2007

Current projects : NIL

11. **Select list of publications**:

a) ***Journals: (Selected Publications):***

2019

119.	Structural Diversity in Heterometallic 3d–Tin Derivatives of Compartmental Schiff Bases Supported by Noncovalent Interactions Hazra, S.; **Mohanta, S.** *Coordination Chemistry Review* **2019** (Accepted); Invited; Special Issue in honour of Prof. Armando J. L. Pombeiro.
118.	Synthesis, Crystal Structure and Spectroscopic Properties of a New Type of Pentanuclear Zinc(II) Complex Hari, N.; Ghosh, S.; **Mohanta, S.** *Inorg. Chim. Acta*, **2019**, *491*, 34-41.

2018

117.	Experimental and Theoretical Exploration of Magnetic Exchange Interactions and Single Molecule Magnetic Behaviour of bis(η^1:η^2:μ_2-carboxylate) Gd^{III}_2/Dy^{III}_2 Systems Ghosh, S.; Mandal, S.; Singh, M. K.; Liu, C.-M.; Rajaraman, G.; **Mohanta, S.** *Dalton Transactions* **2018**, 47**,** 11455**–**11469.
116.	A Nickel(II)–Manganese(II)–Azido Layered Coordination Polymer Showing a Three-Dimensional Ferrimagnetic Order at 35 K Ghosh, S.; Roy, S.; Liu, C.-M.; **Mohanta, S.** *Dalton Transactions* **2018**, 47, 836–844.
115.	Syntheses, Crystal Structures and Magnetic Properties of a Series of $Zn^{II}_2Ln^{III}_2$ Compounds (Ln = Gd, Tb, Dy, Ho and Er): Contrasting Structural and Magnetic Features Ghosh, S.; Hari, N.; Pinkowicz, D.; Fitta, M.; **Mohanta, S.** *New Journal of Chemistry*, **2018**, *42*, 15917–15929.
114.	Syntheses, Crystal Structures, Magnetic Properties and ESI-MS Studies of a Series of Trinuclear $Cu^{II}M^{II}Cu^{II}$ Compounds (M = Cu, Ni, Co, Fe, Mn, Zn) Hari, N.; Mandal, S.; Sparkes, H. A.; **Mohanta, S.** *RSC Advances*, **2018**, *8***,** 7315–7329.
113.	Syntheses, Crystal Structures and Magnetic Properties of Two Heterobridged μ-Phenoxo-$\mu_{1,1}$-Azide/Isocyanate Dinickel(II) Compounds: Experimental and Theoretical Exploration Mandal, S.; Majumder, S.; Mondal, S.; **Mohanta, S.** *European Journal of Inorganic Chemistry*, **2018**, 4556–4565.
112.	Single Crystal to Single Crystal Transformation and Magnetic Properties of a Series of 'Butterfly' $Ni^{II}_2Ln^{III}_2$ compounds: SMM behavior of the Dysprosium(III) analogue Mandal, S.; Ghosh, S.; Takahashi, D.; Christou, G.; **Mohanta, S.** *European Journal of Inorganic Chemistry*, **2018**, 2793–2804.
111.	Syntheses, Crystal Structures and Magnetic Properties of Heterodinuclear Nickel(II)–Manganese(II) Based One and Two-Dimensional Coordination Polymers: Magnetostructural Correlation

	Ghosh, S.; Hari, N.; **Mohanta, S.** *ChemistrySelect* **2018**, *3*, 9402–9408.
110.	Dinuclear, Dimer-of-Dinuclear and New Type of Polymeric Metal Complexes of Copper(II)–Zinc(II)/Cadmium(II) Derived from a Less Explored Compartmental Ligand Mandal, S.; Hari, N.; Mondal, S.; **Mohanta, S.** *Inorganica Chimica Acta*, **2018**, 483, 527–538.
109.	Dimeric, Two-Dimensional and Metal-Centered Rectangular Heterometallic Cu^{II}–$Ag^{I}/Cd^{II}/Ba^{II}$ Systems Derived from a Single Compartmental Ligand Mandal, S.; Hari, N.; Mondal, S.; **Mohanta, S.** *ChemistrySelect* **2018**, *3*, 9610–9616.
108.	Linear Trinuclear Copper(II)-Alkali/Alkaline Earth Metal Compounds Derived from a Compartmental Ligand Mandal, S.; Roy, S.; Mondal, S.; Sparkes, H. A.; **Mohanta, S.** *Inorganica Chimica Acta*, **2018**, 482, 612–620.

2017

107.	Syntheses, Crystal Structures and Magnetic Properties of Two Mixed-Valence Co(III)Co(II) Compounds Derived from Schiff Base Ligands: Field Supported Single-Ion-Magnet Behaviour with Easy Plane Anisotropy Mandal, S.; Mondal, S.; Rajnák, C.; Titiš, J.; Boča, R.; **Mohanta, S.** *Dalton Transactions* **2017**, 46, 13135–13144.
106.	Syntheses, Crystal Structures, Magnetochemistry and Catechol Oxidase Activity of a Tetracopper(II) Compound and a New Type of Dicopper(II) Based 1-D Coordination Polymer Mandal, L.; Mandal, S.; **Mohanta, S.** *New Journal of Chemistry* **2017**, *41*, 4689–4701
105.	Syntheses, Crystal Structures and Photophysical Aspects of Discrete and Polymeric Azido-Bridged Zinc(II) and Cadmium(II) Complexes: Sensing Properties and Structural Resemblance Roy, S.; Bhattacharya, S.; **Mohanta, S.** *Chemistry Select* **2017**, *2*, 11091–11099.
104.	A Bis(Boronic Ester)-Based Fluorogenic and Chromogenic Sensor for F^- and Cu^{2+} Maity, D.; Hari, N.; **Mohanta, S.** *ChemistrySelect* **2017**, *2*, 9037 – 9045
103.	Syntheses, Crystal Structures and ESI-MS of Mononuclear–Dinuclear, Trinuclear and Dinuclear Based One-Dimensional Copper(II)–s Block Metal Ion Complexes Derived from a 3-Ethoxysalicylaldehyde–Diamine Ligand Hari, N.; Jana, A.; **Mohanta, S.** *Inorganica Chimica Acta* **2017**, 467, 11–20.
102.	Syntheses, Crystal Structures and Magnetic Properties of Two $Ni_4(\mu_3$–phenoxido$)_4$ Cubanes: Role of Additional Bridging Carboxylates Mandal, L.; Ghosh, S.; Liu, C.-M.; **Mohanta, S.** *Polyhedron* **2017**, *129*, 199–207
101.	Syntheses, Crystal Structures, Lone Pair Functionality and Electrospray

	Ionization Mass Spectral Properties of Trinuclear, Dimer of Trinuclear and Trinuclear-Based One-Dimensional Systems of Copper(II) and Lead(II) Chakraborty, P.; **Mohanta, S.** *Inorg. Chim. Acta* **2017**, *455*, *70–80*

2016

100.	Syntheses, Crystal Structures and Steady State and Time-Resolved Fluorescence Properties of a PET Based Macrocycle and its Dinuclear $Zn^{II}/Cd^{II}/Hg^{II}$ Complexes Mandal, L.; Majumder, S.; **Mohanta, S.** *Dalton Trans.* **2016**, 45, 17365–17381
99.	Heterometallic Copper(II)–Tin(II/IV) Salts, Cocrystals and Salt Cocrystals: Selectivity and Structural Diversity Depending on Ligand Substitution and Metal Oxidation State Hazra, S.; Chakraborty, P.; **Mohanta, S.** *Crystal Growth & Design* **2016**, *16*, 3777–3790
98.	Bis-Phenoxido and Bis-Acetato Bridged Heteronuclear $\{Co^{III}Dy^{III}\}$ Single Molecule Magnets with Two Slow Relaxation Branches Hazra, S.; Titiš, J.; Valigura, D.; Boča, R.; Mohanta, S. *Dalton Transactions* **2016**, *45*, 7510–7520.

2015

97.	Syntheses, Structures and Catecholase Activity of Two Cobalt(III) Complexes Derived from N,N′-Ethylenebis(3-ethoxysalicylaldiimine): A Special Host–Guest System from a Special Ligand Chakraborty, P.; **Mohanta, S.** *Inorganica Chimica Acta*, **2015**, *435*, 38–45.
96	Structures and Magnetic Properties of Bis(μ-phenoxido), Bis(μ-phenoxido)-μ-carboxylato and Bis(μ-phenoxido)bis(μ-carboxylato) $Fe^{III}Ni^{II}$ Compounds – Magnetostructural Correlations Sasmal, S.; Roy, S.; Carrella, L.; Jana, A.; Rentschler, E.; **Mohanta, S.** *Eur. J. Inorg. Chem.* **2015**, 680–689
95.	Exploration of Weak Interaction Directed Self-Assemblies on Reacting Mononuclear Copper(II)/Nickel(II)···Water Host···Guest Systems of a Double-Compartment Ligand with Mono/Di/Tricarboxylic Acids Ghosh, S.; Mandal, L.; **Mohanta, S.** *Polyhedron*, **2015**, *97*, 1–12.
94.	Heterometallic Copper(II)–Lead(II), Nickel(II)–Lead(II) and Copper(II)–Indium(III) Compounds Derived from an Acyclic Double-Compartment Schiff Base Ligand Bhattacharya, S.; **Mohanta, S.** *Inorganica Chimica Acta* **2015**, *432*, 169–175.
93.	A Series of $M^{II}Cu^{II}_3$ Stars (M = Mn, Ni, Cu, Zn) Exhibiting Unusual Magnetic Properties Mondal, S.; Mandal, S.; Carrella, L.; Jana, A.; Fleck, M.; Köhn, A.; Rentschler, E.; **Mohanta, S.**

	Inorganic Chemistry, **2015**, *54*, 117–131.
92.	Mononuclear and Heterometallic Dinuclear, Trinuclear and Dimer-of-Dinuclear Complexes Derived from Single- and Double-Compartment Schiff Base Ligands Having a Less Utilized Diamine Chakraborty, p.; **Mohanta, S.** *Polyhedron*, **2015**, *87*, 98–108.

2014

91.	Syntheses, Crystal Structures and Magnetic Properties of a Series of μ-Phenoxo-$\mu_{1,1}$-Carboxylato-$\mu_{1,3}$-Carboxylato Trinickel(II) Compounds Bhattacharya, S.; Bhattacharya, S.; Sasmal, S.; Carrella, L.; Rentschler, E.; **Mohanta, S.** *Dalton Trans*. **2014**, *43*, 12065–12076
90	Unprecedented dinuclear Robson type macrocyclic complexes having two +III metal ions in two compartments and the role of the diimino moiety on the stability of metal ion oxidation states Mandal, L.; **Mohanta, S.** *Dalton Trans*. **2014**, *43*, 15737–15751
89.	Surprising Difference Between Two Closely Similar $O(phenoxo)_2O(ether)_2$ Compartments as Host for Aquated Proton and a Novel Type of Host−Guest System Chakraborty, P; Jana, A.; **Mohanta, S.** *Polyhedron*, **2014**, *77*, 39–46.
88.	A Tale of Crystal Engineering of Metal Complexes Derived from a Special Ligand Family having a Cosmopolitan Compartment **(Invited Highlight)** Jana, A.; **Mohanta, S.** *CrystEngComm* **2014**, 16, 5494–5515.
87.	Dinuclear, Star-Shaped Tetranuclear and Trinuclear-Based Two-Dimensional Metal Complexes Derived from a Less Investigated Schiff Base Ligand: Syntheses, Crystal structures and Spectroscopic Correlation Mondal, S.; Mandal, S.; Jana, A.; **Mohanta, S.** *Inorganica Chimica Acta* **2014**, *415*, 138–145.
86.	Discrete Systems and Two-Dimensional Coordination Polymers Containing Potentially Multidentate and Bridging Inorganic Anions: Observation of a New Type of Two-Dimensional Topology Biswas, A.; Jana, A.; Sarkar, S.; Sparkes, H. A.; Howard, J. A. K.; Aliaga-Alcalde , N.; **Mohanta, S.** *Polyhedron* **2014**, *74*, 57–66.
85.	Crystal Structure and Magnetic Properties of a Hexacopper(II)-Based Azide-Bridged One-Dimensional Coordination Polymer: A New Pattern of Azide-Bridged Network Sasmal, S.; Chakraborty, P.; Bhattacharya, S.; Aliaga-Alcalde, N.; **Mohanta, S.** *Polyhedron* **2014**, *73*, 67–71.
84.	Exploration of Heterometallic Systems Containing Silver(I) in Acyclic Schiff Base Ligands: Finite and Infinite Self-Assemblies as a Result of Silver(I)–Carbon Bond and Silver(I)---Silver(I) Interaction Biswas, A.; Mondal, S.; Mandal, L.; Jana, A.; Chakraborty, P.; **Mohanta, S.**

	Inorganica Chimica Acta **2014**, *414*, 199–209.
83.	Crystal Structure, Catecholase Activity and ESI-MS of a Mixed Valence Cobalt(III)–Cobalt(II) Complex Derived from a Macrocyclic Ligand: Identification/Proposition of Hydrogen Bonded Metal Complex⋯Solvent Aggregates in ESI-MS Mandal, L.; Sasmal, S.; Sparkes, H. A.; Howard, J. A. K.; **Mohanta, S.** Accepted Manuscript *Inorganica Chimica Acta* **2014**, *412*, 38–45.
82.	Syntheses, Structures, Catecholase activity, Spectroscopy, and Electrochemistry of a Series of Manganese(III) Complexes: Role of Auxiliary Anionic Ligand on Catecholase Activity Chakraborty, P.; Majumder, S.; Jana, A.; **Mohanta, S.** *Inorganica Chimica Acta* **2014**, *410*, 65–75.
81.	Synthesis and Crystal Structure of a Triple-Decker $Cu^{II}_3Tl^{I}_2$ Complex: First Example of a Thallium(I) System in Imino-Phenolate Schiff Base Ligand Family Mondal, S.; Nayak, M.; Sparkes, H. A.; Howard, J. A. K.; **Mohanta, S.** *Journal of Coordination Chemistry* **2014**, 67, 72–80

2013

80.	Syntheses, Structures, Magnetic Properties, and Density Functional Theory Magneto-Structural Correlations of Bis(μ-phenoxo) and Bis(μ-phenoxo)-μ-acetate/Bis(μ-phenoxo)-bis(μ-acetate) Dinuclear $Fe^{III}Ni^{II}$ Compounds Hazra, S.; Bhattacharya, S.; Singh, M. K.; Carrella, L.; Rentschler, E.; Weyhermüeller, T.; Rajaraman, G.; **Mohanta, S.** *Inorganic Chemistry* **2013**, *52*, 12881−12892.
79.	Structures, Magnetochemistry, Spectroscopy, Theoretical Study, and Catechol Oxidase Activity of Dinuclear and Dimer-of-Dinuclear Mixed-Valence $Mn^{III}Mn^{II}$ Complexes Derived from a Macrocyclic Ligand Jana, A.; Aliaga-Alcalde, N.; Ruiz, E.; **Mohanta, S.** *Inorganic Chemistry* **2013**, *52*, 7732−7746.
78.	Dinuclear Mixed-Valence $Co^{III}Co^{II}$ Complexes Derived from a Macrocyclic Ligand: Unique Example of a $Co^{III}Co^{II}$ Complex Showing Catecholase Activity Majumder, S.; Mondal, S.; Lemoine, P.; **Mohanta, S.** *Dalton Transactions* **2013**, 42, 4561–4569.
77.	Crystal Structures of Discrete, One-dimensional and Cocrystalline Copper(II)–Uranyl(VI) Systems: the Influence of the Reactant Ratio in the Competition Between Hydrogen Bonds and Coordinate Bonds Bhattacharya, S.; Jana, A.; **Mohanta, S.** *CrystEngComm* **2013**, *15*, 10374–10382.
76.	More Surprising Differences Between Two Closely Similar Compartmental Ligand Families and Another Dinuclear Synthon to Stabilize Dinuclear–Mononuclear Cocrystals Biswas, A.; Mandal, L.; Mondal, S.; Lucas, C. R.; **Mohanta, S.** *CrystEngComm* **2013**, *15*, 5888–5897.
75.	Metal Complex Analogues of Crown Ethers as the Preorganized Motif to Stabilize Aquated Proton in Solid State

	Jana, A.; Weyhermüeller, T.; **Mohanta, S.** *CrystEngComm* **2013**, *15*, 4099–4106.
74.	Syntheses, Crystal Structures and Magnetic Properties of Three Bis(End-On Azide) Bridged Dicopper(II) Complexes Derived from Half-Condensed Ligands: Observation of the Smallest Cu–azide–Cu Bridge Angle in Dinuclear Systems Mondal, S.; Chakraborty, P.; Aliaga-Alcalde, N.; **Mohanta, S.** *Polyhedron* **2013**, *63*, 96–102.
73.	Syntheses, Crystal Structures and Spectroscopy of Di/Tri/Tetranuclear Discrete and Co-Crystalline Copper(II)–Na^{I}/Zn^{II}/Cd^{II} Complexes Derived from a Compartmental Ligand: Inconsistency in the Shifting of the Copper(II) d–d Band Bhattacharya, S.; Jana, A.; **Mohanta, S.** *Polyhedron* **2013**, *62*, 234–242.
72.	Triple Bridged μ-Phenoxo-Bis(μ-Carboxylate) and Double Bridged μ-Phenoxo-$\mu_{1,1}$-Azide/μ-Methoxide Dicopper(II) Complexes: Syntheses, Structures, Magnetochemistry, Spectroscopy and Catecholase Activity Sarkar, S.; Majumder, S.; Sasmal, S.; Carrella, L.; Rentschler, E.; **Mohanta, S.** *Polyhedron* **2013**, *50*, 270–282.
71.	First Examples of 3d-Uranium Compounds Derived from Single-Compartment Schiff Base Ligands: Syntheses, Crystal Structures and d–d Band Correlation Mandal, L.; Bhattacharya, S.; **Mohanta, S.** *Inorganica Chimica Acta* **2013**, *406*, 87–94.
70.	Syntheses, Crystal Structures, Magnetochemistry and Electrochemistry of Macrocyclic Dicopper(II) Complexes: Monodentate Behavior of a Potentially Chelating Ligand Jana, A.; **Mohanta, S.** *Inorganica Chimica Acta* **2013**, *405*, 265–273.
69.	Diaquadinitratouranyl(VI) Enforces the $O(Phenoxo)_2O(Methoxy)_2$ Compartment of 3-Methoxysalicylaldehyde-Diamine Ligands to Interact with Water Molecules Bhattacharya, S.; Jana, A.; Fleck, M.; **Mohanta, S.** *Inorganica Chimica Acta* **2013**, *405*, 196–202.
68.	Syntheses, Characterizations and Crystal Structures of 3d–s/d^{10} Metal Complexes Derived from Two Compartmental Schiff Base Ligands Biswas, A.; Mondal, S.; **Mohanta, S.** *Journal of Coordination Chemistry* **2013**, *66*, 152–170.

2012

67.	Syntheses, Structures, and Steady State and Time Resolved Photophysical Properties of a Tetraiminodiphenol Macrocyclic Ligand and Its Dinuclear Zinc(II)/Cadmium(II) Complexes with Coordinating and Noncoordinating Anions Majumder, S.; Mandal, L.; **Mohanta, S.** *Inorganic Chemistry* **2012**, *51*, 8739–8749.
66.	μ-Phenoxo-μ-Pseudohalide and μ-Pseudohalide Dinuclear, Tetranuclear and One-Dimensional Complexes: Magneto-Structural Correlation and Interesting Type of Solid State Isomerism Sasmal, S.; **Mohanta, S.**

	Journal of Chemical Sciences **2012**, *124*, 1353–1364.
65.	Design of Weak Interaction Directed Self-Assemblies of Nickel(II) Complexes using Diprotonated Diamines as Supramolecular Tectons: Syntheses and Crystal Structures Sarkar, S.; Fleck, M.; **Mohanta, S.** *Journal of Molecular Structure* **2012**, *1021*, 174–178.
64.	A New Tetraiminodiphenol Macrocyclic Ligand and its Two Dicopper(II) Complexes: Syntheses, Crystal Structures, Electrochemistry, and Magnetochemistry Majumder, S.; Fleck, M.; Lucas, C. R.; **Mohanta, S.** *Journal of Molecular Structure* **2012**, *1020*, 127–133.

2011

63.	Heterobridged Dinuclear, Tetranuclear, Dinuclear-Based 1-D, and Heptanuclear-Based 1-D Complexes of Copper(II) Derived from a Dinucleating Ligand: Syntheses, Structures, Magnetochemistry, Spectroscopy, and Catecholase Activity Majumder, S.; Sarkar, .; Sasmal, S.; Sañudo, E. C.; **Mohanta, S.** *Inorganic Chemistry* **2011**, *50*, 7540–7554.
62.	Magnetic Exchange Interactions and Magneto-Structural Correlations in Heterobridged μ-Phenoxo-$\mu_{1,1}$-Azide Dinickel(II) Compounds: A Combined Experimental and Theoretical Exploration Sasmal, S.; Hazra, S.; Kundu, P.; Dutta, S.; Rajaraman, G.; Sañudo, E. C.; **Mohanta, S.** *Inorganic Chemistry* **2011**, *50*, 7257–7267.
61.	Syntheses, Structures, and Magnetic Properties of Three One-Dimensional End-to-End Azide / Cyanate Bridged Copper(II) Compounds Exhibiting Ferromagnetic Interaction: New Type of Solid State Isomerism Sasmal, S.; Sarkar, S.; Aliaga-Alcalde, N.; **Mohanta, S.** *Inorganic Chemistry* **2011**, *50*, 5687–5695.
60.	Slow Magnetic Relaxation and Electron Delocalization in an $S = 9/2$ iron(II/III) Complex with Two Crystallographically Inequivalent Iron Sites Hazra, S.; Sasmal, S.; Fleck, M.; Grandjean, F.; Sougrati, M. T.; Ghosh, M.; Harris, T. D.; Bonville, P.; Long, G. J.; **Mohanta, S.** *Journal of Chemical Physics* **2011**, *134*, 174507-1–174507-13. Selected as Research Highlight
59.	Bis(nitrate)diaquauranyl(VI) Synthon to Generate [1×2+1×1] and [1×1+1×1] Cocrystalized 3d···5f Self-assemblies Bhattacharya, S.; Mondal, S.; Sasmal, S.; Sparkes, H. A.; Howard, J. A. K.; Nayak, M.; **Mohanta, S.** *CrystEngComm* **2011**, *13*, 1029–1036.
58.	Syntheses and Crystal Structures of Dinuclear, Trinuclear [2×1+1×1], and Tetranuclear [2×1+1×2] Copper(II)–d^{10} Complexes ($d^{10} \Rightarrow Zn^{II}$, Cd^{II}, Hg^{II} and Ag^{I}) Derived from *N*,*N*′-Ethylenebis(3-Ethoxysalicylaldimine) Nayak, M.; Sarkar, S.; Hazra, S.; Sparkes, H. A.; Howard, J. A. K.; **Mohanta, S.** *CrystEngComm* **2011**, *13*, 124–132.
57.	Syntheses, Crystal structures and Supramolecular Topologies of Nickel(II)–

	s/p/d^{10}/NH_4^+ Complexes Derived from a Compartmental Ligand Sarkar, S.; **Mohanta, S.** *RSC Advances* **2011**, *1*, 640–650.
56.	Syntheses, Molecular and Supramolecular Structures, Electrochemistry, and Magnetic Properties of Two Macrocyclic Dinickel(II) Complexes Hazra, S.; Mondal, S.; Fleck, M.; Sasmal, S.; Sañudo, E. C.; **Mohanta, S.** *Polyhedron* **2011**, *30*, 1906–1913.
55.	Syntheses, Crystal Structures, and Magnetic Properties of [2×1+1×2] Heterotetrametallic and [1×1+1×1] Heterodimetallic Cocrystals of Copper(II) and Iron(II/III) Jana, A.; Koner, R.; Weyhermüeller, T.; Lemoine, P.; Ghosh, M.; **Mohanta, S.** *Inorganica Chimica Acta* **2011**, *375*, 263–270.
54.	Syntheses, Crystal Structures, and Magnetic Properties of Trinuclear and [3×1+1×2] Pentanuclear Complexes Derived from a Compartmental Ligand: Role of Solvent on Nuclearity and Number of Components Jana, A.; Koner, R.; Nayak, M.; Lemoine, P.; Dutta, S.; Ghosh, M.; **Mohanta, S.** *Inorganica Chimica Acta* **2011**, *365*, 71–77.
53.	Syntheses, Structures, Electrochemical Measurements and Magnetic Properties of Two Iron(III) Complexes Derived from *N*,*N*′-*o*-Phenylenebis(3-Ethoxysalicylaldimine) Majumder, S.; Dutta, S.; Carrella, L.; Rentschler, E.; **Mohanta, S.** *Journal of Molecular Structure* **2011**, *1006*, 216–222.
52.	Syntheses, Crystal Structures and Supramolecular Topologies of Copper(II)–Main Group Metal Complexes Derived from *N*,*N*′-*o*-Phenylenebis(3-Ethoxysalicylaldimine) Mondal, S.; Hazra, S.; Sarkar, S.; Sasmal, S.; **Mohanta, S.** *Journal of Molecular Structure* **2011**, *1004*, 204–214.

2010

51.	Magneto-Structural Correlation Studies and Theoretical Calculations of a Unique Family of Single End-to-End Azide Bridged Ni^{II}_4 Cyclic Clusters Sasmal, S.; Hazra, S.; Kundu, P.; Majumder, S.; Aliaga-Alcalde, N.; Ruiz, E.; **Mohanta, S.** *Inorganic Chemistry* **2010**, *49*, 9517–9526.
50.	Syntheses, Structures, and Magnetic Properties of Diphenoxo-Bridged $Cu^{II}Ln^{III}$ and Ni^{II}(Low-Spin)Ln^{III} Compounds Derived from a Compartmental Ligand (Ln (Ce-Yb) Jana, A.; Majumder, S.; Carrella, L.; Nayak, M.; Weyhermüeller, T.; Dutta, S.; Schollmeyer, D.; Rentschler, E.; Koner, R.; **Mohanta, S.** *Inorganic Chemistry* **2010**, *49*, 9012–9025.
49.	Tetrametallic [2×1+1×2], Octametallic Double-Decker–Triple-Decker [5×1+3×1], Hexametallic Quadruple-Decker and Dimetallic-Based One-Dimensional Complexes of Copper(II) and s Block Metal Ions Derived from *N*,*N*′-Ethylenebis(3-Ethoxysalicylaldimine) Sasmal, S.; Majumder, S.; Hazra, S.; Sparkes, H. A.; Howard, J. A. K.; Nayak, M.; **Mohanta, S.** *CrystEngComm* **2010**, *12*, 4131–4140.

48.	A Unique Example of Three Component Cocrystal of Metal Complexes Nayak, M.; Jana, A.; Fleck, M.; Hazra, S.; **Mohanta, S.** *CrystEngComm* **2010**, *12*, 1416–1421.
47.	Syntheses and Crystal Structures of $Cu^{II}Bi^{III}$, $Cu^{II}Ba^{II}Cu^{II}$, $[Cu^{II}Pb^{II}]_2$ and Cocrystallized $(U^{VI}O_2)_2.4Cu^{II}$ Complexes: Structural Diversity of the Coordination Compounds Derived from *N*,*N*′-Ethylenebis(3-Ethoxysalicylaldiimine) Hazra, S.; Sasmal, S.; Nayak, M.; Sparkes, H. A.; Howard, J. A. K.; **Mohanta, S.** *CrystEngComm* **2010**, *12*, 470–477.
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11.	Synthesis, Characterization, Magnetic and Electrochemical Studies of Homo- and Heterodinuclear Complexes of a Macrocyclic Ligand with Dissimilar Compartments **Mohanta, S.**; Baitalik, S.; Dutta, S. K.; Adhikary, B. *Polyhedron* **1998**, *35*, 2669–2677.

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8.	Macrocyclic Cu^{II}_2 , Cu^{II}_4 , Ni^{II}_3 , and Ni^{II}_4 Complexes: Magnetic Properties of Tetranuclear Systems **Mohanta, S.**; Nanda, K. K.; Werner, R.; Haase, W.; Mukherjee, A. K.; Dutta, S. K.; Nag, K. *Inorganic Chemistry* **1997**, *36*, 4656–4664.

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7.	Studies on Some Mixed-Ligand Complexes of Ruthenium(II) Involving Dithiocarbamates, Triphenylphosphines and Bipyridine Baitalik, S.; **Mohanta, S.**; Adhikary, B. *Polyhedron* **1996**, *16*, 983–988.
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	Berichte der Bunsengesellschaft für Physikalische Chemie 1996**, *100*, 2086–2090 (A Wiley Journal).**
5.	Macrocyclic Dimeric $V^{IV}O$ and Hetero-Dinuclear $V^{IV}ONi^{II}$ complexes. Structure, Magnetic, Electronic and Redox Properties **Mohanta, S.**; Nanda, K. K.; Ghosh, S.; Mukherjee, M.; Helliwell, M.; Nag, K. *Dalton Transactions* **1996**, 4233–4238.
4.	Model Compounds for Iron Proteins. Structures, Magnetic, Spectroscopic, and Redox Properties of $Fe^{III}M^{II}$ and $[Co^{III}Fe^{III}]_2O$ Complexes with (μ-Carboxylato)bis(μ-phenoxo) dimetallate and (μ-Oxo) diiron(III) Cores Dutta, S. K.; Werner, R.; Flörke, U.; **Mohanta, S.**; Nanda, K. K.; Haase, W.; Nag, K. *Inorganic Chemistry* **1996**, *35*, 2292–2300.

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3.	Macrocyclic Cu^{II}_4 and $Cu^{II}_2M^{II}$ Complexes. Structure of a Heterotrinuclear $Cu^{II}_2Zn^{II}$ Complex exhibiting a Helical Twist Nanda, K. K.; **Mohanta, S.**; Flörke, U.; Dutta, S. K; Nag, K. *Dalton Transactions* **1995**, 3831–3836.
2.	Macrocyclic Mononuclear V^{IV} and V^{V}, Heterodinuclear $V^{IV}Ni^{II}$, and Heterotrinuclear $V^{IV}Ni^{II}V^{V}$ Complexes: Synthesis, Structure, Electrochemistry, and Magnetochemistry Nanda, K. K.; **Mohanta, S.**; Ghosh, S.; Mukherjee, M.; Nag, K. *Inorganic Chemistry* **1995**, *34*, 2861–2869.

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1.	A Mononuclear Oxovanadium(IV) Complex $[VO(H_2L)(SO4)]\cdot 5H_2O$ Derived from a Potentially Dinucleating Tetraaminodiphenol Macrocyclic Ligand (H_2L) Ghosh, S.; Mukherjee, M.; Mukherjee, A. K.; **Mohanta, S.**; Helliwell, M. *Acta Crystallographica Section C* 1994, *50*, 1204–1207.

b) ***Books/ book chapters*** *:* NIL
c) ***Conference/ seminar volumes***: NIL
d) ***Other publications*** : NIL

12. **Membership of Learned Societies**:
(i) Indian Association for the Cultivation of Science, (ii) Indian Chemical Society

13. **Patents : NIL**

14. **Invited lectures delivered :**

Sl. No.	Title of Lecture	Title of Conference /Seminar	Organizer; Date
10	Sharing Our Experience in the Course of Exploring Heterometallic Systems	National seminar on "Emerging Trends in Chemistry"	Department of Chemistry, Jadavpur University; 15 February, 2017
9	Biomimetic Aspects, Magnetic Double Exchange and Magneto-Structural Correlations of Some Macrocyclic 3d Metal ion Complexes	Symposium on Advanced Biological Inorganic Chemistry (SABIC-2017)	IACS Kolkata and and TIFR Mumbai; 7-11 January, 2017
8	Some of Our Observations on Magnetic Exchange, Double Exchange and Single Molecule Magnets	Conference on "Modern Trends in Molecular Magnets" (MTMM)	Department of Chemistry, Indian Institute of Technology Bombay; 19–21 May, **2016**
7	A Tale of Crystal Engineering of Metal Complexes Derived from a Special Ligand Family Having a Cosmopolitan Compartment	International Conference on "Structural Chemistry of Molecules and Materials" (SCOMM-2014)	Jointly by Royal Society of Chemistry and Department of Chemistry of University of Calcutta, IISER Kolkata and Jadavpur University; 30 November – 02 December, **2014**
6	Magnetic Properties and Crystal Engineering of Systems Obtained on Reacting Copper(II)/Nickel(II) Metallo-Ligands with Various Inorganic/Organic Species	National Symposium on "Recent Advances in Chemistry and Chemical Industry"	Indian Chemical Society; 01–02 August, **2014**.
5	μ-Phenoxo-μ-Pseudohalide and μ-Pseudohalide Dinuclear, Tetranuclear and One-Dimensional Complexes: Magneto-Structural Correlation and New Type of Solid State Isomerism	XIV National Symposium on "Modern Trends in Inorganic Chemistry"	School of Chemistry, University of Hyderabad; 10**–**13 December, **2011**
4	Structural and Magnetic Studies of Discrete and Self-Assembled Metal Complexes Including Two- and Three-Component Cocrystals	National Seminar on "Current Trends in Chemistry – V"	Department of Chemistry, University of Kalyani; 25 February, **2011**.
3	Structural Diversity of Coordination Compounds Derived from Acyclic	Seventh Chemical Research Society of India (Kolkata Chapter)	Department of Chemistry, Ramakrishna Mission Residential College,

	Compartmental Ligands	Symposium: Current Trends of Chemical Society	Narendrapur; 08 August, **2009**
2	Surprising Magnetic Exchange Interactions: Our Observations	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry Today (2009)	Indian Chemical Society; 01–02 August, **2009**.
1	Inclusion Compounds, Cocrystals, and Strongly Coupled 3d–4f Systems Derived from 3-Ethoxysalicylaldehyde—Diamine Schiff Base Ligands	Sixth Chemical Research Society of India (Kolkata Chapter) Symposium	Department of Chemistry, North Bengal University; 02 August, **2008**

15. **Awards :** NIL

16. **Other notable activities** : (i) Convener of Ph. D. Committee in Chemistry (Inorganic Chemistry), University of Chemistry, 2013−2018. (ii) Coordinator/Incharge of Single Crystal X-Ray Diffractometer (DST-FIST) at Department of Chemistry, University of Calcutta since its installment in 2009–2010; (iii) Reviewer of various journals like: (a) ACS journals – *Inorganic Chemistry*; (b) RSC journals – *Dalton Transactions*, *CrystEngcomm*, *RSC Advances*, *New Journal of Chemistry*; (c) Wiley journals – *European Journal of Inorganic Chemistry*; (d) Elsevier journals – *Inorganica Chimica Acta*, *Journal of Molecular Structure*, *Spectrochimica Acta Part A*; (e) Taylor and Francis Journals – *Journal of Coordination Chemistry*, *Supramolecular Chemistry*. (iv) Examiner of a number of Ph. D. thesis of other University / IIT.