

CURRICULUM VITAE

Dr. Manoranjan Maity

State Aided College Teacher

Department of Chemistry,

Behala College, Kolkata-700060



Educational Qualifications:

M. Sc. : Bengal Engineering & Science University, Shibpur, 2007

Ph. D. : Indian Association for the Cultivation of Science (Awarded from University of Calcutta, 2015) , Kolkata

Post-Doc.: Three years (01/09/2015 to 31/08/2018) from Indian Institute of Science, Bangalore

Academic Position Held:

Contractual Full time Assistant Professor in the Department of Chemistry, Behala College, Kolkata (7th May 2019 -31st December 2019).

State Aided College Teacher (1st January 2020 – till to date)

Permanent Address:

Baidyanathpur, Chandrakona Town, Paschim Medinipur, 721201, West Bengal, India

Email Id: manoranjan.maity10@gmail.com

Contact No.: 9674646393

Research Experience/ Major Fields of Work:

- ❖ Inorganic and Solid State Chemistry; Synthesis of inorganic clusters and solids
- ❖ Transition-Metal Coordination Chemistry
- ❖ Mixed *3d-4f* Systems : Magnetic and Emission Properties
- ❖ Valence Tautomerism with Nitrogenous Heterocyclic Redox Active Ligands
- ❖ Supramolecular Self-assembled Cage/Barrel Complexes (Host-Guest chemistry)

- ❖ Photo and pH Triggered Reversible Switching of Spiropyran-Based Platinum Macrocycles

Ph. D. Thesis/ Dissertation Title: “*Studies on Transition Metal Complexes of Phenol Based Ligands*”

Supervisor: **Prof. Muktimoy Chaudhury**

Dept. of Inorganic Chemistry, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mallick Road, Jadavpur, Kolkata-700 032, West Bengal, India.

Post-Doctoral Research: Title “*Synthesis of metal based cage compounds for catalysis of some organic transformations and sensing*”

Dr. D. S. Kothari *Post-doctoral Research Fellow* (U.G.C.)

Supervisor: **Prof. Partha Sarathi Mukherjee,**

Dept. of Inorganic & Physical Chemistry, IISC, Bangalore

Participated in Workshop/Seminar/ Symposium:

- (1) International Symposium *on* Frontiers of Inorganic Chemistry (FIC-2010) December 11-13, 2010 (I.A.C.S.), Kolkata
- (2) International Symposium *on* Chemistry and Complexity December 6-8, 2011 (I.A.C.S.), Kolkata
- (3) American Chemical Society on Campus, 12th October 2012 (I.A.C.S.), Kolkata.
- (4) Recent Development and Future Challenges in Chemical Science, 26th February 2020 in Behala College, Kolkata.

Merits & Awards:

Graduate Aptitude Test in Engineering (GATE) in 2007, All India Rank -239

National Eligibility Test (NET) June, 2007, Qualified Council of Scientific and Industrial Research (CSIR)

Dr. D. S. Kothari Post-doctoral Fellowship, July-2015

Details of all peer-reviewed international publications (Total = 16)

[1]. Michał Antkowiak, Mithun Chandra Majee, **Manoranjan Maity**, Dhruvajyoti Mondal, Michalina Kaj, Monika Lesiów, Alina Bienko, Leeor Kronik, Muktimoy Chaudhury, and Grzegorz Kamieniarz; Generalized Heisenberg-Type Magnetic Phenomena in Coordination Polymers with Nickel-Lanthanide Dinuclear Units, *Journal of Physical Chemistry C*, 2021, 125, 11182 – 11196 (I.F.- 4.189)

[2]. Prioti Choudhury Purba, **Manoranjan Maity**, Soumalya Bhattacharyya, Partha Sarathi Mukherjee; A Self-Assembled Palladium(II) Barrel for Binding of Fullerenes and Photosensitization Ability of the Fullerene-Encapsulated Barrel, *Angewandte Chemie International Edition*, 2021, 60, 14109 -14116. (I.F.- 15.34)

[3]. Saumalya Bhattacharya, **Manoranjan Maity**, Aniket Chowdhury, Manik Lal Saha, Sumit Kumar Panja, Partha Sarathi Mukherjee; Coordination -Assisted Reversible Photoswitching of Spirospyrans-Based Platinum Macrocycles, *Inorganic Chemistry*, 2020, 59, 2083- 2091. (I.F.- 5.165)

[4]. Prioti Choudhury Purba, Saumalya Bhattacharya, **Manoranjan Maity**, Sujay Mukhopadhyay, Prodip Howlader, Partha Sarathi Mukherjee; Linkage Induced Enhancement of Fluorescence in Metal-Carbene Bond Directed Metallacycles and Metallacages, *Chemical Communication*, 2019, 55, 8309 – 8312. (I.F.- 6.0)

[5]. **Manoranjan Maity**, Prodip Howlader, and Partha Sarathi Mukherjee; Coordination-Driven Self-assembly of Cyclopentadienyl-Capped Heterometallic Zr–Pd Cages, *Crystal Growth & Design*, 2018, 18, 6956-6964. (I.F.- 4.07)

[6]. Mithun Chandra Majee, Sk Md TowsifAbtab, Dhruvajyoti Mondal, **Manoranjan Maity**, Marek Weselski, Maciej Witwicki, Alina Bieńko, Michał Antkowiak, Grzegorz Kamieniarz, Muktimoy Chaudhury; Synthesis and magneto-structural studies on a new family of carbonato bridged 3d–4f complexes featuring a $[\text{Co}^{\text{II}}_3\text{Ln}^{\text{III}}_3(\text{CO}_3)]$ (Ln = La, Gd, Tb, Dy and

Ho) core: slow magnetic relaxation displayed by the cobalt(II)–dysprosium(III) analogue, *Dalton Transactions*, 2018, 47, 3425-3439. (I.F.- 4.174)

[7]. Sugata Samanta, Sagarika Sanyal, **Manoranjan Maity**, Muktimoy Chaudhury, Sanjib Ghosh; Unusual Solvent Effect of Molecular Charge Transfer Complexes: Stacking/non-stacking interaction revealed by characterization of structure and photophysical aspects, *Journal of Luminescence*, 2017, 190, 403-412. (I.F.- 3.58)

[8]. **Manoranjan Maity**, Mithun Chandra Majee, Sanchita Kundu, Swarna Kamal Samanta, E. Carolina Sañudo, Sanjib Ghosh, Muktimoy Chaudhury; Pentanuclear 3d–4f Heterometal Complexes of $M^{II}_3Ln^{III}_2$ (M = Ni, Cu, Zn and Ln = Nd, Gd, Tb) Combinations: Syntheses, Structures, Magnetism, and Photoluminescence Properties, *Inorganic Chemistry*, 2015, 54, 9715-9726. (I.F.- 5.165)

[9]. Sk Md Towsif Abtab, Mithun Chandra Majee, **Manoranjan Maity**, JánTitiš, Roman Boča, Muktimoy Chaudhury; Tetranuclear Hetero-Metal $[Co^{II}_2Ln^{III}_2]$ (Ln = Gd, Tb, Dy, Ho, La) Complexes Involving Carboxylato Bridges in a Rare $\mu_4-\eta^2:\eta^2$ Mode: Synthesis, Crystal Structures, and Magnetic Properties, *Inorganic Chemistry*, 2014, 53, 1295-1306. (I.F.- 5.165)

[10]. Kisholoy Bhattacharya, **Manoranjan Maity**, Sk Md Towsif Abtab, Mithun Chandra Majee, and Muktimoy Chaudhury; Homo- and Heterometal Complexes of Oxido Metal Ions with a Triangular $[V(V)O-MO-V(V)O]$ [M = V(IV) and Re(V)] Core: Reporting Mixed Oxidation Oxido–Vanadium(V/IV/V) Compounds with Valence Trapped Structures, *Inorganic Chemistry*, 2013, 52, 9597-9605. (I.F.- 5.165)

[11]. Sk Md Towsif Abtab, **Manoranjan Maity**, Kisholoy Bhattacharya, E. Carolina Sañudo, and Muktimoy Chaudhury; Syntheses, Structures, and Magnetic Properties of a Family of Tetranuclear Hydroxido-Bridged $Ni^{III}_2Ln^{III}_2$ (Ln = La, Gd, Tb, and Dy) Complexes: Display of Slow Magnetic Relaxation by the Zinc(II)–Dysprosium(III) Analogue, *Inorganic Chemistry*, 2012, 51, 10211-10221. (I.F.- 5.165)

[12]. Kisholoy Bhattacharya, **Manoranjan Maity**, Dhruvajyoti Mondal, Akira Endo, and Muktimoy Chaudhury; Targeted Synthesis of Heterobimetallic Compounds Containing a Discrete Vanadium(V)- μ -Oxygen-Iron(III) Core, *Inorganic Chemistry*, 2012, 51, 4754-4756. (I.F.- 5.165)

[13]. Anandalok Audhya, **Manoranjan Maity**, Sk Md Towsif Abtab, Corine Mathonière, Marguerite Kalisz, Rodolphe Clérac; Polyalcohols as ancillary ligands in manganese-oxime chemistry: Syntheses, structures and magnetic properties of a series of trinuclear complexes involving a linear MnII-MnIV-MnII core, *Polyhedron*, 2012, 33, 353-359. (I.F.- 2.88)

[14]. Nabanita Kundu, **Manoranjan Maity**, Pabitra Baran Chatterjee, Simon J. Teat, Akira Endo, Muktimoy Chaudhury; Reporting a Unique Example of Electronic Bistability Observed in the Form of Valence Tautomerism with a Copper(II) Helicate of a Redox-Active Nitrogenous Heterocyclic Ligand, *Journal of the American Chemical Society*, 2011, 133, 20104-20107. (I.F.- 15.42)

[15]. Anandalok Audhya, **Manoranjan Maity**, Kisholoy Bhattacharya, Rodolphe Clerac, and Muktimoy Chaudhury; Tri- and Tetranuclear Nickel(II) Inverse Metallacrown Complexes Involving Oximate Oxygen Linkers: Role of the Guest Anion (Oxo versus Alkoxo) in Controlling the Size of the Ring Topology, *Inorganic Chemistry*, 2010, 49, 9026-9035. (I.F.- 5.165)

[16]. Anandalok Audhya, Kisholoy Bhattacharya, **Manoranjan Maity**, and Muktimoy Chaudhury; Building Metallacrown Topology around a Discrete $[M_3(\mu_3-O)]$ (M = Ni(II) and Pd(II)) Core Using Oximate Oxygen Linkers: Synthesis, Structures, and Spectroscopic Characterization of a New Family of Compounds with an Inverse-9-MC-3 Motif, *Inorganic Chemistry*, 2010, 49, 5009-5015. (I.F.- 5.165)

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