



Dr. Saugata Konar

Assistant Professor

Department of Chemistry

Contact Information

Contact Address (Office)
5 Lala Lajpat Rai Sarani,
Kolkata: 700 020

Contact Number (Office)
(033) 4019-5558

E-Mail ID (Official)
saugata.konar@thebges.edu.in

Specialization

- Inorganic Chemistry



**THE BHAWANIPUR
EDUCATION SOCIETY COLLEGE**

Biographical Sketch

Dr. Saugata Konar is currently associated as Assistant Professor, in the Department of Chemistry, The Bhawanipur Education Society College, affiliated to University of Calcutta. Prior to joining this institution, he worked as a Guest Lecturer at Vidyasagar College, Kolkata and Rammohan College, Kolkata. He completed his B.Sc and M.Sc degrees from Vidyasagar University, with Inorganic Chemistry Specialization. He also awarded Ph.D degree in Chemistry from University of Calcutta and worked as a Post-Doc fellow from Jadavpur University. He has presented his research papers in numerous conferences (both national and international) and published 50 (fifty) research papers in peer reviewed reputed journals as well. He has also participated in several national and international seminars /webinars / workshops / conferences.

Academic Qualifications

Abbreviation of the Degree	Name of the College/ University	Class Obtained	Area Of Specialization	Year Of Passing
Ph.D	University of Calcutta	N.A	Inorganic Chemistry	2013
M.Sc	Vidyasagar University	1 st Class	Inorganic Chemistry	2008
B.Sc	Vidyasagar University	1 st Class	Chemistry	2006

Position Holding (Full Time)

- Assistant Professor, Department of Chemistry, The Bhawanipur Education Society College, Kolkata 700020, India, 2016- till now.



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Guest Appointment

As a Guest Lecturer of Chemistry in -

- Vidyasagar College, Kolkata in the Session 2012-13 and 2013-14.
- Rammohan College, Kolkata in the Session 2014-15.

Academic Achievements

- Qualified joint CSIR- NET (CSIR-JRF) in June 2008 conducted by Government of India.
- Awarded UGC-Dr.D.S.Kothari Postdoctoral fellowship in September, 2013.
- A Scientific Reviewer in International journal like Science Direct Journal, John Wiley & Sons Journal etc.

Instruments Handling

- **X-ray Crystallography:** I am experienced in handling the Bruker SMART APEX (II) diffractometer and I am familiar with calculating molecular geometry and other parameters using APEX-II, Hg, Diamond, Ortep or Platon etc.
- **Electrochemistry:** Cyclic Voltametry was carried out using Sycopel Model AEW2 1820F/S instrument or using BAS-100B electrochemical analyzer.
- **Absorption Spectroscopy:** UV-absorption spectroscopy was used to study the Geometry and electronic environment of the metal complexes on a Hitachi spectrophotometer.
- **Fluorescence Spectroscopy:** I am experienced in handling Perkin Elmer LS 50B fluorimeter for studying emission behavior of complexes.
- **WinGX:** I am experienced in handling the WinGX software for modeling the molecular geometry of complexes from its single crystal X-ray diffraction data. Skill in handling air and moisture sensitive reagents and compounds.

Member

- Life member in The Indian Science congress Association (membership number-L21357).
- Life member and Fellow in Indian chemical society, Kolkata (membership number-F/7878).
- Affiliate member of the Royal Society of Chemistry (Membership ID: 697049).





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Administrative Assignment

- Member of Library Committee of The BES College.
- Member of IQAC Committee of The BES College.
- Member of ISO Core Team of The BES College.

Subjects Taught

Inorganic Chemistry Hons. papers | Elective papers of Chemistry.

Research Interests

Coordination Chemistry | Supramolecular Chemistry | Semiconductor Materials | Fluorescent Sensors Biological Application of Coordination Compounds | Single Crystal X-ray analysis.

List Of Publications

- Synthesis, crystal structure, spectroscopic studies and supramolecular aspects of Co(II) complex with a pyrimidine derived schiff base ligand Saugata Konar* and Monojit Mitra The Importance of Intermolecular Interaction in Solid-state X-ray Crystal Structures Published by New Academic Publishers, New Delhi (2016), ISBN: 9788186772898.
- Biological and biomedical applications of supramolecular interaction Monojit Mitra*, Saugata Konar and Subrata Mukhopadhyaya Proceedings of UGC sponsored National seminar on Recent Development in Bio-Active Molecule (RDBAM-2016) held on 4h-5th August, 2016 ISBN: 978-93-5267-195-3.
- Synthesis, crystal structure, spectroscopic studies and supramolecular facets of unnatural coordination modes of cobalt(II) complex Sudipta Pathak* and Saugata Konar* Proceedings of UGC sponsored National seminar on Recent Development in Bio-Active Molecule (RD-BAM-2016) held on 4h-5th August, 2016 ISBN: 978-93-5267-195-3.
- An Overview on Bromination: A Green Approach Saugata Konar* and Sudipta Pathak* Coherence, Vol 2, Issue 2: 131-134 (2017) ISBN No: 978-81-930092-8-4.
- Metalloinfluence in medicine. Aniruddhya Mukherjee, Md. Imran Zahid and Saugata Konar Coherence, Volume 3, 2020, ISBN: 978-81-930092-2-2.





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Referred Journal

- Synthesis, crystal structure, spectroscopic and photoluminescence studies of manganese(II), cobalt(II), cadmium(II), zinc(II) and copper(II) complexes with a pyrazole derived Schiff base ligand *Polyhedron* 30 (2011) 2801–2808
Saugata Konar, Atanu Jana, Kinsuk Das, Sangita Ray, Sudipta Chatterjee, James A. Golen, Arnold L. Rheingold, Susanta Kumar Kar*
- Complexes of a functionally modified pyrazole derived ligand - mononuclear zinc(II), dinuclear nickel(II) and a rare pentanuclear cadmium(II) complex with a TBP core and their photoluminescence studies *Polyhedron* 47 (2012) 143–150
Saugata Konar, Atanu Jana, Kinsuk Das, Sangita Ray, Sudipta Chatterjee, Susanta Kumar Kar*
- Three new 1D Cu(II) coordination polymers and a binuclear Cu(II) complex of two pyrazole derived Schiff base ligands: Heterocyclic ring substitution and anion dependent structural variations - Spectral studies *Inorganica Chimica Acta*, 395 (2013) 1–10
Saugata Konar, Atanu Jana, Kinsuk Das, Sangita Ray, Sudipta Chatterjee, and Susanta Kumar Kar*
- A rare pentanuclear cadmium(II) complex and two new mononuclear zinc(II) complexes of pyrazole derived ditopic ligands - synthesis, crystal structures and spectral studies *Inorganica Chimica Acta*, 397 (2013) 144–151
Saugata Konar, Atanu Jana, Kinsuk Das, Sangita Ray, James A. Golen, Arnold L. Rheingold and Susanta Kumar Kar*
- An intramolecular antiferromagnetically coupled pentanuclear homoleptic Mn(II) cluster : synthesis, crystal structure, spectral and magnetic property *Polyhedron*, 53 (2013) 235–239
Saugata Konar, Atanu Jana, Kinsuk Das, Anamika Dhara, Sudipta Chatterjee, Luca M. Carrella, Eva Rentschler* and Susanta Kumar Kar*
- Self assembled tetranuclear Cu₄(II), Ni₄(II) [2 × 2] square grids and a dicopper(II) complex of heterocycle based polytopic ligands - Magnetic studies *Dalton Trans.* 40(2011) 11866–11875
Tarak Nath Mandal, Somnath Roy, Saugata Konar, Atanu Jana, Sangita Ray, Kinsuk Das, Rajat Saha, Mohamed Salah El Fallah, Ray J. Butcher, Sudipta Chatterjee and Susanta Kumar Kar*
- Synthesis, structural, magnetic, DFT calculations and CShM studies of three new pentanuclear Mn(II) clusters *Dalton Trans.*, 41(2012)413–423T.
N. Mandal, S. Roy, S. Konar, A. Jana, K. Das, S. Ray, S. Gupta, R. Saha, M. S. El Fallah, J. Tercero, R. J. Butcher, S. Chatterjee and S. K. Kar*





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Referred Journal

- Synthesis and structural studies of cobalt(III) complexes of 5-methyl-3 formylpyrazole-N(4)-ethyl/dimethyl thiosemicarbazone and nickel(II) complex of 2-S-methyl-6-methyl-4-formylpyrimidineN(4)-ethyl thiosemicarbazone Indian Journal of Chemistry, Sec A, Vol. 50A, 2011, pp. 1334-1342
Atanu Jana, Saugata Konar, Sangita Ray, Shie-Ming Peng, G H Lee, Ray J Butcher, Tian-Huey Lu, Anil Kumar Barik, Sachindranath Pal & Susanta Kumar Kar*
- Three new pseudohalide bridged dinuclear Zn(II), Cd(II) complexes of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies Polyhedron, 33 (2012) 82-89
Sangita Ray, Saugata Konar, Atanu Jana, Sankar Jana, Amarendra Patra, Sudipta Chatterjee, James A. Golen, Arnold L. Rheingold Sudhanshu Sekhar Mandal and Susanta Kumar Kar*
- Syntheses, crystal structures and magnetic properties of two dicopper(II) complexes and a zigzag 1-D Cu(II) complex of a bidentate pyridyl-pyrazole ligand Polyhedron, 30 (2011) 715-724
Kinsuk Das, Tarak Nath Mandal, Somnath Roy, Atanu Jana, Saugata Konar, Cai-Ming Liu, Anil Kumar Barik Susanta Kumar Kar*
- Alkali metal ion mediated self-assembly of vanadium(V) ions and pyrazole based polydentate ligands leading to the formation of helix, double helix and supramolecular cage-like structures Polyhedron, 30 (2011) 187-194
Arijit Hazra, Samik Gupta, Somnath Roy, Tarak Nath Mandal, Kinsuk Das, Saugata Konar, Atanu Jana, Sangita Ray, Ray J. Butcher, Susanta Kumar Kar*
- Azide bridged dicopper(II), dicobalt(II) complexes and a rare double I-chloride bridged ferromagnetic dicobalt(II) complex of a pyrazolyl-pyrimidine ligand: Synthesis, crystal structures, magnetic and DFT studies Polyhedron, 38 (2012) 258-266
Atanu Jana, Saugata Konar, Kinsuk Das, Sangita Ray, James A. Golen, Arnold L. Rheingold, Luca M. Carrella, Eva Rentschler, Tapan Kumar Mondal, Susanta Kumar Kar*
- Synthesis and studies of rare acylhydrazine bridged strong antiferromagnetically coupled dicopper(II) and dioxovanadium(V) complexes of a pyridyl-pyrazole derived Schiff base ligand Polyhedron, 46 (2012) 105-112
Atanu Jana, Saugata Konar, Tarak Nath Mandal, Kinsuk Das, Sangita Ray, Ananda Sarkar, Cai Ming Liu and Susanta Kumar Kar*
- Dicopper (II) Complexes of a Tridentate Pyrimidine Derived Schiff Base Ligand: Syntheses, Crystal Structures and Catalytic Reactions Polyhedron, 46 (2012) 74-80
Sangita Ray, Sreyashi Jana, Atanu Jana, Saugata Konar, Kinsuk Das, Sudipta Chatterjee, Ray J. Butcher and Susanta Kumar Kar*





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- An orthogonal ferromagnetically coupled tetracopper(II) [2×2] homoleptic grid supported by μ -O₄ bridges Polyhedron 47 (2012) 24-29
Atanu Jana, Saugata Konar, Kinsuk Das, Sangita Ray, Joan Ribasc, Mohamed Salah El Fallah and Susanta Kumar Kar*
- Mononuclear, Dinuclear and 1-D polymeric complexes of Cd(II) of a pyridyl Pyrazole ligand: Synthesis, Crystal Structures and Photoluminescence Studies Journal of Molecular Structure 1036 (2013) 392-401
Kinsuk Das, Saugata Konar, Atanu Jana, Anil Kumar Barik, Sangita Roy and Susanta Kumar Kar*
- Synthesis, crystal structure and DFT analysis of a phenoxo bridged Cu(II) complex and an azide and μ ₃-O mixed bridged trinuclear Cu(II) complex Polyhedron 50 (2013) 51-58
Sangita Ray, Saugata Konar, Atanu Jana, Kinsuk Das, Ray J. Butcher, Tapan Kumar Mondal, Susanta Kumar Kar*
- A novel rhodamine-based colorimetric chemodosimeter for the rapid detection of Al³⁺ in aqueous methanol: Fluorescent "OFF-ON" mechanism Tetrahedron Letters 54 (2013) 3630-3634
Anamika Dhara, Atanu Jana, Saugata Konar, Sumanta Ghatak, Sangita Ray, Kinsuk Das, Anasuya Bandyopadhyay, Nikhil Guchhait and Susanta K. Kar*
- A new trinuclear Zinc (II) complex and a heptacoordinated mononuclear Cadmium (II) complex with a pyrimidine derived Schiff Base ligand: Syntheses, Crystal Structures, Photoluminescence and DFT calculations Journal of Molecular Structure 1048 (2013) 98-107
Kinsuk Das, Atanu Jana, Saugata Konar, Sudipta Chatterjee, Tapan Kumar Mondal, Anil Kumar Barik, Susanta Kumar Kar*
- A [2x2] Cu₄ molecular grid and a Mn₅ cluster derived from 1-(2-pyridyl)pyrazole based polytopic ligand - Synthesis, structure, magnetic properties and catalytic activity in the allylic oxidation of cyclohexene Polyhedron 62 (2013) 51-60
Atanu Jana, Saugata Konar, Kinsuk Das, Sangita Ray, James A. Golen, Arnold L. Rheingold, Mohamed Salah El Fallah, Sanghamitra Mukherjee, Samik Gupta, Armando J.L. Pombeiro, Susanta Kumar Kar*
- Five new pseudohalide bridged Mn(II) complexes of pyrimidine derived Schiff base ligands: synthesis crystal structures and magnetic properties Polyhedron 68 (2014) 212-221
Sangita Ray, Saugata Konar, Atanu Jana, Anamika Dhara, Kinsuk Das, Sudipta Chatterjee, Mohamed Salah El Fallah*, Joan Ribas and Susanta Kumar Kar *





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Referred Journal

- A novel 2,6-diformyl-4-methyl phenol based chemosensor for Zn(II) ion by ratiometric displacement of Cd(II) ion and its application for cell imaging on human melanoma cancer cells *Analyst* 139 (2014) 495 - 504
Atanu Jana*, Pradip K. Sukul, Sushil K. Mandal, Saugata Konar, Sangita Ray, Kinsuk Das, James A. Golen, Arnold L. Rheingold, Sudipa Mondal, Tapan K. Mondal, Anisur R. Khuda-Bukhsh and Susanta K. Kar*
- Syntheses, crystal structure, spectroscopic and photoluminescence studies of mononuclear Copper (II), Manganese (II), Cadmium (II), and a 1D polymeric Cu(II) complexes with a Pyrimidine derived Schiff base ligand *Journal of Molecular Structure* 1058 (2014) 213-220
Sangita Ray, Saugata Konar, Atanu Jana, Kinsuk Das, Anamika Dhara, Sudipta Chatterjee, and Susanta Kumar Kar*
- Pyrimidine-Based Fluorescent Zinc Sensor: Photo-physical Characteristics, Quantum Chemical Interpretation and Application in Real Samples *Sensors and Actuators B: Chemical*, 201 (2014) 204-212
Soumya S Mati, Sayantani Chall, Saugata Konar, Soumyadipta Rakshit, Subhash Chandra Bhattacharya*
- An Efficient, Schiff -base Derivative for Selective Fluorescent Sensing of Zn²⁺ Ions: Quantum Chemical Calculation Appended by Real Sample Application and Cell imaging Study *Organic & Biomolecular Chemistry* 12 (2014) 6447-6456
Sayantani Chall, Soumya Sundar Mati, Saugata Konar, Dipti Singharoy, Subhash Chandra Bhattacharya*
- Synthesis of 2D polymeric dicyanamide bridged hexa-coordinated Cu(II) complex: structural characterization, spectral studies and TDDFT calculation *Journal of Molecular Structure* 1075 (2014) 286-291
Saugata Konar*, Urmila Saha, Malay Dolai and Sudipta Chatterjee
- Syntheses, X Ray Crystal Structures and Spectroscopic Characterization of Rare μ -di- σ Pyrazole Based Bridging Keto Carbonyl Complexes Derived from Cd(II) Salts *Polyhedron* 85 (2015) 172-180
Kinsuk Das, Saugata Konar*, Pampi Pal, Atanu Jana, Sudipta Chatterjee, Subrata Mukhopadhyay
- An Unprecedented 2D Cd(II) Coordination Polymer with 3, 6 Connected Binodal Net of Pyrimidine Derived Schiff Base Ligand: Synthesis, Crystal Structure and Spectral Studies *Inorganic Chemistry Communications* 49 (2014) 76-78
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Referred Journal

- Dicynamide bridged two new zig-zag 1-D Zn(II) coordination polymers of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies *Journal of Molecular Structure* 1092 (2015) 34-43
Saugata Konar*
- Synthesis, crystal structures, magnetic properties and DFT calculations of nitrate and oxalate complexes with 3,5 dimethyl-1-(2-pyridyl)-pyrazole-Cu(II) *RSC Advances* 5 (2015) 45082-45091
Pampi Pal, Saugata Konar*, Mohamed Salah El Fallah, Kinsuk Das*, Antonio Bauzá, Antonio Frontera* and Subrata Mukhopadhyay
- Synthesis, crystal structures and theoretical studies of dinuclear Mn(II) and Ni(II) complexes of Phenol-Based "End-Off" Compartmental Ligand *Journal of Molecular Structure* 1100 (2015) 318-327
Atanu Jana*, Kinsuk Das, Saugata Konar*, Anamika Dhara, Sujan Biswas, Sudipta Chatterjee and Tapan Kumar Mondal
- On the Importance of Noncovalent Carbon Bonding Interactions in the Stabilization of a 1D Co(II) Polymeric Chain as Precursor of a Novel 2D Coordination Polymer *J. Phys. Chem. B*, 2016, 120 (27), pp 6803-6811
Pampi Pal, Saugata Konar*, Prem Lama, Kinsuk Das*, Antonio Bauzá, Antonio Frontera* and Subrata Mukhopadhyay
- Synthesis and crystal structure of new copper(II) metal complex: noncovalent interactions and electrical conductance properties *Journal of Molecular Structure* 1152 (2018) 96-100
Sudipta Pathak*, Koushik Chakraborty, Surajit Ghosh, Kunal Roy, Barnali Jana, Saugata Konar*
- Noncovalent interactions and electrical conductance study of copper(II) coordination complex derived from 2,6-pyridinedicarboxylic acid and aminopyrimidine ligands *J. Indian Chem. Soc.*, Vol. 95, February 2018, pp. 1-6
Sudipta Pathak*, Koushik Chakraborty, Surajit Ghosh, Sourav Das, Sudipta Chatterjee, Khokan Samanta and Saugata Konar*
- Two Zinc(II)-Based Metal Complexes of New Pyrimidine Derived Ligand: Anion-Dependent Structural Variations and Charge Transport Property Analysis *J. Phys. Chem. C* 2018, 122, 8724-8734
Saugata Konar*, Arka Dey, Somnath Ray Choudhury, Kinsuk Das, Sudipta Chatterjee, Partha Pratim Ray*, Joaquín Ortega-Castro, Antonio Frontera, Subrata Mukhopadhyay





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Referred Journal

- Terpyridine derivative as “turn-on” fluorescent chemosensor for the selective and sensitive detection of Zn²⁺ ions in solution as well as in live cells Photochemical & Photobiological Sciences, 2018, 17, 1068-1074.
Tripti Mandal, Anowar Hossain, Anamika Dhara, Abdulla Al Masum, Saugata Konar, Saikat Kumar Manna,* Saikat Kumar Seth, Sudipta Pathak* and Subrata Mukhopadhyay
- Synthetic and structural of Cd(II) complexes of tetradentate pyrimidine based Schiff base ligand: Insight through non-covalent interactions, TDDFT calculation and Hirshfeld surface analysis Journal of Molecular Structure 1178 (2019) 682-691
Saugata Konar*, Samir Kanti Datta, Malay Dolai, Amit Das, Sudipta Pathak, Sudipta Chatterjee, Kinsuk Das*
- Exploring selective recognition between Fe²⁺, Fe³⁺ and their implementation in bio-imaging: A combined spectroscopic and theoretical investigation Journal of Molecular Structure 1184 (2019) 102-109
Soumya Sundar Mati *, Dipti Singharoy, Bobby Samai , Saugata Konar, Niranjana Santra, Shaipayan Pal, Palash Das, Shyamal Murmu
- Structures, photoresponse properties and DNA binding abilities of 4-(4-pyridinyl)-2-pyridone salts RSC Adv., 2019, 9, 9663–9677
Tripti Mandal, Arka Dey, Sudipta Pathak, Md. Maidul Islam, Saugata Konar, Joaquín Ortega-Castro, Saikat Kumar Seth, Partha Pratim Ray, Antonio Frontera and Subrata Mukhopadhyay
- Design and synthesis of a sulphur containing Schiff base drug: DNA binding studies and theoretical calculations Journal of Biomolecular Structure and Dynamics, 2021, VOL. 39, NO. 1, 263–271
Urmila Saha*, Malay Dolai, Saugata Konar*, Amit Das, Ray J. Butcher, Gopinatha Suresh Kumar & Subrata Mukhopadhyay
- Investigation of electrical conductance properties, non-covalent interactions and TDDFT calculation of a newly synthesized copper(II) metal complex Journal of Molecular Structure 1206 (2020) 127663
Samit Pramanik , Saugata Konar*, Koushik Chakraborty , Tanusri Pal , Sourav Das , Sudipta Chatterjee, Malay Dolai , Sudipta Pathak, *
- New DNA-Interactive Manganese(II) Complex of Amidooxime: Crystal Structure, DFT Calculation, Biophysical and Molecular Docking Studies J. Chem. Eng. Data 2020, 65, 11, 5393–5404
Urmila Saha, Malay Dolai,* Gopinatha Suresh Kumar, Ray J. Butcher and Saugata Konar





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Referred Journal

- Synthesis, X-ray crystal structure and BVS calculation of Co(II) complex of pyrimidine derived Schiff base ligand: approached by Hirshfeld surface analysis and TDDFT calculation Journal of Molecular Structure, 1236 (2021) 130269
Kinsuk Das*, Malay Dolai, Sudipta Chatterjee, Saugata Konar*
- Solvatochromic behavior of a pyrene-pyrimidine based Schiff base and detection of heavy metal ions in aqueous media Journal of Coordination Chemistry, 2021, VOL. 74, NO. 8, 1272-1283
Swadesh Ghosh, Dipti Singharoy, Saugata Konar, Jnan Prakash Naskar & Subhash Chandra Bhattacharya
- Fabrication of a new heterostructure Au/Pt/SnO₂: An excellent catalyst for fast reduction of para-nitrophenol and visible light assisted photodegradation of dyes Materials Research Bulletin, 141(2021) 111351
Sumanta Jana, Saugata Konar, Bibhas Chandra Mitra, Anup Mondal, Subrata Mukhopadhyay
- An Overview of Heterocyclic Compounds and their Biological Implications Axes, 1 (2019) pp. 29-40.
Saugata Konar.
- Synthesis of an Unprecedented H-stitched Binuclear Crystal Structure Based on Selective Fluorescence Recognition of Zn²⁺ in Newly Synthesized Schiff Base Ligand with DFT and Imaging Application in Living Cells. New J. Chem., 2021, 45, 18459-18471
Soumya Sundar Mati, Saugata Konar and Boby Samai
- Exploration of Weak Interactions in Penta-Substituted Cyclohexanol: Crystal Structure and DFT study, DOI: <https://doi.org/10.54280/21/01>, Journal of Scientific Enquiry (JSE), Vol 1, Issue 1, (2021) 32-42, ISSN 2583-2352
Sudipta Pathak, Shibashis Halder Malay Dola and Saugata Konar *
- Exploration of Weak Interactions and Crystal Structure of Newly Synthesized Cu(II) Complex of Pyrimidine Derived Ligand
Saugata Konar
International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 6 , 2022, ISSN: 2320-2882
- Synthesis, X-ray Crystal Structure of Cu(II) 1D Coordination Polymer: In View of Hirshfeld surface, FMO, Molecular electrostatic potential (MEP) and Natural Bond orbital (NBO) analyses Mridula Guin, Shibashis Halder, Sudipta Chatterjee, Saugata Konar*
Journal of Molecular Structure 1270 (2022) 133949





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Referred Journal

- Competent DNA binder pentagonal bipyramidal Fe(II) complex executed as a proficient catalyst for primary carbamates production from alcohols and urea
Malay Dolai*, Sourav Pakrashy, Alope K.Ghosh, Surajit Biswas*, Saugata Konar*, Fatmah Ali Alasmay, Amani Salem Almalki, Md Ataul Islam
Journal of Molecular Structure 1274 (2023) 134584

Paper Presentations At Conferences

- Presented Poster on International Conference on “facets of weak Interactions in Chemistry” organized by University of Calcutta, 13-15 January, 2011, Kolkata.
- Presented Poster in seminar on one day national conference on “Current trends in Chemical Research” organized by Dept. of Chemistry, Ramakrishna Mission Residential College, June 24, 2011, Narendrapur, Kolkata-103.
- Presented Poster on International Conference on “3rd Asian Conference on Coordination Chemistry”, 17-20 October, New Delhi, India, 2011.
- Presented Poster Presentation on “The 100th Indian Science Congress Association”, 03-07 January, Kolkata, India, 2013.
- Presented Poster on “Modern Trends of Chemistry in the 21st Century” organized by Dept. of Chemistry, St Paul’s Cathedral Mission College, February 6-7, 2012, Kolkata.
- Presented Poster on International Conference on “Molecular Organisation and Complexity: A chemical Perspective” organized by University of Calcutta, February 06-08, 2013, Kolkata.
- Presented Poster Presentation on National Seminar on “Social Function of Sciences-2013 and The Celebration of 150th Birth anniversary of Swami Vivekananda” organized by Jadavpur University, June 14, 2013, Kolkata.
- Presented Poster on International Conference and Expo on “RAPT 2014” organized by University of Calcutta, January 22-24, 2014, Kolkata.
- Presented Poster on The Celebration of National Science Day and Two Days National Science Seminar organized by Faculty of Science, J.U. and World Science Congress, 28th February and 1st March, 2015, Kolkata.





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Paper Presentations At Conferences

- Presented Oral Presentation on International Science Conference organized by World Science Congress, 10th-12th October, 2015, New Delhi.
- Presented Poster on Modern Trends in Inorganic Chemistry-XVI and three days International Science Seminar organized by Department of Chemistry, Jadavpur University on December 3-5, 2015.
- Presented the poster on Chemistry of Functional materials of Current Interest (CFMCI-2016) one day National Seminar organized by Department of Chemistry, Jadavpur University on March 16, 2016.
- Presented the poster on Recent Development In Bio-Active Molecule (RDBAM-2016) two days National Seminar organized by Department of Chemistry, Haldia Govt. College in collaboration with Vivekananda Mission Mahavidyalaya on August 4th-5th, 2016.
- Presented the poster on Environmental Awareness: Demand of the Day two days National Seminar organized by Environmental Development Committee, The B.E.S. College, Kolkata in collaboration with Dept of Environmental Science, University of Calcutta on September 9th and 10th, 2016.
- Presented the poster on Emerging Trends in Chemistry (ETC 2017) one day National Seminar organized by Department of Chemistry, Jadavpur University, Kolkata on February 15th, 2017.
- Presented the poster on Material Chemistry For Better Tomorrow (MCBT 2017) one day National Seminar organized by Department of Chemistry, Ashutosh College, Kolkata on November 07, 2017.
- Presented the poster on Nurturing Chemistry: Bonding and Beyond one day National Seminar organized by Department of Chemistry, The B.E.S. College, Kolkata on December 05, 2017.
- Presented the poster on Recent Trends In Chemical Sciences two days National Seminar organized by Department of Chemistry, Surendranath Evening College, Kolkata on October 05-06, 2018.
- Presented the poster on Current Developments in chemical sciences one day National Seminar organized by Dept. of Chemistry, Jadavpur University on March 7, 2018.
- Presented the poster on The Development of Chemistry House on the pillar of Periodic Table one day National Seminar organized by Dept. of Chemistry, Prabhat Kumar College on October Nov 20, 2019.





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Paper Presentations At Conferences

- Presented the poster on Current trends in chemistry one day International Seminar organized by Dept. of Chemistry, Diamond Harbour Women's University in association with Indian Chemical Society on January 10, 2020.
- Oral presented on International Conference on "Recent advances in Chemistry and Chemical biology" organized by Vijaygarh Jyotish Ray College, Kolkata, August 21, 2022.

Participation In Seminars/ Webinars/ Workshops

- Participated in seminar on International Conference on "FRONTIERS OF FUNCTIONAL MATERIALS" organized by University of Calcutta, 6-7 January, 2009, Kolkata.
- Participated in seminar on International Conference on "FRONTIERS IN INORGANIC CHEMISTRY" organized by Department of Inorganic chemistry, IACS, 11-13 December, 2010, Jadavpur, Kolkata-32.
- Participated on "NATIONAL SEMINAR ON INORGANIC CHEMISTRY-2011 AND THE CELEBRATION OF 150TH BIRTH ANNIVERSARY OF ACHARYA P.C.RAY" on July 8-9, 2011
- Participated on "RSC-INDIA ROAD SHOW" on 05th February, 2013 organized by IACS, Kolkata.
- Participated on "ACHARYA PRAFULLA CHANDRA RAY MEMORIAL SYMPOSIUM ON CHEMISTRY AND INDUSTRY" on August 02-03, 2013 organized by Indian Chemical Society, Kolkata.
- Participated in two days workshop on "MATERIALS CHARACTERIZATION TECHNIQUES" organized by Jadavpur University on October 4th and 5th, 2016.
- Participated in seven days Faculty Development programme on "PREPARING FOR CHALLENGES IN HIGHER EDUCATION INSTITUTION" organized by The B.E.S. College, Kolkata on September 23rd - 29th, 2016.
- Participated in one day State level Seminar on 'HIGHER EDUCATION IN INDIA: ROAD AHEAD' on Nov 19, 2016 Organized by DACEE, Jadavpur University.
- Participated in two days workshop on 'MATERIALS CHARACTERIZATION TECHNIQUES' on October 4-5, 2016 Organized by CoE, TEQIP-II, Jadavpur University.
- Participated in one day seminar on "150TH BIRTH ANNIVERSARY OF SISTER NIVEDITA: CONTEMPORARY RELEVANCE" organized by Dept. of Bengali, The BES College on March 01, 2017.





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Participation In Seminars/ Webinars/ Workshops

- Participated in one day seminar on “FINANCIAL GLOBALIZATION IN INDIA: THEORY AND EMPIRICS” organized by Dept. of Economics, The BES College and the Bangiya Arthaniti Parishad, Kolkata on April 01, 2017.
- Participated in one day State level Seminar on ‘RECENT ADVANCES IN BIO-INORGANIC AND BIO-ORGANIC CHEMISTRY’ on May 6, 2017 Organized by Dept. of Chemistry, Bangabasi Morning College.
- Participated in WBCSST SPONSORED STATE-LEVEL SEMINAR ON Recent advances in Bio-inorganic and Bio-organic chemistry May 06, 2017 Organized by Department of Chemistry Bangabasi Morning College, Kolkata.
- Participated in SCIENCE ACADEMIES’ LECTURE WORKSHOP on “Recent Trends in Chemical Sciences: Issues and Challenges” 29th and 30th November, 2017 Organized by Department of Chemistry, Surendranath College, Kolkata.
- Participated in two days lecture workshop on ‘RECENT TRENDS IN CHEMICAL SCIENCES: ISSUES AND CHALLENGES’ on Nov 29 and 30, 2017 Organized by Dept. of Chemistry, Surendranath College.
- Participated in International Seminar on ‘RECENT TRENDS IN MACROMOLECULAR CHEMISTRY’ (RTMC 2018) on January 10, 2018 Organized by Department of Chemistry, City College, Kolkata.
- Participated workshop in One day panel discussion on “EXPERIMENTS IN THE NEW SYLLABUS OF CHEMISTRY UNDER CBCS” organized by Dept of Chemistry, Basanti Devi College on 10th October, 2018.
- Participated in one day panel discussion on ‘EXPERIMENTS IN THE NEW SYLLABUS.....UNDER CBCS’ on Oct.10, 2018 Organized by Basanti Devi College in collaboration with UG board of studies, CU.
- Participated in one day International Seminar on ‘RECENT TRENDS IN MACROMOLECULAR CHEMISTRY’ on January 10, 2018 Organized by Dept. of Chemistry, City College in association with Indian Chemical Society.
- Participated in State level Seminar on ‘QUALITY IN JOURNALISM’ on Nov 30, 2019 Organized by Indian Association for productivity, Quality and Reliability and The BES College.





Dr. Saugata Konar

Assistant Professor

Department of Chemistry

Participation In Seminars/ Webinars/ Workshops

- Participated in two days State level seminar on “CAS, WBHS and OTHER SERVICE BENEFITS FOR COLLEGE EMPLOYEES” on Two Days June 8 and 9, 2021 organized by Women’s College and Bhairab Ganguly College.
- Participated in the International Mother Language Day Celebration on February 19th & 21st, 2022 Organized by The Department of Bengali (In Collaboration with IQAC) The Bhawanipur Education Society College, Kolkata.
- Participated in the webinar on National Science Day Celebration Organised by Bhattar College, West Medinipur on March 6, 2022.
- Participated in the Webinar entitled entitled “Spectroscopy :A Tool to Investigate Molecules, recent advancements and challenges” held on 30 th December, December, December,2021 organised by Dept. of Chemistry, surendranath College, Kolkata.
- Participated in the one day National Level Webinar on “Intellectual Property Rights(IPR)” organized by IQAC, Tamralipta Mahavidyalaya on 13th November, 2021 organised by Tamralipta Mahavidyalaya.
- Participated in one day national webinar on “Chemical and Laboratory Safety” organized by Chemical Research Society of India (CRSI), Local Chapter Chhattisgarh and School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh held on November 5, 2020.
- Participated in the National Webinar on “Environmental Hazards of Polymers And Its Remedies” organized jointly by the Department of Chemistry & IQAC, Fakir Chand College, Diamond Harbour, South 24 Parganas, on July 12, 2021 organized by Department of Chemistry & IQAC, Fakir Chand College, Diamond Harbour.
- Participated in the one day International Webinar entitled “ChEMoNaTiON-5,”an invited lecture series, organized by Department of Chemistry, Surendranath College, Kolkata on 10th July, 2021.
- Participated in International Webinar on "Dielectric Nanophotonics as an Alternative to Nanoplasmonics" jointly organised by the Department of Electronics and Physics in collaboration with Internal Quality Assurance Cell (IQAC), Bidhan Chandra College, Rishra on 6th September, 2020.
- Participated in two-day International Webinar on Chemistry at the Bio-Chemical Interface organized by the Department of Chemistry & IQAC, St. Paul’s Cathedral Mission College, Kolkata on 29th and 30th August, 2020.





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Participation In Seminars/ Webinars/ Workshops

- Participated in attended the INTERNATIONAL WEBINAR entitled “Chemistry and Recent Developments in Medicinal Field” held on Sunday, August 23, 2020 organised by Department of Chemistry in Association with IQAC, Surendranath Evening College.
- Participated in an online talk on “Scientists under Scanner: When They are Stepping Against the Ethics of Science”, organised by the Department of Chemistry in collaboration with IQAC, The Bhawanipur Education Society College, Kolkata 700020, on August 1, 2020.
- Participated in the webinar on ‘Steps Towards Life: Chemistry!’, by Prof. Jean Marie Lehn, organized by the Dept. of Chemistry, School of Basic and Applied Sciences, Adamas University held on 29.05.2020.
- Participated in the National Level Webinar entitled ‘Environmental Protection through Biodiversity Conservation’ in celebration of World Environment Day on June 5, 2020 organized by the department of ZOOLOGY AND IQAC, SAROJINI NAIDU COLLEGE FOR WOMEN.
- Participated in the Webinar on “Recent Trends in Science and Technology” held on 17th July, 2020 through Google Meet jointly organized by the Departments of Botany, Chemistry, Physiology and Zoology in collaboration with Internal Quality Assurance Cell of Netaji Nagar Day College, affiliated to University of Calcutta.

Awards / Recognitions

Received Best Poster Award on Material Chemistry For Better Tomorrow (MCBT 2017) One Day National Seminar Organized By Department Of Chemistry, Ashutosh College, Kolkata On November 07, 2017

Other Notable Activities

- Organized as a joint coordinator one-day Student Seminar on “CHEM VOICE 2018” at The Bhawanipur Education Society College, October 1, 2018.
- Organized as a joint convenor one-day International Seminar on “Itinerary of Classical to Modern Era of Chemistry” at The Bhawanipur Education Society College, November 4, 2019.





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Department of Chemistry

Other Notable Activities

- As a coordinator organized a National Webinar on “Intellectual Property Rights (IPRs)” organized by Department of Chemistry, The Bhawanipur Education Society College in collaboration with the Patent Office, Kolkata under Department for Promotion of Industry & Internal Trade, Ministry of Commerce & Industry, Government of India
- As a joint convenor organized a National Seminar on “Chemistry Behind Phytochemicals and their Medicinal Importance in Curing Various Diseases of Human Being” held on March 30, 2023 Sponsored by Inclusion and Diversity Fund, Royal Society of Chemistry, London and In Collaboration with Indian Chemical Society, Kolkata, India

Vision Statement

- Help the students identify and solve the major challenges facing civilization in the coming decades. encourage open minds and creative thinkers who will meet the challenges of their generation.
- Help inspire students to develop the self-confidence required to succeed in college in the coming years.
- Encourage engaged and creative minds through ongoing and daily student-centered active-learning lessons.
- Promote the virtues of scientific method, research and scholarly inquiry so students can bring important critical thinking skills to their pursuits outside of college

Signature of the
Faculty Member

Date: 01st September, 2022



**THE BHAWANIPUR
EDUCATION SOCIETY COLLEGE**