



**Professor Ashutosh Ghosh, FASc, FWAScT**  
**Vice-Chancellor, Rani Rashmoni Green University**  
**Tarakeswar, Hooghly, West Bengal**

Office Address: Govt. General Degree College, Singur, Hooghly, West Bengal-712409

**Date of Birth** : December 29, 1959  
**Address (Permanent)** : CG-151, 1<sup>st</sup> Floor, Sector-2, Salt Lake, Kolkata-700091  
**Mobile No.** 9433344484  
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### EDUCATIONAL QUALIFICATIONS

**Ph.D.** Indian Association for the Cultivation of Science, 1987 (Degree awarded by JU)  
**M. Sc.** (Chemistry), University of Calcutta, 1981  
**B. Sc.** (Chemistry Honours), Presidency College, University of Calcutta, 1979

### POST-DOCTORAL RESEARCH/ VISITING ASSIGNMENTS

**UNESCO Fellow** Charles University, Prague, Czechoslovakia; September, 1987- June, 1988;  
Research Field: Polarographic and Voltammetric Analysis

**MONBUSHO Fellow** Department of Chemistry, Nagoya University, Nagoya, Japan; September, 1989-  
October, 1990; Research Field: Molecular Dynamics, Solid State NMR

**JSPS Fellow** Department of Chemistry, Tsukuba University, Tsukuba, Japan; March, 1996-  
January, 1997; Research Field: Molecular Dynamics, NMR Relaxation Time

**Visiting Scientist** Department of Chemistry, University of Utah, Salt Lake City, USA; September,  
2004-September, 2005; Research Field: Supramolecular Chemistry

**Short-Term Visiting Professor (INSA-DFG bilateral exchange program)** University of Dusseldorf and University of Munster, Germany; 30 September,  
2014 - 21 October, 2014.

### POSITIONS HELD

**Lecturer** (5<sup>th</sup> November, 1990-4<sup>th</sup> November 1995) and **Senior Lecturer** (5<sup>th</sup> November, 1995-1<sup>st</sup> January, 1998) in Government Colleges, West Bengal (Jhargram Raj College and Bidhannagar Government College)

**Senior Lecturer** (2<sup>nd</sup> January, 1998-4<sup>th</sup> November 1999), **Reader** (5<sup>th</sup> November, 1999-3<sup>rd</sup> October, 2005), **Professor** (4<sup>th</sup> October, 2005 - till date (on lien)) at the University of Calcutta

### Administrative Experiences

**Head** (October, 2011- September 2013), Department of Chemistry, University of Calcutta.  
**Dean**, Faculty Council for Postgraduate Studies in Science (5<sup>th</sup> August, 2013-4<sup>th</sup> August, 2016), University of Calcutta.  
**Director (Hon.)**, Academic Staff College, University of Calcutta (February, 2015- August, 2015)  
**Director**, Institute of Agricultural Science, Calcutta University, (September, 2015- July, 2016)  
**Vice-Chancellor (Interim)**, University of Calcutta (15<sup>th</sup> July, 2016 -14<sup>th</sup> July 2017)  
**Vice Chancellor**, Rani Rashmoni Green University (20<sup>th</sup> February, 2019 - till date)

## Supervision of Ph.D. Thesis:

**Twenty five** students have been awarded Ph.D. degree and two pre-doctoral students are working at present in my laboratory, Department of Chemistry, University of Calcutta. Names of the students (year) who have been awarded Ph. D. degree are listed below:

1. Rahul Bhattacharya (2004)
2. Mau Sinha Ray (2005)
3. Suparna Banerjee (2006)
4. Shouvik Chattopadhyay (2008)
5. Biswarup Sarkar (2009)
6. Pampa Mukherjee (2009)
7. Chaitali Biswas (2011)
8. Debdulal Maity (2012) (Associate supervisor)
9. Subrata Naiya (2012)
10. Apurba Biswas (2013)
11. Paramita Kar (2013)
12. Saptarshi Biswas (2014)
13. Rituparna Biswas (2014)
14. Lakshmi Kanta Das (2015)
15. Piya Seth (2015)
16. Shantanu Hazra (2016)
17. Soumavo Ghosh (2016)
18. Pallab Bhaumik (2017)
19. Alokesh Hazari (2018)
20. Prithwish Mahapatra (2019)
21. Avijit Das (2020)
22. Monotosh Mondal (2021)
23. Tanmoy Ghosh (2021)
24. Souvik Maity (2021)
25. Sabarni Dutta (2022)

## AWARD & HONOURS

**Rheometric Scientific-ITAS Award (1995):** Presented by the Indian Thermal Analysis Society for “outstanding contributions in the field of thermal analysis”.

**CRSI Bronze Medal (2016):** Presented by Chemical Research Society of India “in recognition of contributions to research in chemistry”.

**Piyadaranjan Ray Memorial Award (2017):** Presented by Indian Chemical Society for “Scholastic contribution to the field of chemical sciences”

**ACT Life Time Achievement Award:** Presented by Association of Chemistry Teachers, TIFR, Mumbai

**Fellow:** West Bengal Academy of Science and Technology (FWAScT)

**Fellow:** Indian Academy of Sciences, Bangalore (FASc)

## SERVED AS MEMBER, UG/PG BOARDS, Court, Council of various institution etc.

**External Member, PG Board of Studies in Chemistry:** Presidency University, Kalyani University, Burdwan University, Vidyasagar University, WB State University, Scottish Church College, Assam University (Silchar)

**Member, UG Board of Studies in Chemistry:** Calcutta University; St. Xavier’s College, Kolkata; Ramakrishna Mission Vidyamandira, Belur.

**NAAC peer team member** (as Chairperson); **Paper setter/Moderator/ advisor** of WBPSA and UPSC

**Presently serving as: Member, Executive Council, SKBU; Member, Court, WBSU. Chairperson, Governing Board, Raja N.L. Khan Women’s College, Midnapore. Member, Board of Research Studies, VU.**

## LIFE MEMBER

Chemical Research Society of India (CRSI), Bangalore

Indian Association for the Cultivation of Science (IACS), Kolkata

Indian Chemical Society, Kolkata

## **SERVED AS COORDINATOR**

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DST-FIST, Department of Chemistry, Calcutta University

UGC-SAP, Department of Chemistry, Calcutta University

DST-PURSE, Calcutta University

## **RESEARCH PROJECTS UNDERTAKEN AS PI/CO-PI**

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Two (as PI)

1. UGC Minor Research Project, duration: 2000-2003, Amount: Rs 50,000/-
2. DST (SERB) Major Project, Duration: 2014-2017, Amount: ~ 45,00,000/-

## **RESEARCH FIELD & PUBLICATIONS**

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**Research Field: Syntheses, Structural Analyses, Magnetic Properties and Catalytic Activities of Polynuclear Transition Metal Complexes**

**301 papers** have been published in journals of international repute. Among these, 239 papers have been published since joining the University of Calcutta in 1998 and starting independent research. Summary of the publications from the University of Calcutta:

**American Chemical Society journals:** 43 (IC -32, CG&D-9, OL-1, Om-1)

**Royal Society of Chemistry journals:** 58 (Dalton Trans.-34, NJC-9, CEC-12, Chem Commun.-1, ICF-1, RSC Adv.-1)

**Willey journals:** 23 (EJIC-18, Chem.-Eur. J-3, ChemistrySelect-2)

**Elsevier journals:** 96 (Polyhedron-45, ICA-37, ICC-8, JMS-4, JMC-2)

Others: 19

**H-index: 51, Total citation received: 8520** (Scopus, as on 31<sup>st</sup> December, 2022)

**Member of the Editorial Board:** Inorganica Chimica Acta (Elsevier's Journal) since 2018

## **List of Publications (Prof. Ashutosh Ghosh)**

1. A mono-nuclear Cu(II) complex of an unsymmetrical Schiff base ligand and its use to synthesise trinuclear  $\text{Cu}^{\text{II}}\text{Mn}^{\text{II}}$  complexes showing anion dependent SMM behaviour  
P. Bhunia, S. Dutta, S. Maity, J. Mayans, A. Escuer, **A. Ghosh**  
*Inorg. Chim. Acta*, **2023**, 545, 121264
2. Pentanuclear MII–MnII (M = Ni and Cu) complexes of  $\text{N}_2\text{O}_2$  donor ligands with the variation of carboxylate anions: syntheses, structures, magnetic properties and catecholase-like activities  
S. Ganguly, P. Bhunia, J. Mayans, **A. Ghosh**  
*New J. Chem.*, **2022**, 46, 17260–17271
3. A Ni(II) chetale of an unsymmetrical  $\text{N}_2\text{O}_3$  donor ligand and its use as flexidentate metalloligand to synthesise heterometallic Ni(II)-Mn(II) complexes: recurrent  $\text{CH}\cdots\pi$  and  $\pi$ -stacking motifs in the structures  
P. Bhunia, R.M. Gomila, M. Font-Bardia, A. Frontera, **A. Ghosh**  
*Inorg. Chim. Acta*, **2022**, 121111
4. Role of Redox-Inactive Metal Ions in Modulating the Reduction Potential of Uranyl Schiff Base Complexes: Detailed Experimental and Theoretical Studies  
T. K. Ghosh, S. Maity, S. Ghosh, R. M. Gomila, A. Frontera, **A. Ghosh**  
*Inorg. Chem.* **2022**, 61, 7130–7142
5. Structures and Magnetic Properties of Carbonato-Bridged Hexanuclear  $\text{Ni}^{\text{II}}\text{Ln}^{\text{III}}_2$  (Ln = Gd, Tb, Dy) Complexes Formed by Atmospheric Carbon Dioxide Fixation in the Absence of an External Base  
S. Maity, T. K. Ghosh, S. Ito, P. Bhunia, T. Ishida, **A. Ghosh**  
*Cryst. Growth Des.* **2022**, 22, 4332–4342
6. An Unprecedented Dodecanuclear Copper(II) Complex Derived from an Unsymmetrical Schiff-Base Ligand  
P. Bhunia, J. Mayans, A. Escuer, **A. Ghosh**  
*ChemistrySelect*, **2022**, 7, e202200321.
7. Estimation of the reducing power and electrochemical behavior of few flavonoids and polyhydroxybenzophenones substantiated by bond dissociation energy: a comparative analysis  
M. S. Dutta, P. Mahapatra, **A. Ghosh**, S. Basu  
*Molecular Diversity*, **2022**, 26, 1101-1113
8. Templated synthesis of Ni(ii) complexes of unsymmetrical Schiff base ligands derived from 1,3-diamino-2-propanol: Structural diversity and magnetic properties  
P. Bhunia, S. Maity, J. Mayans, **A. Ghosh**  
*New J. Chem.*, **2022**, 46, 4363-4372
9. Quasi-isotropic SMMs: Slow relaxation of the magnetization in polynuclear  $\text{Cu}^{\text{II}}/\text{Mn}^{\text{II}}$  complexes  
E. Pilichos, P. Bhunia, M. Font-Bardia, **A. Ghosh**, J. Mayans, A. Escuer  
*Dalton Trans.*, **2022**, 51, 1779-1783
10. Variations of structures on changing the ratios of metal ions in rare Ca(II)–Zn(II) hetero-metallic self-assembled coordination polymers of hexamethylenetetramine and benzoate  
S. Hazra, L. K. Das, R. Bhattacharya, M. G. B. Drew, **A. Ghosh**  
*J. India. Chem. Soc.*, **2021**, 98, 100097
11. Change in molecular shapes of the trinuclear  $\text{Cu}^{\text{II}}\text{Zn}^{\text{II}}$  complexes on Schiff base reduction: structural and theoretical investigations  
**A. Hazari**, R. M. Gomila, A. Frontera, M. G. B. Drew, **A. Ghosh**  
*CrystEngComm*, **2021**, 23, 4848-4856
12. Tri- and pentanuclear  $\text{Cu}^{\text{II}}\text{Cd}^{\text{II}}$  complexes of  $\text{N}_2\text{O}_2$  donor ligands with the variation of carboxylate coligands: Structural elucidation and theoretical study  
S. Ganguly, M.G.B. Drew, R. M. Gomila, A. Frontera, **A. Ghosh**  
*Inorg. Chim. Acta*, **2021**, 521, 120351

13. Synthesis of Ni(ii)-Mn(ii) complexes using a new mononuclear Ni(ii) complex of an unsymmetrical N<sub>2</sub>O<sub>3</sub> donor ligand: structures, magnetic properties and catalytic oxidase activity  
S. Maity, P. Mahapatra, T. K. Ghosh, R. M. Gomila, A. Frontera, **A. Ghosh**  
*Dalton Trans.*, **2021**, 50, 4686-4690
14. Exchange-Bias Quantum Tunneling of the Magnetization in a Dysprosium Dimer  
M. Dolai, E. Moreno-Pineda, W. Wernsdorfer, M. Ali, **A. Ghosh**,  
*J. Phys. Chem. A* 2021, 125, 37, 8230–8237
15. Family of Isomeric Cu<sup>II</sup>-Ln<sup>III</sup> (Ln = Gd, Tb, and Dy) Complexes Presenting Field-Induced Slow Relaxation of Magnetization only for the Members Containing Gd<sup>III</sup>  
T. K. Ghosh, S. Maity, J. Mayans, **A. Ghosh**  
*Inorg. Chem.*, **2021**, 61, 438-448
16. Modulation of Nuclearity in Cu<sup>II</sup>-Mn<sup>II</sup> Complexes of a N<sub>2</sub>O<sub>2</sub> Donor Ligand Depending upon Carboxylate Anions: Structures, Magnetic Properties and Catalytic Oxidase Activities  
S. Ganguly, J. Mayans, **A. Ghosh**  
*Chem. Asian J.*, **2020**, 15, 4055-4069
17. Recurrent  $\pi(\text{arene})\cdots\pi(\text{chelate ring})$  motifs in four trinuclear Cu<sup>II</sup>M<sup>II</sup> (M = Cd/Zn) complexes derived from an unsymmetrical N<sub>2</sub>O<sub>2</sub> donor ligand: Structural and theoretical investigations  
S. Maity, T. K. Ghosh, R. M. Gomila, A. Frontera, **A. Ghosh**  
*CrystEngComm*, **2020**, 22, 7673-7683
18. Hexanuclear Ni<sup>II</sup><sub>4</sub>Ln<sup>III</sup><sub>2</sub> Complexes with SMM Behavior at Zero Field for Ln = Tb, Dy, Ho  
S. Maity, T. K. Ghosh, C. J. Gómez-García, **A. Ghosh**  
*Crystal Growth and Design*, **2020**, 20, 7300-7311
19. Reaction of Cu(II) chelates with uranyl nitrate to form a coordination complex or H-bonded adduct: Experimental observations and rationalization by theoretical calculations  
P. Bhunia, S. Ghosh, R.M. Gomila, A. Frontera, **A. Ghosh**  
*Inorg. Chem.*, **2020**, 59, 15848-15861
20. Joining of Trinuclear Heterometallic Cu<sup>II</sup><sub>2</sub>-M<sup>II</sup> (M = Mn, Cd) Nodes by Nicotinate to Form 1D Chains: Magnetic Properties and Catalytic Activities  
S. Dutta, T.K. Ghosh, P. Mahapatra, **A. Ghosh**  
*Inorg. Chem.*, **2020**, 59, 14989-15003
21. Tetra- and poly-nuclear Cd(ii) complexes of an N<sub>3</sub>O<sub>4</sub> Schiff base ligand: Crystal structures, electrical conductivity and photoswitching properties  
T.K. Ghosh, S. Jana, S. Jana, **A. Ghosh**  
*New J. Chem.*, **2020**, 44, 14733-14743
22. Roles of basicity and steric crowding of anionic coligands in catechol oxidase-like activity of Cu(ii)-Mn(ii) complexes  
S. Dutta, P. Bhunia, J. Mayans, M.G.B. Drew, **A. Ghosh**  
*Dalton Trans.*, **2020**, 49, 11268-11281
23. Application of two Cu(II)-azido based 1D coordination polymers in optoelectronic device: Structural characterization and experimental studies  
M. Mondal, S. Jana, M.G.B. Drew, **A. Ghosh**  
*Polymer*, **2020**, 204, 122815
24. SMM behaviour of heterometallic dinuclear Cu<sup>II</sup>Ln<sup>III</sup> (Ln = Tb and Dy) complexes derived from N<sub>2</sub>O<sub>3</sub> donor unsymmetrical ligands  
S. Maity, P. Bhunia, K. Ichihashi, T. Ishida, **A. Ghosh**  
*New J. Chem.*, **2020**, 44, 6197-6205
25. The effect of guest metal ions on the reduction potentials of uranium(VI) complexes: Experimental and theoretical investigations  
T.K. Ghosh, P. Mahapatra, M.G.B. Drew, A. Franconetti, A. Frontera, **A. Ghosh**

26. Facile synthesis of a new Cu(II) complex with an unsymmetrical ligand and its use as an O<sub>3</sub> donor metalloligand in the synthesis of Cu(II)-Mn(II) complexes: Structures, magnetic properties, and catalytic oxidase activities  
S. Dutta, J. Mayans, **A. Ghosh**  
*Dalton Trans.*, **2020**, *49*, 1276-1291
27. In situ transformation of a tridentate to a tetradentate unsymmetric Schiff base ligand via deaminative coupling in Ni(II) complexes: Crystal structures, magnetic properties and catecholase activity study  
M. Mondal, S. Ghosh, S. Maity, S. Giri, **A. Ghosh**  
*Inorg. Chem. Front.* **2020**, *7*, 247-259
28. Formation of a carbonato bridged Ni<sub>4</sub>-complex by atmospheric CO<sub>2</sub> fixation: Crystal structure and magnetic properties  
M. Modal, J. Mayans, **A. Ghosh**  
*Inorg. Chim. Acta*, **2019**, *498*, 119175
29. Chloranilate bridged dinuclear copper(II) complexes: *Syn-Anti* geometry tuned by the steric factor and supramolecular interactions  
P. Kar, A. Franconetti, A. Frontera, **A. Ghosh**  
*CrystEngComm*, **2019**, *21*, 6886-6893
30. Synthesis, structure and phenoxazinone synthase-like activity of three unprecedented alternating Co<sup>II</sup>-Co<sup>III</sup> 1D chains  
S. Ganguly, P. Kar, M. Chakraborty, K. Sarkar, **A. Ghosh**  
*New J. Chem.*, **2019**, *43*, 18780-18793
31. Two Geometrical Isomers of a 1D Coordination Polymer: Rationalization by Theoretical Calculations and Variation of Electrical Properties with the Change in Binding Mode of Dicarboxylate Linker  
S. Dutta, S. Chakraborty, M.G.B.Drew, A. Frontera, **A. Ghosh**  
*Crystal Growth and Design*, **2019**, *19*, 5819-5828
32. Inclusion of Ln(III) in the Complexes of Co(II) with a Mannich Base Ligand: Development of Atmospheric CO<sub>2</sub> Fixation and Enhancement of Catalytic Oxidase Activities  
**A. Das**, S. Goswami, R. Sen, **A. Ghosh**,  
*Inorg. Chem.*, **2019**, *58*, 5787-5798
33. Tri-nuclear copper-cadmium complexes of a N<sub>2</sub>O<sub>2</sub>-donor ligand with the variation of counter anions: Structural elucidation and theoretical study on inter-molecular interactions  
S. Ganguly, A. Bauza, A. Frontera and **A. Ghosh**  
*Inorg. Chim. Acta*, **2019**, *492*, 142-149
34. Elucidating the secondary effect in the Lewis acid mediated anodic shift of electrochemical oxidation of a Cu(II) complex with a N<sub>2</sub>O<sub>2</sub> donor unsymmetrical ligand  
S. Maity, S. Ghosh, **A. Ghosh**,  
*Dalton Trans.*, **2019**, *48*, 14898-14913
35. The role of 3d<sup>10</sup>4f exchange interaction in SMM behaviour and magnetic refrigeration of carbonato bridged Cu<sup>II</sup><sub>2</sub>Ln<sup>III</sup><sub>2</sub> (Ln = Dy, Tb and Gd) complexes of an unsymmetrical N<sub>2</sub>O<sub>2</sub> donor ligand  
S. Maity, A. Mondal, S. Konar, **A. Ghosh**  
*Dalton Trans.*, **2019**, *48*, 15170-15183
36. Variation of nuclearity in Ni<sup>II</sup> complexes of a Schiff base ligand: Crystal structures and magnetic studies  
T.K. Ghosh, P. Mahapatra, S. Jana, **A. Ghosh**,  
*CrystEngComm*, **2019**, *21*, 4620-4631

37. The catalytic activities and magnetic behaviours of rare  $\mu_3$ -chlorido and  $\mu_{1,1,1}$ -azido bridged defective dicubane tetranuclear Mn(II) complexes  
A. Das, M. Chakraborty, S. Maity, **A. Ghosh**  
*Dalton Trans.*, **2019**, *48*, 9342-9356
38. A series of Cu<sup>II</sup>-Ln<sup>III</sup> complexes of an N<sub>2</sub>O<sub>3</sub> donor asymmetric ligand and a possible Cu<sup>II</sup>-Tb<sup>III</sup> SMM candidate in no bias field  
P. Mahapatra, N. Koizumi, T. Kanetomo, T. Ishida and **A. Ghosh**  
*New J. Chem.*, **2019**, *43*, 634-643
39. Isomerism in heterometallic trinuclear complexes with salen type Schiff base ligands  
**A. Hazari and A. Ghosh**  
*J. Indian Chem. Soc.*, **2018**, *95*, 1597-1606
40. Exploitation of the flexidentate nature of a ligand to synthesize Zn(II) complexes of diverse nuclearity and their use in solid-state naked eye detection and aqueous phase sensing of 2,4,6-trinitrophenol  
T. K. Ghosh, S. Jana and **A. Ghosh**  
*Inorg. Chem.*, **2018**, *57*, 15216-15228
41. Ni(II) Dimers of NNO Donor Tridentate Reduced Schiff Base Ligands as Alkali Metal Ion Capturing Agents: Syntheses, Crystal Structures and Magnetic Properties  
M. Mondal, M. Chakraborty, M.G.B. Drew, **A. Ghosh**  
*Magnetochemistry*, **2018**, *4*, 51
42. Rare azido and hydroxido bridged tetranuclear Co(II) complexes of a polynucleating Mannich base ligand with a defect dicubane core: structures, magnetism and phenoxazinone synthase like activity  
**A. Das, S. Goswami, A. Ghosh**  
*New J. Chem.*, **2018**, *42*, 19377-19389
43. Joining of trinuclear (CuL)<sub>2</sub>M (M = Mn<sup>II</sup> and Cd<sup>II</sup>) nodes by 1,3- and 1,4-benzenedicarboxylate linkers: Positional isomeric effect on co-crystallization  
S. Dutta, S. Jana, P. Mahapatra, A. Bauza, A. Frontera and **A. Ghosh**  
*CrystEngComm*, **2018**, *20*, 6490-6501
44. Tri- and hexa-nuclear Ni<sup>II</sup>-Mn<sup>II</sup> complexes of a N<sub>2</sub>O<sub>2</sub> donor unsymmetrical ligand: Synthesis, structures, magnetic properties and catalytic oxidase activities  
P. Mahapatra, M.G B Drew and **A. Ghosh**  
*Dalton Trans.*, **2018**, *47*, 13957-13971
45. Synthesis, structure and magnetic properties of three Cu<sup>II</sup><sub>2</sub>Ln<sup>III</sup> complexes (Ln = Pr, Nd and Sm) with an unsymmetrical Schiff base ligand  
S. Maity, S. Ghosh, P. Mahapatra and **A. Ghosh**  
*Inorg. Chim. Acta*, **2018**, *482*, 807-812
46. Ni(II) complex of N<sub>2</sub>O<sub>3</sub> donor unsymmetrical ligand and its use for the synthesis of Ni<sup>II</sup>-Mn<sup>II</sup> complexes of diverse nuclearity: Structures, magnetic properties, and catalytic oxidase activities  
P. Mahapatra, M.G.B. Drew, **A. Ghosh**  
*Inorg. Chem.*, **2018**, *57*, 8338-8353
47. Mixed azido/phenoxido bridged trinuclear Cu(II) complexes of Mannich bases: Synthesis, structures, magnetic properties and catalytic oxidase activities  
**A. Das, K. Bhattacharya, L. K. Das, S. Giri, A. Ghosh**  
*Dalton Trans.*, **2018**, *47*, 9385-9399
48. The first alternating Mn<sup>II</sup>-Mn<sup>III</sup> 1D Chain: Structure, magnetic properties and catalytic oxidase activities  
S. Ganguly, P. Kar, M. Chakraborty, **A. Ghosh**  
*New J. Chem.*, **2018**, *42*, 9517-9529

49. Modulation of nuclearity by Zn(II) and Cd(II) in their complexes with a polytopic Mannich base ligand: A turn-on luminescence sensor for Zn(II) and detection of nitroaromatic explosives by Zn(II) complexes  
A. Das, A. Jana, **A. Ghosh**,  
*Crystal Growth & Design*, **2018**, *18*, 2335–2348
50. Fabrication of stable NiO/Fe<sub>2</sub>O<sub>3</sub> heterostructure: A versatile hybrid material for electrochemical sensing of glucose, methanol and enhanced photodecomposition and/photoreduction of water contaminants  
S. Jana, A. Mondal, **A. Ghosh**,  
*Appl. Catal. B: Environ.*, **2018**, *232*, 26-36
51. Syntheses of four new asymmetric Schiff bases and their Cu(II) complexes: Theoretical calculations to rationalize the packing of molecules in the crystals  
P. Mahapatra, A. Bauzá, A. Frontera, M.G.B. Drew, **A. Ghosh**,  
*Inorg. Chim. Acta*, **2018**, *477*, 89-101
52. Role of steric crowding of ligands in the formation of hydroxido bridged di- and trinuclear copper(II) complexes: Structures and magnetic properties  
P. Bhowmik, S. Jana, P. Mahapatra, S. Giri, S. Chattopadhyay, **A. Ghosh**,  
*Polyhedron*, **2018**, *145*, 43-52
53. H-bond assisted coordination bond formation in the 1D chains based on azido and phenoxido bridged tetranuclear Cu(II) complexes with reduced Schiff base ligands  
A. Hazari, C. Diaz, **A. Ghosh**,  
*Polyhedron*, **2018**, *142*, 16-24
54. Control of nuclearity in heterometallic Cu<sup>II</sup>-Mn<sup>II</sup> complexes derived from asymmetric Schiff bases: structures and magnetic properties  
P. Mahapatra, S. Giri, M.G.B. Drew, and **A. Ghosh**  
*Dalton Trans.*, **2018**, *47*, 3568-3579
55. Rare trinuclear Ni<sup>II</sup><sub>2</sub>M<sup>II</sup> complexes (M<sup>II</sup> = Mn, Fe and Co) with a reduced Schiff base ligand: Synthesis, structures and magnetic properties  
A. Hazari, C.J. Gómez-García, M.G.B. Drew, **A. Ghosh**,  
*Inorg. Chim. Acta*, **2018**, *471*, 168-175
56. Structural variations in self-assembled coordination complexes of hexamethylenetetramine, zinc(II) and carboxylates (RCOO<sup>-</sup>, R = -CH<sub>3</sub>/-C<sub>6</sub>H<sub>5</sub>): Encapsulation of the water hexamer in benzoate assembly  
S. Hazra, L.K. Das, S. Giri, M.G.B. Drew, **A. Ghosh**  
*Inorg. Chim. Acta*, **2018**, *471*, 691-697
57. Variations of structures and phenoxazinone synthase-like activity of the complexes based on (Cu<sup>II</sup>)<sub>2</sub>Mn<sup>II</sup> node and dicyanamide spacer  
P. Mahapatra, M.G.B. Drew, and **A. Ghosh**  
*Crystal Growth & Design*, **2017**, *17*, 6809–6820
58. Rare examples of diphenoxido-bridged trinuclear Ni<sup>II</sup><sub>2</sub>Fe<sup>III</sup> complexes with a reduced salen type Schiff base ligand: Structures and magnetic properties  
A. Hazari, C.J. Gómez-García, M.G.B. Drew, **A. Ghosh**  
*Polyhedron*, **2017**, *138*, 145-153
59. Facile synthesis of nickel oxide thin films from PVP encapsulated nickel sulfide thin films: An efficient material for electrochemical sensing of glucose, hydrogen peroxide and photodegradation of dye  
S. Jana, G. Mondal, B. C. Mitra, P. Bera, B. Chakraborty, A. Mondal, **A. Ghosh**  
*New Journal of Chemistry*, **2017**, *24*, 14985-14994



60. Structural variations in  $(\text{CuL})_2\text{Ln}$  complexes of a series of lanthanide ions with a salen-type unsymmetrical Schiff base( $\text{H}_2\text{L}$ ): Dy and Tb derivatives as potential single-molecule magnets  
P. Mahapatra, S. Ghosh, N. Koizumi, T. Kanetomo, T. Ishida, M.G.B. Drew, **A. Ghosh**  
*Dalton Trans.*, **2017**, *46*, 12095-12105
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*The papers listed below are before joining Calcutta University, Summary of these publications:*

*RSC journals: 12 (Dalton Trans:7, NJC-1, JCR(S)-4)*

*Elsevier's journals: 30 (Polyhedron-10, Thermochim. Acta,-17, JMS-2, CPL-1) Others: 20*

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