### Resume

# Dr. PAMPA GUHA, M.Sc., Ph.D.

## **Personal Details**

Sex-Female

Date of Birth: 10.10.1979 Nationality: Indian

Address:

102/1 Raja Rammohan Sarani, Kolkata-700009

West Bengal, India

Contact Details:

Mob No: **+91 9163127468**, Email ID: <u>pampaguha@citycollegekolkata.org</u> pampaguha.guha@gmail.com

**Current Position:** Assistant Professor, Department of Chemistry, City College, 102/1 Raja Rammohan Sarani, Kolkata-700009. (Under Calcutta University).

## **Membership details:**

Member: HUMBOLDT CLUB, KOLKATA

Life Member: INDIAN CHEMICAL SOCIETY, KOLKATA

## **&** Educational qualifications:

Course	University	
B.Sc. (Subject, Hons.)	Chemistry Hons.	
	Bethune College	
	University of Calcutta	
	Kolkata, India	
	1999–2002, 1 <sup>st</sup> Class	
M.Sc. in Subject with	Specialization in Inorganic Chemistry	
(special paper: )	Dept. of Chemistry	
	University College of Science and Technology	
	University of Calcutta	
	Kolkata, India	
	2002–2004, 1 <sup>st</sup> Class	
	,	
Ph.D., Subject, Thesis	Ph.D. (Inorganic Chemistry)	
topic	Dept. of Chemistry	
	University College of Science and Technology	
	University of Calcutta	

	Kolkata, India Advisor: Prof. Ashutosh Ghosh January 2006 - December 2009  Thesis Title: Studies on Multinuclear Transition Metal Complexes
Post Doctoral Experience	Postdoctoral researcher Dept. of Chemistry and Biochemistry Florida State University Tallahassee, Florida, USA Advisor: Dr. Lei Zhu March 2010 – July 2011  Postdoctoral researcher (Alexander von Humboldt research fellow) Institut für Anorganische Chemie Georg-August-Universität Göttingen, Göttingen, Germany Advisor: Prof. Franc Meyer August 2011- July2013  Research associate Dept. of Chemistry University College of Science and Technology University of Calcutta Kolkata, India Advisor: Prof. Ashutosh Ghosh August 2015- June 2016

## **Technical, workshop & Academic Training:**

Orientation Programme	30 <sup>th</sup> Orientation Course organized by UGC-HRDC, Mizoram University, 2020
Refresher courses	UGC Sponsored Refrsher Course Organized by UGC-HRDC, Gauhati University, 2020
Faculty Development programme :	One-week Faculty Development Program on "Online Academic Events and Examination Management" organized by Computer Centre in collaboration with IQAC, Vidyasagar University, 2022
Workshop	WORKSHOP ON UG CHEMISTRY HONOURS PRACTICAL OF SEM 3 (CBCS), CU organised by ASUTOSH COLLEGE, 2019  WORKSHOP ON UG INORG CHEM PRACTICAL OF SEM 4 (CBCS, CU) organized by ST. PAULS COLLEGE, 2020  WORKSHOP ON DBT-STAR PROJECT ORGANIZED BY LADY BRABOURNE COLLEGE, 2023

#### **Previous working experience:**

Sl. No.	Post	College, University and Organisation	Department	Duration
1	Assistant Professor	The Heritage College (affiliated to Calcutta University)	Chemistry	June 2016 – August 2017
2	Guest lecturer	Vidyasagar college for woman, Kolkata, India,	Chemistry	October 2004- March 2006

## **Area of expertise and Research Interest:**

Coordination Chemistry: Transition metal complexes of organic ligands based on Schiff base moiety, 1,2,3-triazole moiety (Click chemistry) and 1,3,5-triazine moiety; studies of intermolecular interactions; Single crystal X-ray diffraction study; UV/VIS spectroscopy; NMR (<sup>1</sup>H, <sup>13</sup>C); fluorescence; mass spectrometry; TGA-DTA (TGA, thermogravimetric analysis; DTA, differential thermal analysis); dynamic light scattering (DLS); elemental analysis; XPS; cyclic voltammetry; FE-SEM, TEM, SAED, EDX, AFM and optical microscope; X-ray powder diffraction (XRPD); Simulated XRPD patterns from single-crystal data (using Hg software); Isothermal titration calorimetry (ITC); EPR etc

#### **Research Projects:**

Ongoing Project: A project grant has been sanctioned by Government of West Bengal, Science & Technology and Biotechnology Department (WBDSTBT)

Title of the Project: Polynuclear Metal Complexes Based on Extended  $\pi$ -Conjugated Double and Triple Schiff Base Ligands – Syntheses, Characterization, and Properties Sanction Letter No. with date: 1410 (Sanc.)/STBT – 11012(25)/44/2021-ST SEC. dt 25.3.2022

**Amount Sanctioned**: Rs. 7,85,000/-

**Duration of the Project**: March, 2022 to March, 2025

#### **Publication:**

## Papers:

1. Acidic pH-Triggered Live-Cell Lysosome Specific Tracking, Ratiometric pH Sensing, and Multicolor Imaging by Visible to NIR Switchable Cy-7 Dyes A. Mukherjee, P. C. Saha, S. Kar, Dr. P. Guha, R. S. Das, T. Bera, Dr. S. Guha ChemBioChem 2023, 24, e202200641

2. Dependence of magnetic coupling on ligands at the axial positions of NiII in phenoxido bridged dimers: experimental observations and DFT studies

M. Mondal, S. Giri, P. M.; Guha, A. Ghosh

Dalton Trans. 2017, 46, 697-708.

3. Deactivation of catecholase-like activity of a dinuclear Ni(II) complex by incorporation of an additional Ni(II)

Mondal, Monotosh; Guha, Pampa M.; Giri, Sanjib; Ghosh, Ashutosh

J. Mol. Catal. A: Chemical 2016, 424, 54-64.

- On the Mechanism of Copper(I)-Catalyzed Azide-Alkyne Cycloaddition L. Zhu, C. J. Brassard, X. Zhang, P. M. Guha, R. J. Clark THE CHEMICAL RECORD, 2016, 16, 1501–1517.
- 5. Structurally Diverse Copper(II) Complexes of Polyaza Ligands Containing 1,2,3-Triazoles: Site Selectivity and Magnetic Properties
  - **P. M. Guha**, H. Phan, J. S. Kinyon, W. S. Brotherton, K. Sreenath, J. T. Simmons, R. J. Clark, N. S. Dalal, M. Shatruk, and L. Zhu.

*Inorg. Chem.*, **2012**, *51*, 3465-3477.

- 6. Experimental Investigation on the Mechanism of Chelation-Assisted, Cu(OAc)<sub>2</sub>-Accelerated Azide-Alkyne Cycloaddition
  - G.-C. Kuang, P. M. Guha, W. S. Brotherton, J. T. Simmons, L. A. Stankee, B. T.

Nguyen, R. J. Clark, and L. Zhu

J. Am. Chem. Soc. 2011, 133, 13984-14001.

7. Tridentate complexes of 2,6-bis(4-substituted-1,2,3-triazol-1-ylmethyl)pyridine and its organic azide precursors: an application of the copper(II) acetate-accelerated azide—alkyne cycloaddition

- W. S. Brotherton, **P. M. Guha**, H. Phan, R. J. Clark, M. Shatruk, L. Zhu *Dalton trans*, **2011**, *40*, 3655-3665.
- 8. Spin-canted antiferromagnetic phase transitions in alternating phenoxo- and carboxylato-bridged Mn(III)-salen complexes
  - P. Kar, P. M. Guha, M. G. B. Drew, T. Ishida, A. Ghosh

Eur. J. Inorg. Chem. 2011, 2075-2085.

- 9. Isolation of a novel intermediate during unsymmetrical to symmetrical rearrangement of
  - a tetradentate Schiff base ligand in a Mn(III) complex: catalytic activity of the rearranged product towards alkenes epoxidation
  - **P. Mukherjee**, P. Kar, S. Ianelli and A. Ghosh *Inorg. Chim. Acta*, **2011**, *365*, 318-324.
- 10. Existance of a very rare self-assembled ribbons of fused cyclic water pentamers encapsulated in a Cu(II) based metal-organic framework
  - P. Mukherjee, M. G. B. Drew and A. Ghosh
  - J. Indian Chem. Soc., 2011, 88, 1265-1271.
- 11. A very rare hydrogen bridged hexanuclear Cu(II) complex containing a triangular Cu<sub>3</sub>O core capped by an unusual triply coordinated perchlorate anion
  - D. Maity, **P. Mukherjee**, A. Ghosh, M.G.B. Drew, C. Diaz, G. Mukhopadhyay *Eur. J. Inorg. Chem.* **2010**, 807-813.
- Solvent-assisted formation of vesicles by a self-assembling Ni<sub>3</sub>-Schiff Base Complex P. Mukherjee, M. G. B. Drew, and A. Ghosh
   Inorg. Chem., 2009, 48, 2364-2370.
- 13. (Ni<sub>2</sub>), (Ni<sub>3</sub>) and (Ni<sub>2</sub> + Ni<sub>3</sub>): A unique example of isolated and co-crystallized Ni<sub>2</sub> and Ni<sub>3</sub> complexes.
  - **P. Mukherjee**, M. G. B. Drew, C.J. Gómez-García, and A. Ghosh *Inorg. Chem.* **2009**, *48*, 4817-4827.

- 14. The crucial role of polyatomic anions in molecular architecture: structural and magnetic versatility of five Ni(II) complexes derived from a N,N,O-donor Schiff base ligand
  - **P. Mukherjee**, M. G. B. Drew, C. J. Gómez-García, and A. Ghosh *Inorg. Chem* **2009**, *48*, 5848-5860.
- 15. Anion directed template synthesis of Cu(II) complexes of a N,N,O donor monocondensed Schiff base ligand: A molecular scaffold forming highly ordered H-bonded rectangular grids
  - P. Mukherjee, O. Sengupta, M. G. B. Drew, A. Ghosh

*Inorg. Chim. Acta* **2009**, *362*, 3285-3291.

- 16. A ferromagnetic linear trinuclear Ni(II)-Schiff base complex supported by phenoxo and cinnamato bridges.
  - **P. Mukherjee**, M. G. B. Drew, V. Tangoulis, M. Estrader, C. Diaz and A. Ghosh *Inorg. Chem. Commun* **2009**, *12*, 929-932.
- 17. Facile strategies for the synthesis and crystallization of linear trinuclear Ni(II)-Schiff base complexes with carboxylate bridges: tuning of coordination geometry and magnetic properties
  - P. Mukherjee, M. G. B. Drew, V. Tangoulis, M. Estrader, C. Diaz and A. Ghosh Polyhedron 2009, 28, 2989-2996.
- 18. Coordination-driven self-assembly of a novel carbonato-bridged heteromolecular neutral nickel(II) triangle by atmospheric CO<sub>2</sub> fixation
  - **P. Mukherjee**, M. G. B. Drew, M. Estrader and A. Ghosh *Inorg. Chem.*, **2008**, *47*, 7784-7791.
- Anion directed template synthesis and hydrolysis of mono-condensed Schiff base of 1,3- pentanediamine and o-hydroxyacetophenone in Ni(II) and Cu(II) complexes
   P. Mukherjee, M.G.B. Drew and A. Ghosh

Eur. J. Inorg. Chem, 2008, 3372-3381.

- 20. Influence of counter anions on the structures and magnetic properties of trinuclear Cu(II) complexes with a  $\mu_3$ -OH core
  - P. Mukherjee, M. G. B. Drew, M. Estrader, C. Diaz, A. Ghosh

Inorg. Chim. Acta, 2008, 361, 161-172.

- 21. A novel trinuclear nickel(II) complex of an unsymmetrical tetradentate ligand involving bridging oxime and acetylacetone functions.
  - D. Maity, **P. Mukherjee**, A. Ghosh, M. G. B. Drew and G. Mukhopadhyay *Inorg. Chim. Acta*, **2008**, *361*, 1515-1519.
- 22. Incorporation of a sodium ion guest in the host of copper(II)-Schiff-base complexes: Structural characterization and magnetic study
  - P. Mukherjee , M. G.B. Drew, A. Figuerola, A. Ghosh
- 23. Anion-directed synthesis of metal-organic frameworks based on 2-picolinate Cu(II) complexes: A ferromagnetic alternating chain and two unprecedented ferromagnetic fish backbone chains.
  - C. Biswas, P. Mukherjee, M.G.B. Drew, C.J. Gómez-García, J.M. Clemente-

Juan, A. Ghosh

Inorg. Chem., 2007, 46, 10771-10780.

Polyhedron 2008, 27, 3343-3350.

- $24. \ Structural \ variations \ in \ Ni(II) \ complexes \ of \ salen \ type \ di-Schiff \ base \ ligands$ 
  - P. Mukherjee, C. Biswas, M. G. B. Drew, A. Ghosh

Polyhedron, 2007, 26, 3121-3128.

## Awards/Recognition/Honors (if Any)

2002	National fellowship for B.Sc
2004	Graduate Aptitude Test in Engineering (GATE), Indian
	Institute of Technology, India.
2005	State Level Elligibility Test (SLET), West Bengal, India
2005	CSIR-UGC NET for Junior Research Fellowship in Chemical
	Sciences, Council of Scientific and Industrial Research, India,
	Short-listed for <b>SPM</b> (Shyama Prasad Mukherjee) fellowship
2008	<b>CSIR-UGC NET</b> for <b>Senior Research Fellowship</b> in Chemical Sciences, Council of Scientific and Industrial Research, India,

Alexander von Humboldt (AvH) fellowship

2010

## **List of Participation in Seminar, Conference and Workshop**

Seminar/Symposium	Organize d By	Date	Particip ated/Pre sented
National Seminar On Material Chemistry For Better Tomorrow	Asutosh College, Indian Chemical society	7.11.17	Poster Abstract
Fundamentals Of Chemistry	Bethune College, Science Academy	17.11.1 7- 18.11.1 7	Participa te
Recent Trends In Chemical Sciences:Issues And Challanges	Surendran ath College, Science Academy	29.11. 17- 30.11. 17	Participa te
International Conference On Chemistry For Human Development	Asima Chatterjee Foundatio n, Hit	8.1.18 - 10.1.18	Poster Abstract
Recent Trends In Macromolecular Chemistry	City College	10.1.18	Jt Convene r
National Symposium On Emerging Trends In Chemical Science	Cu	28.3.18	Poster Abstract
Panel Discussion On Experiments In The New Syllabus Of Chemistry Under CBCS	Basanti Devi College	10.10.1	Participa te
National Seminar On Modern Research Trends In Chemistry	St. Xaviers College	22.2.19 - 23.2.19	Lecture Abstract
National Conference On Future India – Science & Technology	City College, Indian Science Congress Associatio n	27.2.19 - 28.2.19	Member Of Technica 1 Committ ee
Workshop On UG Chemistry Honours Practical Of Sem 3 (Cbcs), CU	Asutosh College	29.7.19	Participa te
International Seminar On Innovation, Expansion, Impacts, Challenges In Chemical And Biological Sciences	Surendran ath College	8.1.20 - 9.1.20	Oral , Book Of Abstract
Workshop On Ug Inorg Chem Practical Of Sem 4 (Cbcs, Cu)	St. Pauls College	19.2.20	Participa te

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## **Workshops/Events organized.**

## Seminar/Symposium

Worked as **Jt. Convener of an international seminar RTMC-2018** held on 10th January 2018 at City College.

Jt. Convener of a National on-line seminar "Covid-19 Pandemic- Challenges and Conquest For Students" held on 26th June 2020 in collaboration with Department of Zoology, City College.

Member of technical committee of a national conference "Future India: Science and Technology" FIST-2019 held on 27-28th February 2019 at City College in collaboration with Indian Science Congress Association, Kolkata chapter.

Convenor of a seminar for National Science Day Celebration held on 25.02.22

Convenor of a 'ONE DAY SEMINAR ON BIOLOGICAL AND PHYSICAL SCIENCE' held on 29 03 2023

Organised 'Woollen Garment Distribution programme' for needy children on 24.12.21 Visited to 'Natun Ghar', a home for destitute women alongwith students on April 2022