

CURRICULUM VITÆ



Name: Dr. Smita Satapathi

Designation: Assistant Professor

Department: Department of Chemistry

Name and address of the college: Netaji Mahavidyalaya, Arambagh,
Hooghly, West Bengal, Pin-712601

Residential address: Rammohan Pally, Ward No. 4, P.O. Arambagh, Dist.
Hooghly, PIN. 712601, West Bengal

Cell Phone: 8617542945

E-mail ID: smitasatapathi@gmail.com

Experience records/Positions Held:

Teaching Experience:

Type of Experience with Designation	Duration	Total Experience	Name of the Institution
Teaching Experience in College as Assistant Professor	Scince 09.06.2017	Above 6 Years (continued)	Netaji Mahavidyalaya, Arambagh, Hooghly

Highest Educational Qualification:

Name of the Degree	Name of the University	Year	Specific Subject Area
Ph. D. in Chemistry as per UGC's Regulation- 2009	The University of Burdwan	2013	Synthetic Coordination Chemistry [Title of the PhD Thesis: Studies on some metal-organic frameworks containing zinc(II), cadmium(II) and mercury(II) in concert with halides/pseudohalides and organic N-donor ligands]
M.Sc. (Chemistry)	The University of Burdwan	2008	Inorganic Chemistry

Area of Research Interest: Synthetic Coordination Chemistry and
Supramolecular Chemistry

Research Experience:

Type of Experience with Designation	Duration (From-To)	Total Experience	Name of the Institution
Research Experience as CSIR Regular Fellow	From 01.07.2009 to 04.06.2013	3 Years 11 Months 4 Days	The University of Burdwan

Publications: Total 20

List of Publications in peer reviewed journals:

1. Syntheses, molecular and crystalline architectures, and luminescence behaviours of two dinuclear cadmium(II) compounds containing a tetradentate N-donor di-Schiff base, S. Das, **S. Satapathi**, S. Roy, K. Bhar, P. Mitra, B. K. Ghosh, *J. Mol. Struct.*, 2010, 982, 113-120.
2. Synthesis, molecular and crystalline architectures, and magnetic properties of neutral nickel(II)dicyanamide coordination polymers containing a symmetrical/unsymmetrical 1,2- diamine as an end-capping ligand, K. Bhar, S. Das, **S. Satapathi**, P. Mitra, J. Ribas, B. K. Ghosh, *Polyhedron*, 2010, 29, 2041-2047.
3. Synthesis, molecular and crystalline architectures, and properties of novel bis(bidentate) and bis(tridentate) Schiff base bridged dinuclear mercury(II) pseudohalides: Control of coordination numbers by varying denticities, S. Chattopadhyay, K. Bhar, S. Das, **S. Satapathi**, H. -K. Fun, P. Mitra, B. K. Ghosh, *Polyhedron*, 2010, 29, 1667-1675.
4. Syntheses, structures and luminescence behaviors of mono- and dinuclear complexes of type $[M(L)(NCS)_2]_n$ [$M = Zn/Hg, n = 1; M = Cd, n = 2; L = (N,N$ -diethyl, N' -(pyridin-2-yl)benzylidene)ethane-1,2-diamine]: Variation of coordination matrices and nuclearities with the change of congeneric metal ions, **S. Satapathi**, S. Das, K. Bhar, R. Krishna Kumar, T. K. Maji, B. K. Ghosh, *Polyhedron*, 2011, 30, 387-396.
5. A new luminous hexacoordinated coordination polymer of cadmium(II) containing benzidine and dicyanamide as bridging units, **S. Satapathi**, S. Chattopadhyay, K. Bhar, S. Das, R. Krishna Kumar, T. K. Maji, B. K. Ghosh, *Inorg. Chem. Commun.*, 2011, 14, 632-635.

6. Syntheses, structures, and properties of two binuclear cadmium(II) iodides containing a bis(tridentate) Schiff base/tetradentate tripodal amine: control of coordination numbers by varying ligand matrices, **S. Satapathi**, S. Roy, K. Bhar, R. Ghosh, A. Srinivasa Rao, B. K. Ghosh, *Struct. Chem.*, 2011, 22, 605-613.
7. A set of new coordination compounds of cadmium(II)/mercury(II) halides/pseudohalides containing polyamines: Syntheses involving in situ metal-ligand reactions, crystal structures and molecular properties, **S. Satapathi**, S. Choubey, K. Bhar, S. Chattopadhyay, P. Mitra, A. M. Z. Slawin, B. K. Ghosh, *Inorg. Chim. Acta*, 2012, 384, 37-46.
8. Syntheses, structures, and properties of two luminous mercury(II) halide compounds containing a tetradentate N-donor Schiff base, **S. Satapathi**, S. Chattopadhyay, S. Roy, K. Bhar, P. Mitra, B. K. Ghosh, *J. Mol. Struct.*, 2012, 1030, 138-144.
9. Syntheses, structures and properties of two luminous mercury(II) bromides containing tridentate N-donor Schiff bases: control of coordination number and nuclearity by varying ligand matrices, **S. Satapathi**, S. Choubey, S. Das, K. Bhar, R. Ghosh, P. Mitra, B. K. Ghosh, *J. Chem. Crystallogr.*, 2012, 42, 1060-1066.
10. Syntheses, structures and luminescence behaviors of zinc(II) complexes containing a tetradentate Schiff base: Variation in nuclearity and geometry with the change of halide/pseudohalide/carboxylate and counter anion, S. Roy, B. N. Sarkar, K. Bhar, **S. Satapathi**, P. Mitra, B. K. Ghosh, *J. Mol. Struct.*, 2013, 1037, 160-169.
11. Synthesis, characterization and molecular and crystalline architectures of two mononuclear mercury(II) iodide complexes containing two tridentate Schiff bases as end-capping ligands, S. Kundu, K. Bhar, **S. Satapathi**, S. Choubey, R. Ghosh, B. K. Ghosh, *J. Indian Chem. Soc.*, 2013, 90, 763-770.
12. Syntheses, structures and properties of pentacoordinated zinc(II) halide complexes containing a tridentate Schiff base as end-capping ligand, S. Roy, S. Kundu, K. Bhar, **S. Satapathi**, P. Mitra, B. K. Ghosh, *Indian J. Chem.*, 2013, 52A, 34-40.
13. Synthesis, structural characterization and luminescence behavior of a mononuclear zinc(II) iodide complex containing a tetradentate Schiff base, B. N. Sarkar, S. Roy, **S. Satapathi**, R. Ghosh, K. Bhar, B. K. Ghosh, *J. Indian Chem. Soc.*, 2013, 90, 943-947.

14. Coordination compounds of benzidine: A versatile family in coordination chemistry and crystal engineering, **S. Satapathi**, *Inorg. Chem. Commun.*, 2015, 56, 22-34.
15. In situ rearrangement of polyamines in the presence of different metal ions, **S. Satapathi**, *Inorg. Chem. Commun.*, 2015, 56, 89-101.
16. Novel coordination compounds containing tri-, tetra- and penta- bridged halides, **S. Satapathi**, *Focus*, 2015, 6, 95-102.
17. Polynuclear gold(III) compounds as anticancer agents, **S. Satapathi**, *J. Adv. Sci. Res.*, 2021, 12(4), 40-46.
18. Anticancer activities of polynuclear gold(I) complexes: A critical survey, **S. Satapathi**, *Bull. Env. Pharmacol. Life Sci.*, 2021, 10(12), 235-243.
19. Mononuclear organometallic compounds of gold(III) as anticancer agents: a critical survey, **S. Satapathi**, *International Journal of Biology, Pharmacy and Allied Sciences*, 2022, 11(8), 3679-3690.
20. A review on mononuclear gold(III) porphyrin compounds as anticancer agents, **S. Satapathi**, *International Journal of Biology, Pharmacy and Allied Sciences*, 2022, 11(11): 5117-5128.

Presentations in Conference:

Seminar Attended:

Date	Organized by	Topic of the seminar	Type	Paper, if presented	Name of the paper published in the related Book (with ISBN No., Year and Page No.)
From 08.10.2015 to 09.10.2015	Department of Chemistry, A.K.P.C. Mahavidyalaya	The Biggest Challenge of Green Chemistry: To Use its Rule in Practice	National Seminar	Chelating Ligands for the Treatment of Metal Toxicity in Living Systems	Chelating Ligands for the Treatment of Metal Toxicity in Living Systems (ISBN No. 978-93- 5254-066-2 , Year 2016 , Page No. 260-270)

Achievements:

1. Successfully qualified **CSIR-NET Exam (Chemical Sciences)** held on **21-12-2008** conducted by **Council of Scientific and Industrial Research (CSIR)**, New Delhi.
2. Successfully qualified **Gate Exam (Chemistry) 2009** conducted by **IIT Roorkee**, Roorkee-247 667.
3. **CSIR JUNIOR Research Fellowship** and **CSIR SENIOR Research Fellowship** granted by **Council of Scientific and Industrial Research (CSIR)**, New Delhi.