

CURRICULUM VITAE

Name: Dr. Smita Satapathi

Designation: Assistant Professor

Department: Department of Chemistry

Name and address of the college: Netaji Mahavidyalaya, Arambagh,
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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 9 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 $[M(L)(NCS)_2]_n$ [$M = Zn/Hg$, $n = 1$; $M = Cd$, $n = 2$; $L = (N,N\text{-diethyl}, N'\text{-(pyridin-2-yl)benzylidene)ethane-1,2-diamine}$]: 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 Seminar/Conference:

Date	Organized by	Topic of the seminar	Type	Paper/Poster Presented	Name of the paper/Poster
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	Paper	Chelating Ligands for the Treatment of Metal Toxicity in Living Systems [Published in the related book with ISBN No. 978-93-5254-066-2, Year 2016, Page No. 260-270]
From 16.12.2025 to 18.12.2025	Department of Chemistry, The University of Burdwan	“Arrangement of Atoms to Assembly of Molecules – Chemistry in Manifold Facet” organized in celebration of the birth centenary of Professor S. C. Rakshit.	International Seminar	Poster	A survey on novel coordination compounds synthesized through <i>in situ</i> metal–polyamine rearrangement reactions
23.12.2025	Department of Chemistry, Bankura University	“International Conference on Current Trends in Chemistry (ICCTC-2025)”	International Conference	Poster	Benzidine-based coordination compounds: A versatile family in supramolecular chemistry and crystal engineering

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.

Course/Programme Completed:

Name of the Course / Summer School	Place	Duration	Sponsoring Agency
Orientation Programme	North Bengal University	15.11.2018-12.12.2018	UGC HRDC
Refresher Course in Chemistry	Jadavpur University	06.01.2021-20.01.2021	UGC HRDC
Refresher Course: Emerging Trends in Science and Technology	The University of Burdwan	09.12.2023 to 22.12.2023	Malaviya Mission Teacher Training Centre
NEP Orientation and Sensitization – 2	The University of Burdwan	01.05.2024 to 10.05.2024	Malaviya Mission Teacher Training Centre
Online Refresher Course in Chemistry	Gujarat University	16.06.2025 to 28.06.2025	Malaviya Mission Teacher Training Centre
NPTEL -AICTE Faculty Development Programme through MOOCs [Course: Bioinorganic Chemistry]	SWAYAM	4-week course [Jan-Feb 2026]	NPTEL -AICTE
NPTEL -AICTE Faculty Development Programme through MOOCs [Course: Co-Ordination Chemistry (Chemistry of Transition Elements)]	SWAYAM	12-week course [Jan-April 2026]	NPTEL -AICTE