Brief CV

Dr. Sanchita Goswami
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Details of Academic Qualifications:

Sl. No.	Degree	University	Year	Subjects	Class
1	B. Sc.	University of Calcutta	2000	Chemistry (Honours) Physics, Mathematics (Pass)	1st
2	M. Sc.	University of Calcutta	2002	Inorganic Chemistry Special	1st
3	CSIR-NET (JRF)	CSIR	2001	Chemical Sciences	
4	Ph. D (Sc.)	Indian Association for the Cultivation of Science	2007	"Synthesis, structure and properties of mono- and poly-nuclear manganese and iron complexes"	

Details of professional training:

JRF	September 2002 to August 2004	Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata - 700032
SRF	September 2004 to November 20, 2005	Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata - 700032

Details of employment:

Lecturer	November 21, 2005 to February 01, 2010	Department of Chemistry, Seth Anandram Jaipuria College 10, Raja Nabakrishna Street Kolkata - 700005
Assistant Professor	February 02, 2010 to November 20, 2017	Department of Chemistry, University of Calcutta
Associate Professor	November 21, 2017 to November 20, 2020	Department of Chemistry, University of Calcutta
Professor	November 21, 2020 to till date	Department of Chemistry, University of Calcutta

Membership of learned societies:

- Life member of Indian Chemical Society (Membership No. 7350)
- Life member of Indian Physical Society (Membership No. 0828)
- Life member of Indian Science News Association (Membership No. 3165)
- Annual member of American Chemical Society (Membership No. 30801704)
- Associate member of Royal Society of Chemistry (Membership No. 584258)

	Number of Ph.D. students guided so far	
	a] Degree awarded	Six
	b] Currently working	Five
	c] Submitted	One
	Publications	
	a] Total Number of Publication in International Journals	Fifty
	b] Total Number of Publication in National Journals	Two
	c] List of publications (2015 – till date)	Annexure- I

Annexure 1

Sr. No.	Author List	Year	Title of the Paper	Full Journal Name	Vol. No. Page No./ DOI No.
1	Senjuti Mandal Barnali Naskar Ritwik Modak Yeasin Sikdar Sudipta Chatterjee Sujan Biswas Tapan Kumar Mondal Debadrita Modak Sanchita Goswami*	2015	Syntheses, crystal structures, spectral study and DFT calculation of three new copper(II) complexes derived from pyridoxal hydrochloride, N,N dimethylethylenediamine and N,N-diethylethylenediamine	Journal of Molecular Structure	1088, 38 - 49
2	Senjuti Mandal Sushil Kumar Mandal Anisur Rahaman Khuda Bukhsh Sanchita Goswami*	2015	Pyridoxal Based Fluorescent Chemosensor for Detection of Copper(II) in Solution With Moderate Selectivity and Live Cell Imaging	Journal of Fluorescence	DOI 10.1007/s10895-015-1634-x
3	Yeasin Sikdar Ritwik Modak Dipayan Bose Saswati Banerjee Dariusz Bieńko Wiktor Zierkiewicz Alina Bieńko, Krishna Das Saha Sudipta Chatterjee Sujan Biswas Tapan Kumar Mondal Debadrita Modak Sanchita Goswami*	2015	Doubly chloro bridged dimeric copper(II) complex: magneto-structural correlation and anticancer activity	Dalton transactions	44, 8876 - 8888
4	Senjuti Mandal Yeasin Sikdar Dilip Kumar Maiti Guru Prasad Maiti Sushil Kumar Mandal Jayanta Kumar Biswas Sanchita Goswami*	2015	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(II) and its application in bio imaging	RSC Advances	5, 72659–72669
5	Ritwik Modak Yeasin Sikdar Goulven Cosquer Sudipta Chatterjee Masahiro Yamashita Sanchita Goswami*	2016	Heterometallic Cu^{II}–Dy^{III} Clusters of Different Nuclearities with SlowMagnetic Relaxation	Inorganic Chemistry	55, 691 - 699

6	Ritwik Modak Yeasin Sikdar Annaliese E. Thuijs George Chritou Sanchita Goswami*	2016	Co^{II}_4, Co^{II}_7, and a Series of $Co^{II}_2Ln^{III}$ (Ln^{III} = $Nd^{III,}$ Sm^{III}, Gd^{III}, Tb^{III}, Dy^{III}) Coordination Clusters: Search for Single Molecule Magnets	Inorganic Chemistry	55, 10192−10202
7	Barnali Naskar Ritwik Modak Yeasin Sikdar Dilip K. Maiti Avishek Banik Tushar Kanti Dangar Subhrakanti Mukhopadhyay Debasish Mandal Sanchita Goswami*	2016	A simple Schiff base molecular logic gate for detection of Zn^{2+} in water and its bio-imaging application in plant system	Journal of Photochemistry and Photobiology A: Chemistry	321, 99 - 109
8	Ritwik Modak Yeasin Sikdar Alina Bienko Maciej Witwicki Maria Jerzykiewicz Sanchita Goswami*	2016	Family of Mn^{III}_4 Ln^{III}_2 (Ln^{III} = Sm^{III}, Gd^{III}, Dy^{III}) coordination clusters:Experimental and theoretical investigations	Polyhedron	119, 202 - 215
9	Barnali Naskar Ritwik Modak Dilip K. Maiti Sushil Kumar Mandal Jayanta Kumar Biswas Tapan Kumar Mondal Sanchita Goswami*	2016	Syntheses and non-covalent interactions of naphthalene-bearing Schiffbase complexes of Zn(II), Co(III), Cu(II) and V(IV): Selective detection of Zn(II)	Polyhedron	117, 834-846
10	Barnali Naskar Ritwik Modak Dilip K. Maiti Michael G. B. Drew Antonio Bauzá Antonio Frontera Chitrangada Das Mukhopadhyay Snehasis Mishra Krishna Das Saha Sanchita Goswami*	2017	A Schiff base platform: structures, sensing of Zn(II) and PPi in aqueous medium and anticancer activity	Dalton Transactions	46, 9498–9510
11	Senjuti Mandal Yeasin Sikdar Ria Sanyal Sanchita Goswami*	2017	Experimental and theoretical study on a new copper(II) complex derived from pyridoxal hydrochloride and 1,2-diaminocyclohexane	Journal of Molecular Structure	1128, 471 – 480

12	Senjuti Mandal Yeasin Sikdar Dilip K. Maiti Ria Sanyal Debasis Das Abhishek Mukherjee Sushil Kumar Mandal Jayanta Kumar Biswas Antonio Bauzá Antonio Frontera Sanchita Goswami*	2017	New pyridoxal based chemosensor for selective detection of Zn^{2+}: Application in live cell imaging and phosphatase activity response	Journal of Photochemistry and Photobiology A: Chemistry	334, 86 - 100
13	Barnali Naskar Ritwik Modak Dilip K. Maiti Antonio Bauza Antonio Frontera Pulak Kumar Maiti Sukhendu Mandal Sanchita Goswami*	2017	A highly selective "ON–OFF" probe for colorimetric and fluorometric sensing of Cu^{2+} in water	RSC Advances	7, 11312–11321
14	Barnali Naskar Ritwik Modak Yeasin Sikdar Dilip K. Maiti Antonio Bauzá Antonio Frontera Atul Katarkar Keya Chaudhuri Sanchita Goswami*	2017	Fluorescent sensing of Al^{3+} by benzophenone based Schiff base chemosensor and live cell imaging applications: Impact of keto-enoltautomerism	Sensors and Actuators B: Chemical	239, 1194 - 1204
15	Pampa Maity Barnali Naskar Sanchita Goswami Chandraday Prodhan Tandrima Chaudhuri Keya Chaudhuri Chhanda Mukhopadhyay	2018	Pyrrolo[3,4-c]pyridine-Based Fluorescent Chemosensor for Fe^{3+}/Fe^{2+} Sensitivity and Their Application in Living HepG2 Cells	ACS Omega	3, 18646−18655
16	Barnali Naskar Antonio Bauzá, Antonio Frontera Dilip K. Maiti Chitrangada Das Mukhopadhyay Sanchita Goswami*	2018	A versatile chemosensor for the detection of Al^{3+} and picric acid (PA) in aqueous solution	Dalton Transactions	47, 15907–15916
17	Riya Bag Yeasin Sikdar Sutapa Sahu Dilip K. Maiti Antonio Frontera Antonio Bauzá Michael G. B. Drew Sanchita	2018	A versatile quinoxaline derivative serves as a colorimetric sensor for strongly acidic pH	Dalton Transactions	47, 17077–17085

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18	Barnali Naskar Kinsuk Das Ramij R. Mondal Dilip K. Maiti Alberto Requena Jose´ Pedro Cero´n-Carrasco Chandraday Prodhan Keya Chaudhuri Sanchita Goswami*	2018	A new fluorescence turn-on chemosensor for nanomolar detection of Al^{3+} constructed from a pyridine–pyrazole system	New Journal of Chemistry	42, 2933—2941
19	Yeasin Sikdar Ranadip Goswami Ritwik Modak Megha Basak Maria Jose´ Heras Ojea Mark Murrie Sanchita Goswami*	2018	Diazine based ligand supported Co^{II}_3 and Co^{II}_4 coordination complexes: role of anions	New Journal of Chemistry	42, 17587--17596
20	Animesh Mondal Barnali Naskar Sanchita Goswami Chandraday Prodhan Keya Chaudhuri Chhanda Mukhopadhyay	2018	I_2 catalyzed access of spiro[indoline-3,4'-pyridine] appended amine dyad: new ON–OFF chemosensors for Cu^{2+} and imaging in living cells	Organic & Biomolecular Chemistry	16, 302 - 315
21	Kajal Mal Barnali Naskar Animesh Mondal Sanchita Goswami Chandraday Prodhan Keya Chaudhuri Chhanda Mukhopadhyay	2018	Dihydroindeno[1,2-b]pyrroles: new Al^{3+} selective off–on chemosensors for bio-imaging in living HepG2 cells	Organic & Biomolecular Chemistry	16, 5920–5931
22	Riya Bag Yeasin Sikdar Sutapa Sahu Pinaki Saha Jayanta Bag Kuntal Pal Sanchita Goswami*	2019	A quinoxaline–diaminomaleonitrile conjugate system for colorimetric detection of Cu^{2+} in 100% aqueous medium: observation of aldehyde to acid transformation	Dalton Transactions	48, 5656-5664
23	Sutapa Sahu Yeasin Sikdar Riya Bag Dilip K. Maiti José Pedro Cerón–Carrasco Sanchita Goswami*	2019	Visual detection of fluoride ion based on ICT mechanism	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	213, 354 - 360

24	Kuheli Das Sanchita Goswami Belete B. Beyene Amogne W. Yibeltal Eugenio Garribba Antonio Frontera Amitabha Datta	2019	EPR, DFT and Electrochemical Interpretation of a Cu(II) Derivative Incorporating a Schiff Base Precursor	Polyhedron	159, 323 - 329
25	Kuheli Das Sanchita Goswami Belete B. Beyene Amogne W. Yibeltal Chiara Massera Eugenio Garribba Antonio Frontera Zerrin Cantürk Tulin Askun Amitabha Datta	2019	Spectral, Electrochemical and DFT Studies of a Trimetallic Cu^{II} Derivative: Antimycobacterial and Cytotoxic Activity	Inorganica Chimica Acta	490, 155 – 162
26.	Riya Bag, Yeasin Sikdar, Pinaki Saha, Prasanta Ghosh, Michael G. B. Drew, and Sanchita Goswami	2020	Fascinating Structures of a Mixed Valence $[Mn^{III}]\cdot[Mn^{II}Mn^{III}]$ Cocrystal and a $Mn^{III}Na^{I}$ Complex: Slow Magnetic Relaxation and Theoretical Investigations	Crystal Growth & Design	20, 1849-1858
27.	Ritwik Modak, Biswajit Mondal, Yeasin Sikdar, Jayisha Banerjee, Enrique Colacio,Itziar Oyarzabal, Joan Cano and Sanchita Goswami*	2020	Slow magnetic relaxation and water oxidation activity of dinuclear $Co^{II}Co^{III}$ and unique triangular $Co^{II}Co^{II}Co^{III}$ mixed-valence complexes	Dalton Transactions	49, 6328-6340
28.	Ritwik Modak,Yeasin Sikdar,Carlos J. Gómez-García, Samia Benmansour, Sudipta Chatterjee and Sanchita Goswami*	2021	Slow Magnetic Relaxation in a Co_2Dy Trimer and a Co_2Dy_2 Tetramer	Chemistry-An Asian Journal	16, 666-677
29.	Riya Bag, Yeasin Sikdar, Sutapa Sahu, Jayanta Bag,Michael G. B. Drew, Kuntal Pal and Sanchita Goswami*	2021	Strategic Substitution of OH/ NR_2 (R=Et, Me) Imparts Colorimetric Switching between F^- and Hg^{2+} by Salicyaldehyde/Benzaldehyde-Quinoxaline Conjugates	ChemPhysChem	e202100718 (1 of 11)
30.	Sutapa Sahu, Yeasin Sikdar, Riya Bag, Dilip K. Maiti, José P. Cerón-Carrasco and Sanchita Goswami*	2021	A Novel Quinoxaline-Rhodamine Conjugate for a Simple and Efficient Detection of Hydrogen Sulphate Ion	Compounds	1, 29 – 40 doi.org/10.3390/compounds1010004

31.	Riya Bag, Yeasin Sikdar, Pinaki Saha, Prasanta Ghosh, Michael G. B. Drew, Jinkui Tang and Sanchita Goswami*	2021	Enhancement of the coordinating flexibility in a Schiff–Mannich combo ligand: forced generation of a new Ni^{II}–$O_{phenoxo}$–Ln^{III}–O_{alkoxo}–Ln^{III} array (Ln = Gd, Tb, Dy and Ho)	New Journal of Chemistry	45, 5258-5265
32.	Riya Bag, Yeasin Sikdar, Sutapa Sahu, Chitrangada Das Mukhopadhyay, Michael G.B. Drew, Sanchita Goswami*	2022	Benzimidazole based ESIPT active chemosensors enable nano–molar detection of Cu^{2+} in 90% aqueous solution, MCF–7 cells, and plants	Journal of Photochemistry & Photobiology, A: Chemistry	431, 114006
33.	Riya Bag, Yeasin Sikdar, Sutapa Sahu, Md Majharul Islam, Sukhendu Mandal, Sanchita Goswami*	2022	Benzimidazole–acid hydrazide Schiff–Mannich combo ligands enable nano–molar detection of Zn^{2+} via fluorescence turn–on mode from semi–aqueous medium, HuH–7 cells, and plants	New Journal of Chemistry	46, 16161-16171
34.	Sutapa Sahu, Yeasin Sikdar, Riya Bag, Michael G. B. Drew, José P. Cerón-Carrasco and Sanchita Goswami*	2022	A Quinoxaline-Naphthaldehyde Conjugate for Colorimetric Determination of Copper Ion	Molecules	27, 2908
35.	Sutapa Sahu, Yeasin Sikdar, Riya Bag, Javier Cerezo, José P. Cerón-Carrasco and Sanchita Goswami*	2022	Turn on Fluorescence Sensing of Zn^{2+} Based on Fused Isoindole-Imidazole Scaffold	Molecules	27, 2859
36.	Riya Bag, Yeasin Sikdar, Sutapa Sahu, Md Majharul Islam, Sukhendu Mandal and Sanchita Goswami*	2023	Experimental and Theoretical Exploration of ESIPT in a Systematically Constructed Series of Benzimidazole Based Schiff Base Probes: Application as Chemosensors	Chemistry-A European Journal	e202203399
37	Priyabrata Bhattacharya, Riya Bag, Soumya Satpathi, Swapan Pati, Ray J. Butcher, Jinkui Tang, Sanchita Goswami*	2023	Structure and magnetism of Ln^{III}_2 (Ln = Gd, Tb, Dy and Ho) assembly constructed from a bis(hydrazone) compartmental ligand : slow magnetic relaxation in Dy^{III}_2 analogue	Crystal Growth & Design	23, 7459-7471
38	Priyabrata Bhattacharya,Riya Bag, Ray J. Butcher, Snehanjali Behera,	2024	Chemistry of a series of heterobimetallic complexes $Mn^{III}_2(Ca^{II}/Sr^{II})X_2$ ($X = Cl^-, Br^-$)	Dalton Transactions	53, 2324-2332

	Biswajit Mondal* and Sanchita Goswami*				
39	Prabhat Sarkar, Shuba Paul, Supratim Das, Tania Chowdhury, Subham Mandal, Sanchita Goswami, Asim Bhaumik and Chhanda Mukhopadhyay	2025	tert-Butylnitrite promoted one-component based direct synthesis of 2-cyano substituted maleimide probes and their fluorescence turn-off sensing towards Fe^{3+}	New Journal of Chemistry	49, 9484-9490

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