BIO-DATA

1. Name and full correspondence address:

Dr. Senjuti Mandal

Flat No. C-5/8, EKT, Phase – IV, Kolkata

State: West Bengal, PIN: 700107

2. Email(s) and contact number(s):

senjuti.mandal@gmail.com

Mob.: +918450029374, +919432942623

3. Date of Birth: 14/04/1987

4. Gender: F5. Category: Gen

6. Whether differently abled: No

7. Academic Qualification:

	Degree	Year	Subject	University	% of marks
1.	B.Sc.	2008	Chemistry (Honours),	University of Calcutta	63.6
	(Honours)		Physics, Mathematics		
2.	M.Sc.	2010	Chemistry	University of Calcutta	73.1
3.	Ph.D.	2019	Chemistry	University of Calcutta	NA

8. Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award:

Ph.D. thesis title: Synthesis, Characterisation, Luminescence Properties And Biological Activities Of Transition Metal Complexes Derived From Fluorescent Schiff Base Ligands

Guide's Name: Dr. Sanchita Goswami

University: University of Calcutta

Year of Award: 2019

9. Work experience:

S.	Position held	Name of the Institute	From	to
No.				
1.	JRF	University of Calcutta	01/07/2011	30/06/2013
2.	SRF	University of Calcutta	01/07/2013	30/06/2016
3.	Guest Lecturer	City College	01/09/2016	30/06/2017
4.	Contractual	Muralidhar Girls'	01/08/2017	Till date
	Whole-Time	College		
	Teacher			

10. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant:

S. No.	Name of the Award	Awarding Agency	Year
1.	Jounior Research Fellow,	UGC, Govt. of India	2011
	NET-2010 (December)		
2.	Senior Research Fellow	UGC, Govt. of India	2013

11. Publications:

S. No.	Author (s)	Title	Name of Journal	Volume	Page	Year
1.	S. Mandal, Y. Sikdar, D. K. Maiti, R. Sanyal, D. Das, A. Mukherjee, S. K. Mandal, J. K. Biswas, A. Bauzá, A. Frontera and S.Goswami	New pyridoxal based chemosensor for selective detection of Zn ²⁺ : application in live cell imaging and phosphatase activity response	J. Photochem. Photobiol. A	334	86 – 100	2017
2.	S. Mandal, Y. Sikdar, R. Sanyal and S. Goswami	Synthesis, crystal structure, spectral study, phosphatase activity and DFT calculation of a new copper(II) complex	J. Mol. Struct.	1128	471 – 480	2017
3.	S. Mandal, Y. Sikdar, D. K. Maiti, G. P. Maiti, S. K. Mandal, J. K. Biswas and S. Goswami	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(II) and its application in bio imaging	RSC Adv.	5	72659 - 69	2015
4.	S. Mandal, B. Naskar, R. Modak, Y. Sikdar, S. Chatterjee, S. Biswas, T. K. Mondal, D. Modak and S. Goswami	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	J. Mol. Struct.	1088	38 – 49	2015
5.	S. Mandal, S. K. Mandal, A. R. Khuda- Bukhsh and S. Goswami	Pyridoxal Based Fluorescent Chemosensor for Detection of Copper(II) in Solution With Moderate Selectivity and Live Cell Imaging	J. Fluoresc.	25	1437– 47	2015
6.	S. Mandal, S. Chatterjee, R. Modak, Y. Sikdar, B. Naskar and S. Goswami	Syntheses, crystal structures, spectral studies, and DFT calculations of two new square planar Ni(II) complexes derived from pyridoxal-based Schiff base ligands	J. Coord. Chem.	67	699 – 713	2014

	A 3.5	a 1	· · · · ·	40=:	251	2011
7.	S. Mandal, R.	Syntheses, crystal structures and	J. Mol. Struct.	1074	271 -	2014
	Modak, Y.	spectroscopic characterization of two			278	
	Sikdar, B.	\ / I				
	Naskar and S.	of a Schiff base ligand derived from				
	Goswami	pyridoxal and 2-(pyrid-2-				
		yl)ethylamine				
8.	R. Modak, Y.	Syntheses, crystallographic	Inorg. Chim.	416	122 -	2014
	Sikdar, S.	characterization, catecholase activity	Acta		134	
	Mandal, S.	and magnetic properties of three				
	Chatterjee, A.	novel aqua bridged dinuclear				
	Bieńko, J.	nickel(II) complexes				
	Mroziński and					
	S. Goswami					
9.	R. Modak, Y.	Homo and heterometallic rhomb-like	Polyhedron	70	155 –	2014
	Sikdar, S.	Ni ₄ and Mn ₂ Ni ₂ complexes			163	
	Mandal, C. J.					
	Gómez-					
	García, S.					
	Benmansour,					
	S. Chatterjee					
	and S.					
	Goswami					
10.	S. Mandal, R.	Synthesis and characterization of a	J. Mol. Struct.	1037	352 -	2013
	Modak and S.	copper(II) complex of a ONN donor			360	
	Goswami	Schiff base ligand derived from				
		pyridoxal and 2-(pyrid-2-				
		yl)ethylamine – A novel pyridoxal				
		based fluorescent probe				
		F. 600				
1.1	D M 11 37		I CI	27	100	2012
11.	R. Modak, Y.	Syntheses, crystal structures and	Inorg. Chem.	37	193 –	2013
	Sikdar, S.	catecholase activity of new dinuclear	Commun.		196	
	Mandal and S.	and cyclic trinuclear mixed valence				
	Goswami	cobalt (II, III) complexes				
12	D. Madala C	Dio[2 [/5 by/decrymontyl]imicth	A a4 a	60	m412	2012
12.	R. Modak, S.	Bis{2-[(5-hydroxypentyl)iminometh-	Acta	69	111412	2013
	Patra, S.	yl]phenolato κ2N,O1}copper(II)	Crystallogr. E		- 412	
	Mandal, Y.				m413	
	Sikdar and S.					
	Goswami					

12. Any other Information:

Research Experience:

- > Synthesis and characterization of ligands and their metal complexes
- Operating Single crystal X-Ray Diffractometer (Bruker)
- Operating steady-state spectroscopic instruments like UV-Visible absorption spectrophotometer and Fluorimeter
- Operating time-resolved spectroscopic instruments like picosecond time correlated single photon counting (TCSPC) apparatus
- Operating ESI-MS instrument
- > Operating pH-meter and conductivity meter
- Performing theoretical calculations based on Gaussian version 09 software
- Analyzing NMR data (¹H-NMR, ¹³C-NMR, DEPT)

Brief details of attended international symposiums and participation in poster presentation:

- ➤ National Seminar on Inorganic Chemistry 2011 and Celebration of 150th Birth Anniversary of Acharya P. C. Ray" during July 08-09, 2011; (organized by Department of Chemistry, Jadavpur University).
- International Symposium on "Chemistry and Complexity" during December 6-8, 2011; (organized by Indian Association for the Cultivation of Science, India).
- ➤ International Symposium named The 100th Indian Science Congress Association, January 3-7, 2013; (organized by the University of Calcutta, Kolkata, India).
- ➤ **Poster presentation** at the International Symposium on Molecular Organisation and Complexity: A Chemical Perspective, February 6-8, 2013; (organized by the Department of Chemistry, University of Calcutta, Kolkata, India).
- ➤ **Poster presentation** at the Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry (2013), August 02-03, 2013; (organized by the Indian Chemical Society).
- ➤ **Poster presentation** at the CRSI-RSC Joint Symposium in Chemistry, February 6-9, 2014; (organized by the Department of Chemistry, IIT, Bombay).
- National Symposium on Recent Advances in Chemistry & Industry (2014), August 01-02, 2014; (organized by the Indian Chemical Society).
- ➤ International Conference on Structural Chemistry of Molecules and Materials, November 30th-December 2nd, 2014; (organized by the Department of Chemistry, University of Calcutta, Kolkata, India).
- National Symposium on Recent Advances in Chemistry & Industry (2015), July 31-August 01, 2015; (organized by the Indian Chemical Society).
- ➤ International Symposium on Modern Trends in Inorganic Chemistry XVI (MTIC-XVI) during December 3-5, 2015; (organized by Department of Chemistry, Jadavpur University.
- ➤ **Poster presentation** at the 18th CRSI National Symposium in Chemistry (NSC-18) and 10th RSC-CRSI symposium, February 4-7, 2016; (organized by Punjab University, Chandigarh).
- ➤ Poster presentation at the National Symposium on Recent Advances in Chemistry Research, March 04, 2016; (organized by the Viswa-bharati University, Santiniketan, India).
- National Symposium on Current Perspectives in Chemical Research, March 30, 2016, (organized by the Department of Chemistry, University of Calcutta, Kolkata, India).