

Dr. Sisir Lohar

Assistant Professor

M. Sc (Chemistry); Ph.D (Chemistry)

Overview:

Dr. Sisir Lohar is an Assistant Professor of the Department of Chemistry, Triveni Devi Bhalotia College, Raniganj. He has been serving this institution since 2015. Dr. Sisir Lohar believes that Chemistry is everywhere in the world around you. It's in the food you eat, clothes you wear, water you drink, medicines, air, cleaners... you name it. It can answer all the basic questions. So, his noble aim is to grow the core interest in the mind of students in his subject as without understanding the chemistry, we cannot enjoy the ambrosia of life.

Date of appointment to the present job: March 23rd, 2015

Other Academic/ Administrative post:

Coordinator M. Sc (for two years), Department of Chemistry (Duration from July 1st, 2018 to June 30th, 2020; extended to till date). V. P. of sports (November 19th, 2016 to February 5th 2020).

Academic background:

Dr. Lohar passed the Higher Secondary Examination in 2003. After that, he obtained his Graduation degree with Honours in Chemistry in 2007 from Vivekananda College, Burdwan and Post-Graduation Degree with Chemistry from The University of Burdwan, Burdwan in 2009. His Special paper in M. Sc. was Nuclear and Analytical Chemistry. He completed his research work for Ph. D degree from The University of Burdwan, Burdwan in 2016.

Information about M Phil/Ph D etc.:

- Ph. D Topic:** "SPECTROFLUORIMETRIC DETERMINATION OF SOME SELECTIVE CATIONS, ANIONS AND AMINO ACIDS WITH NEWLY SYNTHESIZED REAGENTS "

<https://drive.google.com/drive/folders/17SnLwWN79WymSmQxzqTdyVZTrTJXemnz?usp=sharing>

Area of present academic/ Research interest/ Research Projects & Schemes and Collaborations:

- Research interest:** Fluorescence Sensor for toxic species.
- Research projects:** N. A.
- Collaborations:** Dr. D. Das, The University Burdwan, Burdwan

List of Publications:

1. Milan Ghosh, Sabyasachi Ta, Sisir Lohar, Sudipta Das, Paula Brando, Vitor Felix and Debasis Das, Exploring aggregation induced emission through tuning of ligand structure for picomolar detection of pyrene, *J. Mol. Recognit.*, DOI: 10.1002/jmr.2771, 2018. (I.F. 1.9 in 2018)
2. Sangita Adhikari, Sisir Lohar, Babli Kumari, Aparna Banerjee, Rajib Bandopadhyay, Jesu ´n Sanmarti ´n Matalobos and Debasis Das. Cu(II) complex of a new isoindole derivative:

structure, catecholase like activity, antimicrobial properties and bio-molecular interactions, *New J. Chem.*, 40, 10094, 2016. (I.F. 3.3 in 2016)

3. Babli Kumari, Sisir Lohar, Milan Ghosh, Sabyasachi Ta, Archya Sengupta, Prajna Paramita Banerjee, Ansuman Chattopadhyay, Debasis Das, Structurally Characterized Zn²⁺ Selective Ratiometric Fluorescence Probe in 100 % Water for HeLa Cell Imaging: Experimental and Computational Studies, *J Fluoresc.*, 26, 87, 2016. (I.F. 1.7 in 2016)
4. Sudipta Das, Sisir Lohar, Jesús Sanmartín Matalobos and Debasis Das, Visible Light Excitable SCN⁻ Selective Fluorescence Probe Derived from Thiophene, *Chin. J. Chem.*, 33, 1173, 2015. (I.F. 1.9 in 2015)
5. Abhijit Ghosh, Sandip Nandi, Archya Sengupta, Ansuman Chattopadhyay, Sisir Lohar, Debasis Das, Single crystal X-ray structurally characterized palladium(II) selective fluorescence and colorimetric indicator for human breast cancer cell imaging., *Inorg. Chim. Acta.*, 436, 52, 2015. (I.F. 1.9 in 2015)
6. Sisir Lohar, Sougata Sinha, Subrata Ghosh and Debasis Das, Tri-color emission and colorimetric recognition of acetate using semicarbazide and thio-semicarbazide derivatives: Experimental and computational studies., *Spectrochimica Acta Part A*, 155, 75, 2016. (I.F. 2.7 in 2015)
7. Sisir Lohar, Damir A. Safin, Archya Sengupta, Ansuman Chattopadhyay, Jesús Sanmartín Matalobos, Maria G. Babashkina, Koen Robeyns, Mariusz P. Mitoraj, Piotr Kubisiak, Yann Garciab and Debasis Das, Ratiometric sensing of lysine through the formation of the pyrene excimer: experimental and computational studies. *Chem. Commun.*, 51, 8536, 2015. (I.F. 6.6 in 2015)
8. Babli Kumari, Sisir Lohar, Sangita Adhikari, Archya Sengupta, Ansuman Chattopadhyay, Paula Brandão, Vítor Félix and Debasis Das, Rhodamine derived colorimetric and fluorescence mercury (II) chemodosimeter for human breast cancer cell (MCF7) imaging. *RSC Adv.*, 5, 21797, 2015. (I.F. 3.3 in 2015)
9. Structurally Characterized Antipyrine-Based Dual Fluorescent Probe: Enhanced Al^{III} Selectivity of a Dinuclear Zn^{II} Complex for Intracellular Sensing by a Displacement Approach. *Eur. J. Inorg. Chem.*, 2014, 5675. (I.F. 3.0 in 2014)
10. Sangita Adhikari, Abhijit Ghosh, Sandip Mandal, Archya Sengupta, Ansuman Chattopadhyay, Jesús Sanmartín Matalobos, Sisir Lohar and Debasis Das, Visible light excitable ON fluorescence and naked eye detection of Cu²⁺ via hydrolysis of rhodamine–thiophene conjugate: human breast cancer cell (MCF7) imaging studies. *Dalton Trans.*, 43, 7747, 2014. (I.F. 4.2 in 2014)
11. Raja Saha, Animesh Sahana, Sisir Lohar, Arnab Banerjee, Sudipta Das, Debasis Das, pH-controlled solid-phase enrichment of Mn(II): confirmation of the structure of the extracted ternary Mn(II) complex by single crystal X-ray structure analysis, *Desalin. Water Treat.*, 52, 6069, 2014. (I.F. 1.2 in 2014)
12. Sudipta Das, Arnab Banerjee, Sisir Lohar, Bidisha Sarkar, Subhra Kanti Mukhopadhyay, Jesús Sanmartín and Animesh Sahana, Debasis Das, 2-(2-Pyridyl) benzimidazole based ternary Mn(II) complex as arsenate selective turn-on fluorescence probe: ppb level determination and cell imaging studies.. *New J. Chem.*, 38, 2744, 2014. (I.F. 3.1 in 2014)
13. Sudipta Das, Animesh Sahana, Sisir Lohar, Bidisha Sarkar, Subhra Kanti Mukhopadhyay, Arnab Banerjee and Debasis Das, A visible light excitable pyrene–naphthalene conjugate for ON fluorescence sensing of histidine in living cells. *RSC Adv.*, 4, 7495, 2014. (I.F. 3.8 in 2014)

14. Debasis Karak, Sisir Lohar, Animesh Sahana, Subarno Guha, Arnab Banerjee, Jesús Sanmartín Matalobos and Debasis Das, Synthesis and crystallographically characterized thiadiazole derivative as an efficient Fe³⁺ selective fluorescent probe, *J. Indian Chem. Soc. (Calcutta)*, 91, 1053, 2014. (I.F. 0.2 in 2014)
15. Sisir Lohar, Animesh Sahana, Arnab Banerjee, Amarnath Chattopadhyay, Subhra Kanti Mukhopadhyay, Jesús Sanmartín Matalobos, Debasis Das, Aluminum(III) induced green luminescence for naked eye detection: Experimental and computational studies. *Inorganica Chim. Acta*, 412, 67, 2014,. (I.F. 2.0 in 2014)
16. **Sisir Lohar** , Arnab Banerjee , Animesh Sahana , Sukanya Panja , Ipsit Hauli , Subhra Kanti Mukhopadhyay and Debasis Das , Selective fluorescence and naked eye detection of histidine in aqueous medium via hydrogen bonding assisted Schiff base condensation.. ***Tetrahedron Letters***, 55, 174, 2014. **(I.F. 2.4 in 2014)**
17. Arnab Banerjee, Animesh Sahana, **Sisir Lohar**, Sukanya Panja and Subhra Kanti Mukhopadhyay and Debasis Das, Visible Light Excitable Fluorescence Probe and its Functionalized Merrifield Polymer: Selective Sensing and Removal of Arsenate from Real Samples. ***RSC Adv.***, 4, 3887, 2014. **(I.F. 3.8 in 2014)**

Seminars, Webinars and Conferences attended:

- Seminars (National/ International) - 01 in numbers.
- Webinars (National/ International) - 02 in numbers.
- Conferences (National/ International) - 01 in numbers.
- Workshops (National/ International) - 05 in numbers.

Others/ Miscellaneous:

The teaching experience of Dr. Lohar is more than five years in Triveni Devi Bhalotia College, Raniganj. He was appointed as Guest Lecturer in Department of Chemistry, Kazi Nazrul University, Asansol from March 2017 to July 2017 and from March 2017 to July 2018.
