

## DR. SANCHARI PAL

Assistant Professor

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

Email: [sancharipal@tdbcollege.ac.in](mailto:sancharipal@tdbcollege.ac.in)

### » **Overview:**

Dr. Sanchari Pal has completed her Bachelor's Degree in Chemistry (Hons) in 2008 and Master's Degree with specialization in Inorganic Chemistry in 2010, both from Jadavpur University and awarded University Gold Medal in M.Sc. in 2010. She has qualified CSIR-NET in December 2009 and engaged herself in research work at IIT Kanpur. She obtained her Ph.D. degree in 2017 with thesis entitled "Coordination Polymers: Noncovalent Interactions, Structural Chemistry, Photophysical Properties and Synthesis and Studies of Macrobicyclic Cryptands". Then she joined IACS Kolkata in 2017 as National Post-Doctoral Fellow (SERB Project) working on the project entitled "Designing Principle of Polymer Based Anion Responsive Receptors". Presently she is working as Assistant Professor in the Department of Chemistry in Trivenidevi Bhalotia College Raniganj.

### » **Date of appointment to the present job:**

15/07/2020

### » **Other Academic/ Administrative post:**

- Member of College Environment Committee
- Member of Cultural Committee
- Member of Internal Compliant Committee (ICC)
- Member of Seminar Committee

### » **Academic background:**

Dr. Sanchari Pal has completed her schooling at Arambagh Girls High School with 89% marks in Higher Secondary exam from WB board. She has completed her Bachelor's Degree in Chemistry (Hons) in 2008 with 64% and Master's Degree with specialization in Inorganic Chemistry in 2010 with 78% marks, both from Jadavpur University and awarded University Gold Medal in M.Sc. in 2010. She has qualified CSIR-NET in December 2009 (AIR 113) and engaged herself in research work at IIT Kanpur. She has successfully completed the course work with CPI 9.6 and obtained her Ph.D. degree in 2017. Then she joined IACS Kolkata in 2017 as National Post-Doctoral Fellow (SERB Project) and completed the project in 2019. She joined Trivenidevi Bhalotia College Raniganj as Assistant Professor in the Department of Chemistry on 15th July, 2020 and continuing her service.

### » **Information about Ph. D.:**

- **Date of Award:** 16th June 2017
- **Ph. D. Topic:** *Coordination Polymers: Noncovalent Interactions, Structural Chemistry, Photophysical Properties and Synthesis and Studies of Macrobicyclic Cryptands.*
- **Web-link:**

### » **Professional Qualifications:**

- **NET:** CISR, DECEMBER 2009
- **NPDF:** SERB, AUGUST 2017

» **Publications in Journals:**

1. Pal S., Chatterjee N., and Bharadwaj P. K. (2014). Selectively sensing first-row transition metal ions through fluorescence enhancement. *RSC Adv.* 4, pp. 26585-26620.
2. Pal S., Pal T. K., and Bharadwaj P. K. (2016). Solvothermal synthesis of coordination polymers at different temperatures and their luminescence studies. *Cryst Eng Comm.* 18, pp. 1825-1831.
3. Pal S., and Bharadwaj P. K. (2016). A luminescent Terbium MOF containing hydroxyl groups exhibits selective sensing of nitroaromatic compounds and Fe(III) ions. *Cryst. Growth Des.* 16, pp. 5852–5858.
4. Pal S., Ghosh T. K., Ghosh R., Mondal S., and Ghosh P. (2020). Recent Advances in Recognition, Sensing and Extraction of Phosphates: 2015 Onwards. *Coordination Chemistry Reviews.* 405, pp. 213128-213185.
5. Gupta M., De D., Pal S., Pal T. K., and Tomar K. (2017). A porous two-dimensional Zn (II)-coordination polymer exhibiting SC-SC trans metalation with Cu (II): efficient heterogeneous catalysis for the Henry reaction and detection of nitro explosives. *Dalton Trans.* 46, pp. 7619-7627.
6. Sharma V., De D., Pal S., Sahaand P., and Bharadwaj P. K. (2017). Unusual SC-SC transformation of a 2D coordination network to a 3D MOF, aqueous phase detection of nitro explosives and heterogeneous catalysis of Baylis-Hillman reactions. *Inorg. Chem.* 56, pp. 8847–8855.
7. Maji S., Chowdhury B., Pal S., and Ghosh P. (2018). An Indolium Ion Functionalized Naphthalimide Chemo dosimeter for Detection of Cyanide in Aqueous Medium. *Inorganica Chimica Acta.* 483, pp. 321–328.
8. Ghosh T. K., Dutta R., Maji S., Pal S. and Ghosh P. (2019). Removal of Phosphate in Presence of Interfering Sulphate and Arsenate by a Tripodal Thiourea Receptor by Precipitation through Crystallization in SemiAqueous Medium. *Polyhedron.* 172, pp. 74–79.

» **Books and Chapters:**

N. A.

» **Seminars, Conferences, Webinars and workshops attended:**

- Seminars/ Conferences/ Workshops: 06

» **Life Membership:**

N. A.

» **Awards/ Academic Achievements:**

- Awarded University Gold Medal by Jadavpur Univesity in M. Sc.

» **Professional Courses:**

- **Orientation Programme/FDP/FIP:** 01
- **Refresher Course:** 00
- **Short Term Course:** 00

» **Others/ Miscellaneous:**

N. A.