

PROFILE

1. Basic Information

Name: Dr. Deepak Senapati

Designation: Lecturer in Chemistry

Institution: Dinakrushna College, Jaleswar

Date of Joining: 24October2016

Email ID: deepaksenapati.chem@gmail.com

Contact Number: 9040734706



2. Academic Qualifications

Degree	Subject	University / Year
Ph.D.	Material Chemistry	KIIT University -2025
M.Sc.	Chemistry	Ravenshaw University- 2014
B.Sc. Mathematics (Hons.)	Mathematics (Hons.)	F.M. University -2012

3. Teaching Experience

Total Teaching Experience: 10 Years

Hons Teaching Experience: 10 Years

4. Area of Specialization

Specialization: Organic Chemistry and Inorganic Chemistry

5. Courses Taught

Courses: Physical Chemistry, Organic Chemistry. Inorganic Chemistry, Material Chemistry, Environmental Chemistry and Spectroscopic Techniques and Characterization of Materials.

6. Research Details

Area of Research: Material Chemistry

Ph.D. Topic: “Metal Organic Frameworks and Their Composite for the Degradation of Organic Pollutants in Water and Drug Delivery Application”

7. Publications

Journals: Published a number of papers in Journals of national and international repute

1. Senapati, D., Swain, J., Priyadarshini, A., Hajra, S., Kim, H. J., Samantaray, R., ... & Sahu, R. (2025). Photocatalytic removal of congo red dye using ZIF-8@ BiVO₄: impact of catalyst design and operational parameters. *Journal of Materials Science: Materials in Electronics*, 36(11), 667.
2. Priyadarshini, A., Senapati, D., Das, N., Gupta, S., Swain, J., Samal, D., ... & Sahu, R. (2025). Development of UiO-66 and ZIF-8 MOF Nanocarriers for Anticancer Drug Delivery in Breast Cancer Cells. *Chemistry–An Asian Journal*, 20(21), e00672.

3. Das, N., Senapati, D., Priyadarshini, A., Das, A., Panda, J., Swain, J., ... & Sahu, R. (2026). ZIF derived ZnO for efficient photocatalytic degradation of organic pollutants. *ChemistrySelect*, 11(6), e06091.
4. Senapati, D., Biswal, S. P., Panda, J., Aranganayagam, K. R., Samantaray, R., & Sahu, R. (2023, March). Removal of industrial dyes from aqueous medium by uio-66 metal organic frameworks (MOFs): A correlative analysis of adsorption behavior. In *AIP conference proceedings* (Vol. 2740, No. 1, p. 060013). AIP Publishing LLC.
5. SENAPATI, D., PRIYADARSHINI, A., SAMAL, D., BABU, P. R., SAHOO, S., BERA, N. C., ... & SAHU, R. (2025). Mechanochemical synthesis of Ni (II)-tptz complexes with co-ligands: Spectroscopy, DFT, and biological studies. *Journal of Metals, Materials and Minerals*, 35(2), e2324-e2324.

Book Chapters:

1. Soren, S., Sahoo, T., Panda, J., Senapati, D. K., Sahu, J. R., Rath, C. K., & Sahu, R. (2021). Carbon Dioxide-Based Green Solvents. In *Carbon Dioxide Utilization to Sustainable Energy and Fuels* (pp. 323-333). Cham: Springer International Publishing.
2. Senapati, D., Panda, J., Tripathy, R., Sahoo, T., Sahu, J. R., Hembram, M., ... & Sahu, R. (2021). Graphene Composite Membrane for Water Desalination. In *Sustainable Materials and Systems for Water Desalination* (pp. 227-240). Cham: Springer International Publishing.
3. Hembram, M., Tripathy, R., Panda, J., Sahoo, T., Soren, S., Senapati, D., ... & Sahu, R. (2021). Solid-state green synthesis of different nanoparticles. In *Advances in Green Synthesis: Avenues and Sustainability* (pp. 289-301). Cham: Springer International Publishing.
4. Hembram, M., Tripathy, R., Panda, J., Sahoo, T., Soren, S., Senapati, D., ... & Sahu, R. (2021). Solid-state green synthesis of different nanoparticles. In *Advances in Green Synthesis: Avenues and Sustainability* (pp. 289-301). Cham: Springer International Publishing.

8. Seminar / Workshop / FDP/Refresher Courses Attended

Programmes:

1. Refresher Course in Chemistry at S. G. T. B. Khalsa College, University of Delhi 2021
2. Refresher Course in Chemistry at Sambalpur University 2021
3. Faculty Development Program at S. G. T. B. Khalsa College, University of Delhi 2020
4. Faculty Development Program at Coimbatore Institute of Technology 2020
5. Presented a Paper at international Conference on Recent Advances in Materials for Circular Economy and Technology 2024 at ITER, Siksha O Anusandhan Bhubaneswar

9. Administrative Responsibilities

Responsibilities:

At present: Accounts Bursar, D.K. College, Jaleswar

10. Research Guidance

Guidance: B.Sc. (Hons) Dissertations Guided: 20

Deepak Senapati