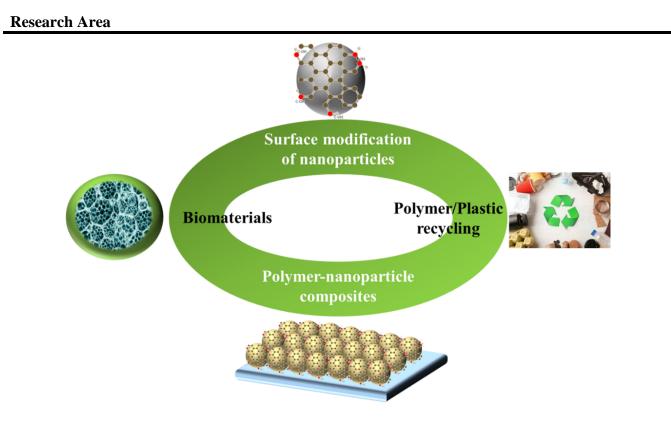


Institute of Chemical Technology IndianOil Odisha Campus Bhubaneswar



Dr. Smrutirekha Mishra Assistant Professor (Materials and Polymer Engineering) Institute of Chemical Technology IndianOil Odisha Campus, Bhubaneswar-751013 Contact No: +91-9560154816 Email ID: s.mishra@iocb.ictmumbai.edu.in, smruti.wisdom@gmail.com Skype ID: smruti.mishra19





Education

- Ph. D: Department of Materials Science and Engineering, Indian Institute of Technology Delhi (IIT Delhi).
 Ph.D (Visiting Scientist): National Chiao Tung University (NCTU) Taiwan "NCTU Taiwan Elite Scholarship"
- Master in Engineering (M.E): *Plastics and Polymer Engineering*, Central Institute of Plastics Engineering and Technology (CIPET), Ahmedabad.
- Bachelors of Technology (B. Tech): *Plastics and polymer engineering*, Central Institute of Plastics Engineering and Technology (CIPET), Bhubaneswar

Selected Publications

- 1. Priming the pores of mesoporous silica nanoparticles with an in-built RAFT agent for anchoring a thermally responsive polymer, **Smrutirekha Mishra**, James M. Hook, Leena Nebhani, Microporous and Mesoporous Materials 277, 2019, 60–69
- 2. Imprinting the location of an in-built RAFT agent and selective grafting of polymer chains inside or outside the pores of mesoporous silica nanoparticles, **Smrutirekha Mishra**, Aditya Rawal, Leena Nebhani, Microporous and Mesoporous Materials 294, 2020, 109898
- Hybrid mesoporous silica based nanocarriers for responsive drug release in cancerous cell line, Smrutirekha Mishra, Arti Kataria, Bishwajit Kundu, Leena Nebhani, Applied Nanoscience, 20, 2020, 65
- 4. Tuning shear thickening behavior via synthesis of organically modified silica to improve impact resistance of Kevlar fabric, Subhendu Kumar Sahoo, **Smrutirekha Mishra**, Ehteshamul Islam, Leena Nebhani, Materials Today Communications, 23, 2020, 100892
- Combined effect of functionality and pore size on dehydrogenation of ammonia borane via its nanoconfinement in polyacrylamide grafted organically modified mesoporous silica, Smrutirekha Mishra; Po-Cheng Kang; Rui-Fang Guo; Cheng-Yu Wang; Leena Nebhani, ACS Applied Energy Materials, 4, 2021, 6585-6598

List of Awards and Honors

- 1. Post-Doctoral Fellowship 2020-University of Padova, Italy (Not taken)
- 2. NCTU Taiwan Elite scholarship, 2019
- 3. 3rd position in ORAL presentation at YRS-2019, IIT Delhi
- 4. Consolation award Open house demonstration 2018, IIT Delhi
- 5. 3rd position in master's degree 2015, CIPET Ahmedabad
- 6. Consolation award at APM-2013 (International Conference), Lucknow
- 7. 2nd.position in undergraduate ORAL talk, VIDYANSH-2012, CIPET Bhubaneswar
- 8. 1st.position in undergraduate ORAL talk, VIDYANSH-2011, CIPET Bhubaneswar
- 9. Child scientist award district level 2004 on aerospace innovation
- 10. State scholarship award from 1993 -2003