

List of Publications

1. **R. Mishra**, S. Gupta, A. Kumar, R. Prakash, "Morphology-controlled approach for bulk synthesis of conducting Poly (5-aminoindole)." *Mater. Chem. Phys.* 183 (2016) 606-614, DOI: 10.1016/j.matchemphys.2016.09.023.
2. **R. Mishra**, S. Mishra, C. Upadhyay, R. Prakash, "DDAB-Triggered, Size-Sorted, Instant Phase-Switching of Silver Nanoparticles." *ChemistrySelect* 2 (2017) 3028-3034, DOI: 10.1002/slct.201602012.
3. **R. Mishra**, R. K. Pandey, C. Upadhyay, R. Prakash, "Self-Assembly of Solution-Processable Polyindole via Langmuir-Blodgett Technique: An Insight to Layer-Dependent Charge Transport and Electronic Parameters." *ChemistrySelect* 2 (2017) 6009-6015, DOI: 10.1002/slct.201700794.
4. **R. Mishra**, N. R. Nirala, R. K. Pandey, R. P. Ojha, R. Prakash, "Homogenous dispersion of MoS₂ nanosheets in polyindole matrix at air-water interface assisted by Langmuir technique." *Langmuir* 2017, DOI: 10.1021/acs.langmuir.7b03019.
5. **R. Mishra**, R. K. Pandey, R. Prakash, "Mobile liquid-substrate for self-assembly of solution-processable poly (5-aminoindole) by Langmuir technique." *Vacuum* 2018, DOI: 10.1016/j.vacuum.2018.04.013.
6. **R. Mishra**, R. K. Pandey, S. Jana, C. Upadhyay, R. Prakash, "Interfacial dispersion of phase transferred silver nanoparticles into polyindole Langmuir film and ordering enhancement for electronic device application." (Communicated).

As Co-author in other work but not related to Ph.D. thesis:

7. R. K. Pandey, **R. Mishra**, P. Tiwari, R. Prakash, "Interface engineering for enhancement in performance of organic/inorganic hybrid heterojunction diode." *Organic Electronics* 45 (2017) 26-32, DOI: 10.1016/j.orgel.2017.02.032.
8. P. Tiwari, M. Srivastava, **R. Mishra**, G. Ji, R. Prakash, "Economic use of Waste Musa Paradisica Peels for effective control of mild steel loss in aggressive acid solutions." *J. Environ. Chem. Engg.* 6 (2018) DOI: 10.1016/j.jece.2018.07.016
9. R. K. Pandey, **R. Mishra**, R. Prakash, G. Ji, "Layered deposition of air-water interface grown, edge on oriented and ultrathin squaraine film over copper substrate for its effective corrosion prevention" (Communicated).
10. R.P. Ojha, **R. Mishra**, N.R. Nirala, R. Prakash, MoS₂ quantum dot stabilized silver nanoparticles for instant naked-eye colorimetric detection of mercury (II) ion (Communicated).

List of Publications

Seminar and Symposium

1. Workshop on “Advanced microscopy and imaging techniques” organised by Olympus and IIT BHU, August, 2015.
2. International conference on Nanomaterials and Nanotechnology (NANO-2015), KSR institutions, Chennai (Poster presentation).
3. Workshop and Conference on “International Conference on Electron Microscopy” organised by Electron Microscope Society of India and IIT BHU, 2016.
4. 18th National Symposium in Chemistry, CRSI-2016, Punjab University, Punjab (Poster presentation).
5. International Conference of Young Researchers on Advanced Materials (IUMRS - ICYRAM 2016), Indian Institute of Science, Bangalore (Poster presentation).
6. NCEEIS-2017, K.N.P.G College, Varanasi (Poster presentation).
7. Advances in Biological Systems and Materials Science in Nano World (ABSMSNW-2017), Department of Physics, IIT (BHU) (Poster presentation).
8. 4th International Conference on Nanoscience and Nanotechnology-2017 (ICONN-17), SRM University, Chennai (Poster presentation).
9. International Conference on Thin Films (ICTF-2017), NPL, Delhi (conference proceedings).
10. 4th International conference on Electrochemistry at Italy, 2018 (Oral presentation).
11. International conference on Advanced Materials, Energy and Environmental stability (ICAMEES), Dehradun, 2018 (Oral presentation).