

List of Publication

Thesis Publications (5):

* This paper included in this thesis.

*1) S. Maity, P. Mazumdar, M. Shyamal, G. P. Sahoo, A. Misra, Crystal Induced Phosphorescence from Benz(a)anthracene Microcrystals at Room Temperature, *Spectrochim. Acta A* 157 (2016) 61–68.

*2) S. Maity, M. Shyamal, P. Mazumdar, G. P. Sahoo, R. Maity, G. Salgado-Morán, A. Misra, Solvatochromism and “turn-off” Fluorescence Sensing Property of N,N'-bis(3-pentyl)perylene-3,4,9,10-bis(dicarboximide) towards Nitroaromatics and Photophysical Study of Its Microstructures, *J. Mol. Liq.* 224 (2016) 255–264.

*3) S. Maity, M. Shyamal, D. Das, P. Mazumdar, G. P. Sahoo, A. Misra, Aggregation Induced Emission Enhancement from Antipyrine Based Schiff Base and Its Selective Sensing towards Picric Acid, *Sens. Actuators B: Chem.* 248 (2017) 223–233.

*4) S. Maity, M. Shyamal, D. Das, A. Maity, S. Dey, A. Misra, Proton triggered emission and selective sensing of 2,4,6-trinitrophenol using a fluorescent hydrosol of 2-phenylquinoline, *New J. Chem.* 42 (2018) 1879–1891.

5) S. Maity, M. Shyamal, S. Dey, R. Maity, P. Hazra, S. Pyne, A. Misra, An Efficient Fluorogenic “Turn-on” Dual Chemosensor for Al³⁺ and Zn²⁺ with Distinct Colour Change and Its AIEE Behaviour, *Photochem. Photobiol. Sci.*, (2019) (Communicated).

Contribution to other publications (8):

Contribution to other published papers as follows

- 6) P. Mazumdar, S. Maity, M. Shyamal, G. P. Sahoo, G. Salgado-Morán, A. Misra, Proton Triggered Emission and Selective Sensing of Picric Acid by the Fluorescent Aggregates of 6,7-Dimethyl-2,3-bis-(2-pyridyl)-quinoxaline, *Phys. Chem. Chem. Phys.* **18** (2016) 7055-7067.
- 7) P. Mazumdar, S. Maity, D. Das, S. Samanta, M. Shyamal, A. Misra, Proton Induced Green Emission from AIEE Active 2,2'-Biquinoline Hydrosol and Its Selective Fluorescence "turn-on" Sensing Property towards Zn²⁺ Ion in Water, *Sens. Actuators B: Chem.* **238** (2017) 1266-1276.
- 8) M. Shyamal, S. Maity, P. Mazumdar, G. P. Sahoo, R. Maity, A. Misra, Synthesis of An Efficient Pyrene Based AIE Active Functional Material for Selective Sensing of 2,4,6-Trinitrophenol, *J. Photochem. Photobiol. A: Chemistry* **342** (2017) 1-14 .
- 9) M. Shyamal, S. Maity, G. P. Sahoo, R. Maity, A. Misra, Aggregation Induced Emission Based "turn-off" Fluorescent Chemosensor for Selective and Swift Sensing of Mercury (II) Ions in Water, *Sens. Actuators B: Chem.* **263** (2018) 347-359.
- 10) M. Shyamal, P. Mazumdar, S. Maity, G. P. Sahoo, G. Salgado-Morán, A. Misra, Pyrene Scaffold as Real-Time Fluorescent Turn-on Chemosensor for Selective Detection of Trace-Level Al(III) and Its Aggregation-Induced Emission Enhancement, *J. Phys. Chem. A* **120** (2016) 210-220.
- 11) M. Shyamal, P. Mazumdar, S. Maity, S. Samanta, G. P. Sahoo, A. Misra, Highly Selective Turn-On Fluorogenic Chemosensor for Robust Quantification of Zn(II) Based on Aggregation Induced Emission Enhancement Feature, *ACS Sens.* **1** (2016) 739-747.

12) D. Das, A. Maity, M. Shyamal, S. Maity, N. Mudi, A. Misra, Aggregation induced emission of 9-Anthraldehyde microstructures and its selective sensing behavior towards picric acid, *J. Mol. Liq.* 261 (2018) 446–455.

13) S. Dey, A. Maity, M. Shyamal, D. Das, S. Maity, P. K. Giri, N. Mudi, S. S. Samanta, P. Hazra, A. Misra, An antipyrine based fluorescence “turn-on” dual sensor for Zn^{2+} and Al^{3+} and its selective fluorescence “turn-off” sensing towards 2,4,6-trinitrophenol (TNP) in the aggregated state, *Photochem. Photobiol. Sci.*, 18 (2019) 2717–2729.

