

List of Published Paper

1. Ankita Gangopadhyay, Syed Samim Ali, Uday Narayan Guria, Sandip Kumar Samanta, Ripon Sarkar, Pallab Datta and Ajit Kumar Mahapatra, A ratiometric hypochlorite sensor guided by PET controlled ESIPT output with real time application in commercial bleach, *New J. Chem.*, **2018**,*42*, 15990-15996.
2. Syed Samim Ali, Ankita Gangopadhyay, Ajoy Kumar Pramanik, Sandip Kumar Samanta, Uday Narayan Guria, Srimanta Manna and Ajit Kumar Mahapatra, Real time detection of the nerve agent simulant diethylchlorophosphate by nonfluorophoric small molecules generating a cyclization-induced fluorogenic response, *Analyst*, **2018**,*143*, 4171-4179.
3. Ankita Gangopadhyay, Kalipada Maiti, Syed Samim Ali, Ajoy Kumar Pramanik, Uday Narayan Guria, Sandip Kumar Samanta, Ripon Sarkar, Pallab Datta and **Ajit Kumar Mahapatra**, A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emission from plywood, *Anal. Methods*, **2018**,*10*, 2888-2894.
4. Srimanta Manna, Parthasarathi Karmakar, Syed Samim Ali, Uday Narayan Guria, Ripon Sarkar, Pallab Datta, Debasish Mandal and **Ajit Kumar Mahapatra**, A Michael addition–cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging, *New J. Chem.*, **2018**, *42*, 4951-4958.
5. Uday Narayan Guria, Kalipada Maiti, Syed Samim Ali, Sandip Kumar Samanta, Debasish Mandal, Ripon Sarkar, Pallab Datta, Asim Kumar Ghosh and **Ajit Kumar Mahapatra**, Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies, *New J. Chem.*, **2018**, *42*, 5367-5375.
6. Parthasarathi Karmakar, Srimanta Manna, Syed Samim Ali, Uday Narayan Guria, Ripon Sarkar, Pallab Datta, Debasish Mandal and **Ajit Kumar Mahapatra**, Reaction-based ratiometric fluorescent probe for selective recognition of sulfide anions with a large Stokes shift through switching on ESIPT, *New J.Chem.*, **2018**, *42*, 76-84.
7. Sanchita Mondal, Syed Samim Ali, Srimanta Manna, Kalipada Maiti, Md. Raihan Uddin, Sukhendu Mandal, Debasish Mandal and **Ajit Kumar Mahapatra**, A benzopyrylium–phenothiazine conjugate of a flavylum derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging, *New J.Chem.*, **2017**, *41*, 12581-12588.
8. Syed Samim Ali, Ankita Gangopadhyay, Kalipada Maiti, Sanchita Mondal, Ajoy Kumar Pramanik, Uday Narayan Guria, Md. Raihan Uddin, Sukhendu Mandal, Debasish Mandal and **Ajit Kumar Mahapatra**, A chromogenic and ratiometric

fluorogenic probe for rapid detection of a nerve agent simulant DCP based on a hybrid hydroxynaphthalene -hemicyanine dye, *Org. Biomol. Chem.*, **2017**, *15*, 5959-5967.

9. Syed Samim Ali, Ajoy Kumar Pramanik, Sandip Kumar Samanta, Uday Narayan Guria and **Ajit Kumar Mahapatra**, A Thienyl-Pyridine-based Hantzsch Ester Fluorescent Probe for the Selective Detection of Nitric Oxide and Its Bio-imaging Applications, *Journal of Indian Chemical Society*, **2017**, *94*, 791-800.
10. Kalipada Maiti, **Ajit Kumar Mahapatra**, Ankita Gangopadhyay, Rajkishor Maji, Sanchita Mondal, Syed Samim Ali, Sujoy Das, Ripon Sarkar, Pallab Datta, and Debasish Mandal, Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids, *ACS Omega*, **2017**, *2*, 1583–1593.
11. Srimanta Manna, Parthasarathi Karmakar, Kalipada Maiti, Syed Samim Ali, Debasish Mandal, **Ajit Kumar Mahapatra**, A reactive primary fluorescence switch-on sensor for Hg²⁺ and the generated fluorophore as secondary recognition receptor toward Cu²⁺ in aqueous acetonitrile solution, *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, *343*, 7–16.
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13. **Ajit Kumar Mahapatra**, Rajkishor Maji, Kalipada Maiti, Sanchita Mondal, Syed Samim Ali, Saikat Kumar Manna & Prithidipa Sahoo, Carbazole-driven ratiometric fluorescence turn on for dual ion recognition of Zn and Hg by thiophene-pyridyl conjugate in HEPES buffer medium: spectroscopy, computational, microscopy and cellular studies, *Supramolecular Chemistry*, **2017**, *29*, 215-228.
14. **Ajit Kumar Mahapatra**, Parthasarathi Karmakar, Srimanta Manna, Kalipada Maiti, Debasish Mandal, Benzthiazole-derived chromogenic, fluorogenic and ratiometric probes for detection of hydrazine in environmental samples and living cells, *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, *334*, 1–12.
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