Ajit Kumar Mahapatra

List of Publications by Citations

46 papers	975 citations	18 h-index	30 g-index
48 ext. papers	1,120 ext. citations	3.7 avg, IF	4.46 L-index

#	Paper	IF	Citations
46	A highly selective triphenylamine-based indolylmethane derivatives as colorimetric and turn-off fluorimetric sensor toward Cu2+ detection by deprotonation of secondary amines. *Sensors and Actuators B: Chemical*, **2011**, 156, 456-462	8.5	105
45	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. *Talanta*, **2011**, 85, 2673-80	6.2	66
44	Highly sensitive and selective rhodamine-based "off-on" reversible chemosensor for tin (Sn4+) and imaging in living cells. *Inorganic Chemistry*, **2013**, 52, 10825-34	5.1	62
43	Ratiometric sensing of fluoride and acetate anions based on a BODIPY-azaindole platform and its application to living cell imaging. *Analyst, The*, **2014**, 139, 309-17	5	59
42	A new selective chromogenic and turn-on fluorogenic probe for copper(II) in solution and vero cells: recognition of sulphide by [CuL]. *Dalton Transactions*, **2015**, 44, 6490-501	4.3	56
41	A cyclization-induced emission enhancement (CIEE)-based ratiometric fluorogenic and chromogenic probe for the facile detection of a nerve agent simulant DCP. *Chemical Communications*, **2015**, 51, 9729-32	5.8	46
40	Ratiometric fluorescent and chromogenic chemodosimeter for cyanide detection in water and its application in bioimaging. *RSC Advances*, **2015**, 5, 24274-24280	3.7	39
39	A highly sensitive fluorescent probe for detection of hydrazine in gas and solution phases based on the Gabriel mechanism and its bioimaging. *RSC Advances*, **2016**, 6, 70855-70862	3.7	39
38	A BODIPY/pyrene-based chemodosimetric fluorescent chemosensor for selective sensing of hydrazine in the gas and aqueous solution state and its imaging in living cells. *RSC Advances*, **2015**, 5, 58228-58236	3.7	35
37	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	4.7	33
36	Colorimetric and ratiometric fluorescent chemodosimeter for selective sensing of fluoride and cyanide ions: tuning selectivity in proton transfer and C–Si bond cleavage. *RSC Advances*, **2015**, 5, 10716-10722	3.7	32
35	An azodye-rhodamine-based fluorescent and colorimetric probe specific for the detection of Pd(2+) in aqueous ethanolic solution: synthesis, XRD characterization, computational studies and imaging in live cells. *Analyst, The*, **2015**, 140, 1229-36	5	30
34	Aminomethylpyrene-based imino-phenols as primary fluorescence switch-on sensors for Al3+ in solution and in Vero cells and their complexes as secondary recognition ensembles toward pyrophosphate. *RSC Advances*, **2015**, 5, 81203-81211	3.7	26
33	Unique fluorogenic ratiometric fluorescent chemodosimeter for rapid sensing of CN(-) in water. *Chemistry - an Asian Journal*, **2014**, 9, 3623-32	4.5	26
32	Recent Developments in Fluorometric and Colorimetric Chemodosimeters Targeted towards Hydrazine Sensing: Present Success and Future Possibilities. *ChemistrySelect*, **2019**, 4, 7219-7245	1.8	25
31	A chromogenic and ratiometric fluorogenic probe for rapid detection of a nerve agent simulant DCP based on a hybrid hydroxynaphthalene-hemicyanine dye. *Organic and Biomolecular Chemistry*, **2017**, 15, 5959-5967	3.9	19
30	Imino-phenolic-azodye appended rhodamine as a primary fluorescence off-on chemosensor for tin (Sn4+) in solution and in RAW cells and the recognition of sulphide by [AR-Sn]. *RSC Advances*, **2014**, 4, 36615-36622	3.7	19

29	Recent development of chromogenic and fluorogenic chemosensors for the detection of arsenic species: Environmental and biological applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 246, 119047	4.4	18
28	A highly selective ICT-based fluorescent probe for cysteine sensing and its application in living cell imaging. *Analytical Methods*, **2019**, 11, 1199-1207	3.2	17
27	Real time detection of the nerve agent simulant diethylchlorophosphate by nonfluorophoric small molecules generating a cyclization-induced fluorogenic response. *Analyst, The*, **2018**, 143, 4171-4179	5	17
26	A solvent directed D-π-A fluorescent chemodosimeter for selective detection of hazardous hydrazine in real water sample and living cell. *Dyes and Pigments*, **2020**, 173, 107997	4.6	17
25	Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies. *New Journal of Chemistry*, **2018**, 42, 5367-5375	3.6	14
24	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn4+) and its application in imaging live cells. *RSC Advances*, **2014**, 4, 56605-56614	3.7	14
23	A Michael addition–cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging. *New Journal of Chemistry*, **2018**, 42, 4951-4958	3.6	13
22	Highly Selective Ratiometric Fluorescent Probes for Detection of Perborate Based on Excited-State Intramolecular Proton Transfer (ESIPT) in Environmental Samples and Living Cells. *ChemistrySelect*, **2016**, 1, 375-383	1.8	13
21	A benzopyrylium–phenothiazine conjugate of a flavylium derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging. *New Journal of Chemistry*, **2017**, 41, 12581-12588	3.6	13
20	Reaction-based ratiometric fluorescent probe for selective recognition of sulfide anions with a large Stokes shift through switching on ESIPT. *New Journal of Chemistry*, **2018**, 42, 76-84	3.6	13
19	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. *Dyes and Pigments*, **2019**, 170, 107585	4.6	12
18	Phosgene invites selective switch-on fluorescence at ppm concentrations in a Betti base by hindering 2-way PET. *New Journal of Chemistry*, **2019**, 43, 11743-11748	3.6	12
17	A potent colorimetric and fluorogenic phosgene probe based on dual photophysical processes: PET attenuation and ICT reversal. *New Journal of Chemistry*, **2019**, 43, 14991-14996	3.6	11
16	A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emissions from plywood. *Analytical Methods*, **2018**, 10, 2888-2894	3.2	11
15	A ratiometric hypochlorite sensor guided by PET controlled ESIPT output with real time application in commercial bleach. *New Journal of Chemistry*, **2018**, 42, 15990-15996	3.6	11
14	Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu2+ via FRET strategy: synthesis, computational studies and in vitro applications. *Supramolecular Chemistry*, **2017**, 29, 616-626	1.8	8
13	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. *RSC Advances*, **2016**, 6, 113219-113227	3.7	8
12	A benzothiazole-conjugated hemicyanine dye as a ratiometric NIR fluorescent probe for the detection and imaging of peroxynitrite in living cells. *Analytical Methods*, **2019**, 11, 5447-5454	3.2	8

11	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. *Supramolecular Chemistry*, **2016**, 28, 693-706	1.8	7
10	Carbazole-driven ratiometric fluorescence turn on for dual ion recognition of Zn2+ and Hg2+ by thiophene-pyridyl conjugate in HEPES buffer medium: spectroscopy, computational, microscopy and cellular studies. *Supramolecular Chemistry*, **2017**, 29, 215-228	1.8	6
9	A highly selective ratiometric fluorescent probe for H2S based on new heterocyclic ring formation and detection in live cells. *Supramolecular Chemistry*, **2019**, 31, 349-360	1.8	3
8	A Fluorophore-Free Chemodosimeter for H2S with Luminescence Turn‐On Response: Hyrdogen Sulphide Sensing in Garlic Extract. *ChemistrySelect*, **2016**, 1, 5066-5073	1.8	3
7	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ions and its application in human lung cancer cells. *Analytical Methods*, **2021**, 13, 3922-3929	3.2	3
6	Fluorescent chemosensor for lethal cesium detection using thin film membrane. *Separation Science and Technology*, **2019**, 54, 1687-1696	2.5	2
5	Triphenylamine-based small-molecule fluorescent probes.. *Analytical Methods*, **2022**,	3.2	2
4	Name reactions: strategies in the design of chemodosimeters for analyte detection. *New Journal of Chemistry*,	3.6	1
3	A xanthene-based novel colorimetric and fluorometric chemosensor for the detection of hydrazine and its application in the bio-imaging of live cells. *New Journal of Chemistry*, **2021**, 45, 15869-15875	3.6	0
2	A one-pot fluorogenic cascade cyclization reaction BF-sensing. *Analyst, The*, **2021**, 146, 2998-3003	5	0
1	Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications.. *Critical Reviews in Analytical Chemistry*, **2022**, 1-61	5.2	