

Ajit Kumar Mahapatra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Triphenylamine-based small-molecule fluorescent probes.. <i>Analytical Methods</i> , 2022 ,	3.2	2
45	Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications.. <i>Critical Reviews in Analytical Chemistry</i> , 2022 , 1-61	5.2	
44	Recent development of chromogenic and fluorogenic chemosensors for the detection of arsenic species: Environmental and biological applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 246, 119047	4.4	18
43	A xanthene-based novel colorimetric and fluorometric chemosensor for the detection of hydrazine and its application in the bio-imaging of live cells. <i>New Journal of Chemistry</i> , 2021 , 45, 15869-15875	3.6	0
42	A one-pot fluorogenic cascade cyclization reaction BF-sensing. <i>Analyt, The</i> , 2021 , 146, 2998-3003	5	0
41	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ions and its application in human lung cancer cells. <i>Analytical Methods</i> , 2021 , 13, 3922-3929	3.2	3
40	A solvent directed D- π A fluorescent chemodosimeter for selective detection of hazardous hydrazine in real water sample and living cell. <i>Dyes and Pigments</i> , 2020 , 173, 107997	4.6	17
39	A potent colorimetric and fluorogenic phosgene probe based on dual photophysical processes: PET attenuation and ICT reversal. <i>New Journal of Chemistry</i> , 2019 , 43, 14991-14996	3.6	11
38	A highly selective ICT-based fluorescent probe for cysteine sensing and its application in living cell imaging. <i>Analytical Methods</i> , 2019 , 11, 1199-1207	3.2	17
37	Recent Developments in Fluorometric and Colorimetric Chemodosimeters Targeted towards Hydrazine Sensing: Present Success and Future Possibilities. <i>ChemistrySelect</i> , 2019 , 4, 7219-7245	1.8	25
36	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. <i>Dyes and Pigments</i> , 2019 , 170, 107585	4.6	12
35	A highly selective ratiometric fluorescent probe for H ₂ S based on new heterocyclic ring formation and detection in live cells. <i>Supramolecular Chemistry</i> , 2019 , 31, 349-360	1.8	3
34	Fluorescent chemosensor for lethal cesium detection using thin film membrane. <i>Separation Science and Technology</i> , 2019 , 54, 1687-1696	2.5	2
33	Phosgene invites selective switch-on fluorescence at ppm concentrations in a Betti base by hindering 2-way PET. <i>New Journal of Chemistry</i> , 2019 , 43, 11743-11748	3.6	12
32	A benzothiazole-conjugated hemicyanine dye as a ratiometric NIR fluorescent probe for the detection and imaging of peroxyxynitrite in living cells. <i>Analytical Methods</i> , 2019 , 11, 5447-5454	3.2	8
31	Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies. <i>New Journal of Chemistry</i> , 2018 , 42, 5367-5375	3.6	14
30	A Michael addition-cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging. <i>New Journal of Chemistry</i> , 2018 , 42, 4951-4958	3.6	13

29	Real time detection of the nerve agent simulant diethylchlorophosphate by nonfluorophoric small molecules generating a cyclization-induced fluorogenic response. <i>Analyst, The</i> , 2018 , 143, 4171-4179	5	17
28	A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emissions from plywood. <i>Analytical Methods</i> , 2018 , 10, 2888-2894	3.2	11
27	Reaction-based ratiometric fluorescent probe for selective recognition of sulfide anions with a large Stokes shift through switching on ESIPT. <i>New Journal of Chemistry</i> , 2018 , 42, 76-84	3.6	13
26	A ratiometric hypochlorite sensor guided by PET controlled ESIPT output with real time application in commercial bleach. <i>New Journal of Chemistry</i> , 2018 , 42, 15990-15996	3.6	11
25	A chromogenic and ratiometric fluorogenic probe for rapid detection of a nerve agent simulant DCP based on a hybrid hydroxynaphthalene-hemicyanine dye. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 5959-5967	3.9	19
24	Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu ²⁺ via FRET strategy: synthesis, computational studies and in vitro applications. <i>Supramolecular Chemistry</i> , 2017 , 29, 616-626	1.8	8
23	A benzopyrylium-phenothiazine conjugate of a flavylum derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging. <i>New Journal of Chemistry</i> , 2017 , 41, 12581-12588	3.6	13
22	Benzthiazole-derived chromogenic, fluorogenic and ratiometric probes for detection of hydrazine in environmental samples and living cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 334, 1-12	4.7	33
21	Carbazole-driven ratiometric fluorescence turn on for dual ion recognition of Zn ²⁺ and Hg ²⁺ by thiophene-pyridyl conjugate in HEPES buffer medium: spectroscopy, computational, microscopy and cellular studies. <i>Supramolecular Chemistry</i> , 2017 , 29, 215-228	1.8	6
20	A highly sensitive fluorescent probe for detection of hydrazine in gas and solution phases based on the Gabriel mechanism and its bioimaging. <i>RSC Advances</i> , 2016 , 6, 70855-70862	3.7	39
19	Highly Selective Ratiometric Fluorescent Probes for Detection of Perborate Based on Excited-State Intramolecular Proton Transfer (ESIPT) in Environmental Samples and Living Cells. <i>ChemistrySelect</i> , 2016 , 1, 375-383	1.8	13
18	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. <i>Supramolecular Chemistry</i> , 2016 , 28, 693-706	1.8	7
17	A Fluorophore-Free Chemodosimeter for H ₂ S with Luminescence Turn-On Response: Hydrogen Sulphide Sensing in Garlic Extract. <i>ChemistrySelect</i> , 2016 , 1, 5066-5073	1.8	3
16	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. <i>RSC Advances</i> , 2016 , 6, 113219-113227	3.7	8
15	Ratiometric fluorescent and chromogenic chemodosimeter for cyanide detection in water and its application in bioimaging. <i>RSC Advances</i> , 2015 , 5, 24274-24280	3.7	39
14	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. <i>RSC Advances</i> , 2015 , 5, 58228-58236	3.7	35
13	A cyclization-induced emission enhancement (CIEE)-based ratiometric fluorogenic and chromogenic probe for the facile detection of a nerve agent simulant DCP. <i>Chemical Communications</i> , 2015 , 51, 9729-32	5.8	46
12	Aminomethylpyrene-based imino-phenols as primary fluorescence switch-on sensors for Al ³⁺ in solution and in Vero cells and their complexes as secondary recognition ensembles toward pyrophosphate. <i>RSC Advances</i> , 2015 , 5, 81203-81211	3.7	26

11	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. <i>Analyst, The</i> , 2015 , 140, 1229-36	5	30
10	A new selective chromogenic and turn-on fluorogenic probe for copper(II) in solution and vero cells: recognition of sulphide by [CuL]. <i>Dalton Transactions</i> , 2015 , 44, 6490-501	4-3	56
9	Colorimetric and ratiometric fluorescent chemodosimeter for selective sensing of fluoride and cyanide ions: tuning selectivity in proton transfer and C=N bond cleavage. <i>RSC Advances</i> , 2015 , 5, 10716-10722	3-7	32
8	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn4+) and its application in imaging live cells. <i>RSC Advances</i> , 2014 , 4, 56605-56614	3-7	14
7	Unique fluorogenic ratiometric fluorescent chemodosimeter for rapid sensing of CN(-) in water. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3623-32	4-5	26
6	Imino-phenolic-azodye appended rhodamine as a primary fluorescence based chemosensor for tin (Sn4+) in solution and in RAW cells and the recognition of sulphide by [ARSn]. <i>RSC Advances</i> , 2014 , 4, 36615-36622	3-7	19
5	Ratiometric sensing of fluoride and acetate anions based on a BODIPY-azaindole platform and its application to living cell imaging. <i>Analyst, The</i> , 2014 , 139, 309-17	5	59
4	Highly sensitive and selective rhodamine-based "off-on" reversible chemosensor for tin (Sn4+) and imaging in living cells. <i>Inorganic Chemistry</i> , 2013 , 52, 10825-34	5-1	62
3	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. <i>Talanta</i> , 2011 , 85, 2673-80	6.2	66
2	A highly selective triphenylamine-based indolylmethane derivatives as colorimetric and turn-off fluorimetric sensor toward Cu2+ detection by deprotonation of secondary amines. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 456-462	8.5	105
1	Name reactions: strategies in the design of chemodosimeters for analyte detection. <i>New Journal of Chemistry</i> ,	3.6	1