

Ajit Kumar Mahapatra

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,315
citations

304602

22
h-index

360920

35
g-index

48
all docs

48
docs citations

48
times ranked

1370
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly selective triphenylamine-based indolylmethane derivatives as colorimetric and turn-off fluorimetric sensor toward Cu ²⁺ detection by deprotonation of secondary amines. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 456-462.	4.0	119
2	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. <i>Talanta</i> , 2011, 85, 2673-2680.	2.9	73
3	Highly Sensitive and Selective Rhodamine-Based "On-Off" Reversible Chemosensor for Tin (Sn ⁴⁺) and Imaging in Living Cells. <i>Inorganic Chemistry</i> , 2013, 52, 10825-10834.	1.9	68
4	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, 309-317.	1.7	68
5	A new selective chromogenic and turn-on fluorogenic probe for copper (Cu ²⁺) in solution and vero cells: recognition of sulphide by [CuL]. <i>Dalton Transactions</i> , 2015, 44, 6490-6501.	1.6	68
6	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, 9729-9732.	2.2	66
7	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.	1.7	47
8	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.	1.7	46
9	Recent Developments in Fluorometric and Colorimetric Chemodosimeters Targeted towards Hydrazine Sensing: Present Success and Future Possibilities. <i>ChemistrySelect</i> , 2019, 4, 7219-7245.	0.7	46
10	Ratiometric fluorescent and chromogenic chemodosimeter for cyanide detection in water and its application in bioimaging. <i>RSC Advances</i> , 2015, 5, 24274-24280.	1.7	44
11	Colorimetric and ratiometric fluorescent chemodosimeter for selective sensing of fluoride and cyanide ions: tuning selectivity in proton transfer and C-Si bond cleavage. <i>RSC Advances</i> , 2015, 5, 10716-10722.	1.7	39
12	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, 1229-1236.	1.7	36
13	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.	2.0	36
14	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.	1.5	34
15	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. <i>Dyes and Pigments</i> , 2019, 170, 107585.	2.0	32
16	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.	2.0	32
17	A solvent directed D-A fluorescent chemodosimeter for selective detection of hazardous hydrazine in real water sample and living cell. <i>Dyes and Pigments</i> , 2020, 173, 107997.	2.0	30
18	Unique Fluorogenic Ratiometric Fluorescent Chemodosimeter for Rapid Sensing of CN ^{âˆ’} in Water. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3623-3632.	1.7	29

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19	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. RSC Advances, 2015, 5, 81203-81211.	1.7	28
20	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.	1.7	27
21	A highly selective ICT-based fluorescent probe for cysteine sensing and its application in living cell imaging. Analytical Methods, 2019, 11, 1199-1207.	1.3	25
22	Triphenylamine-based small-molecule fluorescent probes. Analytical Methods, 2022, 14, 972-1005.	1.3	24
23	Imino-phenolic-azodye appended rhodamine as a primary fluorescence chemosensor for tin (Sn ⁴⁺) in solution and in RAW cells and the recognition of sulphide by [AR ⁺ Sn]. RSC Advances, 2014, 4, 36615-36622.	1.7	23
24	A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emissions from plywood. Analytical Methods, 2018, 10, 2888-2894.	1.3	21
25	Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies. New Journal of Chemistry, 2018, 42, 5367-5375.	1.4	19
26	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.	1.3	18
27	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn ⁴⁺) and its application in imaging live cells. RSC Advances, 2014, 4, 56605-56614.	1.7	16
28	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.	1.4	16
29	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.	1.4	16
30	A benzopyrylium-phenothiazine conjugate of a flavylum derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging. New Journal of Chemistry, 2017, 41, 12581-12588.	1.4	15
31	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.	1.4	15
32	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.	1.4	15
33	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.	0.7	13
34	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.	1.4	13
35	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ²⁺ ions and its application in human lung cancer cells. Analytical Methods, 2021, 13, 3922-3929.	1.3	12
36	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. RSC Advances, 2016, 6, 113219-113227.	1.7	11

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37	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.	1.4	11
38	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.	1.5	10
39	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. <i>Supramolecular Chemistry</i> , 2016, 28, 693-706.	1.5	8
40	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.	1.5	8
41	A benzothiazole-based dual reaction site fluorescent probe for the selective detection of hydrazine in water and live cells. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4949-4963.	1.5	8
42	A one-pot fluorogenic cascade cyclization reaction via BF ₃ -sensing. <i>Analyst</i> , The, 2021, 146, 2998-3003.	1.7	7
43	A dual-channel chemodosimetric sensor for discrimination between hypochlorite and nerve-agent mimic DCP: application on human breast cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4803-4814.	1.5	7
44	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.	1.5	6
45	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.	0.7	4
46	Fluorescent chemosensor for lethal cesium detection using thin film membrane. <i>Separation Science and Technology</i> , 2019, 54, 1687-1696.	1.3	4
47	Name reactions: strategies in the design of chemodosimeters for analyte detection. <i>New Journal of Chemistry</i> , 2021, 45, 20046-20074.	1.4	2
48	Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications. <i>Critical Reviews in Analytical Chemistry</i> , 2022, , 1-61.	1.8	0