

Saikat Kumar Manna

List of Publications by Year in descending order

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257429

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docs citations

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#	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.	7.8	119
2	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. <i>Talanta</i> , 2011, 85, 2673-2680.	5.5	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.	4.0	68
4	Ratiometric sensing of fluoride and acetate anions based on a BODIPY-azaindole platform and its application to living cell imaging. <i>Analyst</i> , The, 2014, 139, 309-317.	3.5	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.	3.3	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.	4.1	66
7	Carbazole-thiosemicarbazone-Hg(II) ensemble-based colorimetric and fluorescence turn-on toward iodide in aqueous media and its application in live cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2231.	2.8	64
8	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.	3.6	47
9	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.	3.6	46
10	Recent Developments in Fluorometric and Colorimetric Chemodosimeters Targeted towards Hydrazine Sensing: Present Success and Future Possibilities. <i>ChemistrySelect</i> , 2019, 4, 7219-7245.	1.5	46
11	Ratiometric fluorescent and chromogenic chemodosimeter for cyanide detection in water and its application in bioimaging. <i>RSC Advances</i> , 2015, 5, 24274-24280.	3.6	44
12	Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids. <i>ACS Omega</i> , 2017, 2, 1583-1593.	3.5	42
13	Pyrophosphate-selective fluorescent chemosensor based on ratiometric tripodal-Zn(II) complex: Application in logic gates and living cells. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 123-131.	7.8	40
14	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.	3.6	39
15	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</i> , The, 2015, 140, 1229-1236.	3.5	36
16	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.	3.9	36
17	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. <i>Dyes and Pigments</i> , 2019, 170, 107585.	3.7	32
18	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.	3.9	32

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19	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.	3.7	30
20	Unique Fluorogenic Ratiometric Fluorescent Chemodosimeter for Rapid Sensing of CN ^ˆ in Water. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3623-3632.	3.3	29
21	Terpyridine derivatives as π-π* fluorescence chemosensors for the selective and sensitive detection of Zn ²⁺ ions in solution and in live cells. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1068-1074.	2.9	29
22	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.	3.6	28
23	Colorimetric and ratiometric fluorescent chemosensor for fluoride ions based on phenanthroimidazole (PI): spectroscopic, NMR and density functional studies. <i>RSC Advances</i> , 2015, 5, 37935-37942.	3.6	27
24	Chromogenic and fluorogenic π-π* chemosensor for selective and sensitive detection of aluminum (Al ³⁺) and bifluoride (HF ₂ ^ˆ) ions in solution and in living Hep G2 cells: synthesis, experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2020, 44, 13259-13265.	2.8	26
25	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.	2.7	25
26	A π-π* fluorescent and colorimetric chemodosimeter for selective detection of Au ³⁺ ions in solution and in live cells via Au ³⁺ -induced hydrolysis of a rhodamine-derived Schiff base. <i>New Journal of Chemistry</i> , 2020, 44, 7954-7961.	2.8	25
27	Recent advances in selective formaldehyde detection in biological and environmental samples by fluorometric and colorimetric chemodosimeters. <i>Analytical Methods</i> , 2021, 13, 1084-1105.	2.7	25
28	Triphenylamine-based small-molecule fluorescent probes. <i>Analytical Methods</i> , 2022, 14, 972-1005.	2.7	24
29	Synthesis of indolo[3,2-b]carbazole-based new colorimetric receptor for anions: A unique color change for fluoride ions. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 12.	2.2	23
30	Imino-phenolic azodye appended rhodamine as a primary fluorescence π-π* chemosensor for tin (Sn ⁴⁺) in solution and in RAW cells and the recognition of sulphide by [AR ^ˆ Sn]. <i>RSC Advances</i> , 2014, 4, 36615-36622.	3.6	23
31	Fluorescence sensing and intracellular imaging of Pd ²⁺ ions by a novel coumarinyl-rhodamine Schiff base. <i>New Journal of Chemistry</i> , 2019, 43, 3899-3906.	2.8	22
32	A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emissions from plywood. <i>Analytical Methods</i> , 2018, 10, 2888-2894.	2.7	21
33	Fluorescence sensing of caffeine in aqueous solution with carbazole-based probe and imaging application in live cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5379-5383.	2.2	20
34	First rhodamine-based π-π* chemosensor with high selectivity and sensitivity for Zr ⁴⁺ and its imaging in living cell. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 350-355.	7.8	20
35	Rhodamine-Appended Benzophenone Probe for Trace Quantity Detection of Pd ²⁺ in Living Cells. <i>ACS Omega</i> , 2019, 4, 18987-18995.	3.5	20
36	An efficient synthesis of pyrrole and fluorescent isoquinoline derivatives using NaN ₃ /NH ₄ Cl promoted intramolecular aza-annulation. <i>Tetrahedron Letters</i> , 2016, 57, 3722-3726.	1.4	19

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37	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.	2.8	19
38	A Powerful Turn-On Fluorescent Probe for Phosgene: A Primary Amide Strategically Attached to an Anthracene Fluorophore. <i>ChemistrySelect</i> , 2019, 4, 8968-8972.	1.5	18
39	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.	2.7	18
40	Hg ²⁺ -selective turn-on fluorescent chemodosimeter derived from glycine and living cell imaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 240, 26-32.	3.9	17
41	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn ⁴⁺) and its application in imaging live cells. <i>RSC Advances</i> , 2014, 4, 56605-56614.	3.6	16
42	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.	2.8	16
43	A colorimetric and off-on fluorescent Pd ²⁺ chemosensor based on a rhodamine-ampyrone conjugate: synthesis, experimental and theoretical studies along with <i>in vitro</i> applications. <i>New Journal of Chemistry</i> , 2019, 43, 3513-3519.	2.8	16
44	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.	2.8	15
45	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.	2.8	15
46	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.	2.8	15
47	First artificial acidic fluorescent receptors for caffeine and other xanthine alkaloids. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010, 67, 99-108.	1.6	13
48	Synthesis and anion sensing properties of novel N,O-chelated perimidine-BF complex. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 878-886.	7.8	13
49	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.	1.5	13
50	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ²⁺ ions and its application in human lung cancer cells. <i>Analytical Methods</i> , 2021, 13, 3922-3929.	2.7	12
51	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. <i>RSC Advances</i> , 2016, 6, 113219-113227.	3.6	11
52	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.	2.8	11
53	Recent advances in tin ion detection using fluorometric and colorimetric chemosensors. <i>New Journal of Chemistry</i> , 2022, 46, 7309-7328.	2.8	11
54	Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu ²⁺ via FRET strategy: synthesis, computational studies and <i>in vitro</i> applications. <i>Supramolecular Chemistry</i> , 2017, 29, 616-626.	1.2	10

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55	An aggregation-induced emission (AIE)-active fluorescent chemodosimeter for selective sensing of hypochlorite in water and solid state: Endogenous detection of hypochlorite in live cells. <i>Dyes and Pigments</i> , 2021, 196, 109758.	3.7	10
56	First theophylline-based ratiometric fluorescent synthetic receptor for selective recognition of dihydrogenphosphate and biological phosphate ions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1358-1364.	2.2	9
57	Single Amino Acid Based Self-Assembled Biomaterials with Potent Antimicrobial Activity. <i>Chemistry - A European Journal</i> , 2021, 27, 16744-16753.	3.3	9
58	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. <i>Supramolecular Chemistry</i> , 2016, 28, 693-706.	1.2	8
59	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.	1.2	8
60	Supramolecular assemblies of a 1,8-naphthalimide conjugate and its aggregation-induced emission property. <i>Materials Advances</i> , 2020, 1, 3532-3538.	5.4	8
61	Supramolecular Antiparallel β -Sheet Formation by Tetrapeptides Based on Amyloid Sequence. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4274-4285.	2.6	8
62	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.	2.8	8
63	Installation of efficient quenching groups of a fluorescent probe for the specific detection of cysteine and homocysteine over glutathione in solution and imaging of living cells. <i>Supramolecular Chemistry</i> , 2017, 29, 59-68.	1.2	7
64	A one-pot fluorogenic cascade cyclization reaction <i>via</i> BF ₃ -sensing. <i>Analyst</i> , The, 2021, 146, 2998-3003.	3.5	7
65	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.	1.2	6
66	A Perylene diimide based fluorescent probe for caffeine in aqueous medium. <i>Supramolecular Chemistry</i> , 2019, 31, 28-35.	1.2	5
67	Picoline based fluorescence "turn-on" chemosensor for zinc(II) ion recognition, cell imaging and cytotoxicity study: Synthesis, crystal structure, spectroscopy and DFT. <i>Polyhedron</i> , 2020, 192, 114815.	2.2	5
68	An Organic Nanofibrous Polymeric Composite for Ratiometric Detection of Diethyl Chlorophosphate (DCP) in Solution and Vapor. <i>ChemistrySelect</i> , 2020, 5, 3770-3777.	1.5	5
69	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.	1.5	4
70	Synthesis, structure and catalytic promiscuity of a naphthyl-pyrazole Mn(II) complex and structure-activity relationships. <i>Journal of Coordination Chemistry</i> , 2019, 72, 2636-2653.	2.2	4
71	Fluorescent chemosensor for lethal cesium detection using thin film membrane. <i>Separation Science and Technology</i> , 2019, 54, 1687-1696.	2.5	4
72	Nucleophilic rhodanine, thiazolidine-2,4-dione and thiazol-4(5H)-one substrates in asymmetric reactions. <i>Arkivoc</i> , 2020, 2019, 256-292.	0.5	4

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73	Evaluation of the anticancer activities with various ligand substituents in Co(ii/iii)-picolyl phenolate derivatives: synthesis, characterization, DFT, DNA cleavage, and molecular docking studies. Dalton Transactions, 2022, 51, 2346-2363.	3.3	3
74	Name reactions: strategies in the design of chemodosimeters for analyte detection. New Journal of Chemistry, 2021, 45, 20046-20074.	2.8	2
75	Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications.. Critical Reviews in Analytical Chemistry, 2022, , 1-61.	3.5	0