

# Saikat Kumar Manna

## 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.

73  
papers

1,309  
citations

20  
h-index

33  
g-index

75  
ext. papers

1,524  
ext. citations

3.7  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
73	Triphenylamine-based small-molecule fluorescent probes.. <i>Analytical Methods</i> , <b>2022</b> ,	3.2	2
72	Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications.. <i>Critical Reviews in Analytical Chemistry</i> , <b>2022</b> , 1-61	5.2	
71	Supramolecular Antiparallel $\beta$ -Sheet Formation by Tetrapeptides Based on Amyloid Sequence. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4274-4285	3.4	2
70	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> , <b>2021</b> , 246, 119047	4.4	18
69	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> , <b>2021</b> , 45, 15869-15875	3.6	0
68	A one-pot fluorogenic cascade cyclization reaction BF-sensing. <i>Analyst, The</i> , <b>2021</b> , 146, 2998-3003	5	0
67	Single Amino-Acid Based Self-Assembled Biomaterials with Potent Antimicrobial Activity. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 16744-16753	4.8	1
66	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> , <b>2021</b> , 196, 109758	4.6	3
65	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> , <b>2021</b> , 13, 3922-3929	3.2	3
64	Recent advances in selective formaldehyde detection in biological and environmental samples by fluorometric and colorimetric chemodosimeters. <i>Analytical Methods</i> , <b>2021</b> , 13, 1084-1105	3.2	10
63	Chromogenic and fluorogenic $\beta$ -sheet-chemosensor for selective and sensitive detection of aluminum (Al <sup>3+</sup> ) and bifluoride (HF <sub>2</sub> <sup>-</sup> ) ions in solution and in living Hep G2 cells: synthesis, experimental and theoretical studies. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 13259-13265	3.6	15
62	Picoline based fluorescence $\beta$ -turn-on-chemosensor for zinc(II) ion recognition, cell imaging and cytotoxicity study: Synthesis, crystal structure, spectroscopy and DFT. <i>Polyhedron</i> , <b>2020</b> , 192, 114815	2.7	1
61	Supramolecular assemblies of a 1,8-naphthalimide conjugate and its aggregation-induced emission property. <i>Materials Advances</i> , <b>2020</b> , 1, 3532-3538	3.3	2
60	Nucleophilic rhodanine, thiazolidine-2,4-dione and thiazol-4(5H)-one substrates in asymmetric reactions. <i>Arkivoc</i> , <b>2020</b> , 2019, 256-292	0.9	4
59	A solvent directed D-EA fluorescent chemodosimeter for selective detection of hazardous hydrazine in real water sample and living cell. <i>Dyes and Pigments</i> , <b>2020</b> , 173, 107997	4.6	17
58	An Organic Nanofibrous Polymeric Composite for Ratiometric Detection of Diethyl Chlorophosphate (DCP) in Solution and Vapor. <i>ChemistrySelect</i> , <b>2020</b> , 5, 3770-3777	1.8	3
57	A $\beta$ -turn-on-fluorescent and colorimetric chemodosimeter for selective detection of Au <sup>3+</sup> ions in solution and in live cells via Au <sup>3+</sup> -induced hydrolysis of a rhodamine-derived Schiff base. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 7954-7961	3.6	13

56	Synthesis, structure and catalytic promiscuity of a naphthyl-pyrazole Mn(II) complex and structure-activity relationships. <i>Journal of Coordination Chemistry</i> , <b>2019</b> , 72, 2636-2653	1.6	3
55	A highly selective ICT-based fluorescent probe for cysteine sensing and its application in living cell imaging. <i>Analytical Methods</i> , <b>2019</b> , 11, 1199-1207	3.2	17
54	Fluorescence sensing and intracellular imaging of Pd <sup>2+</sup> ions by a novel coumarinyl-rhodamine Schiff base. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 3899-3906	3.6	12
53	A colorimetric and fluorescent Pd <sup>2+</sup> chemosensor based on a rhodamine-ampyrone conjugate: synthesis, experimental and theoretical studies along with in vitro applications. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 3513-3519	3.6	10
52	Recent Developments in Fluorometric and Colorimetric Chemodosimeters Targeted towards Hydrazine Sensing: Present Success and Future Possibilities. <i>ChemistrySelect</i> , <b>2019</b> , 4, 7219-7245	1.8	25
51	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. <i>Dyes and Pigments</i> , <b>2019</b> , 170, 107585	4.6	12
50	A highly selective ratiometric fluorescent probe for H <sub>2</sub> S based on new heterocyclic ring formation and detection in live cells. <i>Supramolecular Chemistry</i> , <b>2019</b> , 31, 349-360	1.8	3
49	Fluorescent chemosensor for lethal cesium detection using thin film membrane. <i>Separation Science and Technology</i> , <b>2019</b> , 54, 1687-1696	2.5	2
48	A Powerful Turn-On Fluorescent Probe for Phosgene: A Primary Amide Strategically Attached to an Anthracene Fluorophore. <i>ChemistrySelect</i> , <b>2019</b> , 4, 8968-8972	1.8	8
47	Rhodamine-Appended Benzophenone Probe for Trace Quantity Detection of Pd in Living Cells. <i>ACS Omega</i> , <b>2019</b> , 4, 18987-18995	3.9	9
46	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> , <b>2019</b> , 11, 5447-5454	3.2	8
45	A Perylene diimide based fluorescent probe for caffeine in aqueous medium. <i>Supramolecular Chemistry</i> , <b>2019</b> , 31, 28-35	1.8	3
44	Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 5367-5375	3.6	14
43	A Michael addition-cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 4951-4958	3.6	13
42	A PET based fluorescent chemosensor with real time application in monitoring formaldehyde emissions from plywood. <i>Analytical Methods</i> , <b>2018</b> , 10, 2888-2894	3.2	11
41	Terpyridine derivatives as "turn-on" fluorescence chemosensors for the selective and sensitive detection of Zn ions in solution and in live cells. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 1068-1074	4.2	22
40	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> , <b>2018</b> , 42, 76-84	3.6	13
39	A ratiometric hypochlorite sensor guided by PET controlled ESIPT output with real time application in commercial bleach. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15990-15996	3.6	11

38	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> , <b>2017</b> , 29, 59-68	1.8	6
37	Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids. <i>ACS Omega</i> , <b>2017</b> , 2, 1583-1593	3.9	29
36	Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu <sup>2+</sup> via FRET strategy: synthesis, computational studies and in vitro applications. <i>Supramolecular Chemistry</i> , <b>2017</b> , 29, 616-626	1.8	8
35	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> , <b>2017</b> , 41, 12581-12588	3.6	13
34	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> , <b>2017</b> , 334, 1-12	4.7	33
33	Carbazole-driven ratiometric fluorescence turn on for dual ion recognition of Zn <sup>2+</sup> and Hg <sup>2+</sup> by thiophene-pyridyl conjugate in HEPES buffer medium: spectroscopy, computational, microscopy and cellular studies. <i>Supramolecular Chemistry</i> , <b>2017</b> , 29, 215-228	1.8	6
32	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> , <b>2016</b> , 6, 70855-70862	3.7	39
31	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> , <b>2016</b> , 1, 375-383	1.8	13
30	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. <i>Supramolecular Chemistry</i> , <b>2016</b> , 28, 693-706	1.8	7
29	An efficient synthesis of pyrrole and fluorescent isoquinoline derivatives using NaN <sub>3</sub> /NH <sub>4</sub> Cl promoted intramolecular aza-annulation. <i>Tetrahedron Letters</i> , <b>2016</b> , 57, 3722-3726	2	12
28	A Fluorophore-Free Chemodosimeter for H <sub>2</sub> S with Luminescence Turn-On Response: Hydrogen Sulphide Sensing in Garlic Extract. <i>ChemistrySelect</i> , <b>2016</b> , 1, 5066-5073	1.8	3
27	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. <i>RSC Advances</i> , <b>2016</b> , 6, 113219-113227	3.7	8
26	Ratiometric fluorescent and chromogenic chemodosimeter for cyanide detection in water and its application in bioimaging. <i>RSC Advances</i> , <b>2015</b> , 5, 24274-24280	3.7	39
25	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> , <b>2015</b> , 5, 58228-58236	3.7	35
24	Colorimetric and ratiometric fluorescent chemosensor for fluoride ions based on phenanthroimidazole (PI): spectroscopic, NMR and density functional studies. <i>RSC Advances</i> , <b>2015</b> , 5, 37935-37942	3.7	26
23	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> , <b>2015</b> , 51, 9729-32 <sup>5,8</sup>	5.8	46
22	Aminomethylpyrene-based imino-phenols as primary fluorescence switch-on sensors for Al <sup>3+</sup> in solution and in Vero cells and their complexes as secondary recognition ensembles toward pyrophosphate. <i>RSC Advances</i> , <b>2015</b> , 5, 81203-81211	3.7	26
21	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> , <b>2015</b> , 140, 1229-36	5	30

20	Synthesis and anion sensing properties of novel N,O-chelated perimidineBF complex. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 878-886	8.5	11
19	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> , <b>2015</b> , 44, 6490-501	4.3	56
18	Colorimetric and ratiometric fluorescent chemodosimeter for selective sensing of fluoride and cyanide ions: tuning selectivity in proton transfer and C-B bond cleavage. <i>RSC Advances</i> , <b>2015</b> , 5, 10716-10722	3.7	32
17	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn <sup>4+</sup> ) and its application in imaging live cells. <i>RSC Advances</i> , <b>2014</b> , 4, 56605-56614	3.7	14
16	Unique fluorogenic ratiometric fluorescent chemodosimeter for rapid sensing of CN <sup>-</sup> in water. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 3623-32	4.5	26
15	Imino-phenolic-azodye appended rhodamine as a primary fluorescence chemosensor for tin (Sn <sup>4+</sup> ) in solution and in RAW cells and the recognition of sulphide by [AR <sup>+</sup> ]. <i>RSC Advances</i> , <b>2014</b> , 4, 36615-36622	3.7	19
14	Ratiometric sensing of fluoride and acetate anions based on a BODIPY-azaindole platform and its application to living cell imaging. <i>Analyst, The</i> , <b>2014</b> , 139, 309-17	5	59
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> , <b>2014</b> , 200, 123-131	8.5	38
12	Highly sensitive and selective rhodamine-based "off-on" reversible chemosensor for tin (Sn <sup>4+</sup> ) and imaging in living cells. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10825-34	5.1	62
11	First rhodamine-based chemosensor with high selectivity and sensitivity for Zr <sup>4+</sup> and its imaging in living cell. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 183, 350-355	8.5	16
10	First theophylline-based ratiometric fluorescent synthetic receptor for selective recognition of dihydrogenphosphate and biological phosphate ions. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 1358-64	2.9	8
9	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> , <b>2012</b> , 10, 2231-6	3.9	62
8	Hg <sup>2+</sup> -selective turn-on fluorescent chemodosimeter derived from glycine and living cell imaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2012</b> , 240, 26-32	4.7	14
7	Fluorescence sensing of caffeine in aqueous solution with carbazole-based probe and imaging application in live cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 5379-83	2.9	17
6	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. <i>Talanta</i> , <b>2011</b> , 85, 2673-80	6.2	66
5	A highly selective triphenylamine-based indolylmethane derivatives as colorimetric and turn-off fluorimetric sensor toward Cu <sup>2+</sup> detection by deprotonation of secondary amines. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 156, 456-462	8.5	105
4	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> , <b>2010</b> , 6, 12	2.5	20
3	First artificial acidic fluorescent receptors for caffeine and other xanthine alkaloids. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2010</b> , 67, 99-108		13

2	Name reactions: strategies in the design of chemodosimeters for analyte detection. <i>New Journal of Chemistry</i> ,	3.6	1
1	Recent advances in tin ion detection using fluorometric and colorimetric chemosensors. <i>New Journal of Chemistry</i> ,	3.6	0