

Saikat Kumar Manna

List of Publications by Citations

Source: <https://exaly.com/author-pdf/506902/saikat-kumar-manna-publications-by-citations.pdf>
Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	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	8.5	105
72	Color response of tri-armed azo host colorimetric sensors and test kit for fluoride. <i>Talanta</i> , 2011 , 85, 2673-80	6.2	66
71	Highly sensitive and selective rhodamine-based "off-on" reversible chemosensor for tin (Sn ⁴⁺) and imaging in living cells. <i>Inorganic Chemistry</i> , 2013 , 52, 10825-34	5.1	62
70	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, 2231-6	3.9	62
69	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
68	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
67	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
66	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
65	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
64	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	8.5	38
63	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
62	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
61	Colorimetric and ratiometric fluorescent chemodosimeter for selective sensing of fluoride and cyanide ions: tuning selectivity in proton transfer and CBi bond cleavage. <i>RSC Advances</i> , 2015 , 5, 10716-10722	3.7	32
60	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
59	Simple Bisthiocarbonohydrazone as a Sensitive, Selective, Colorimetric, and Ratiometric Fluorescent Chemosensor for Picric Acids. <i>ACS Omega</i> , 2017 , 2, 1583-1593	3.9	29
58	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	3.7	26
57	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

56	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
55	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
54	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> , 2018 , 17, 1068-1074	4.2	22
53	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	2.5	20
52	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 ₃ N]. <i>RSC Advances</i> , 2014 , 4, 36615-36622	3.7	19
51	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
50	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
49	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, 5379-83	2.9	17
48	A solvent directed D-πA 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
47	First rhodamine-based 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	8.5	16
46	Chromogenic and fluorogenic chemosensor for selective and sensitive detection of aluminum (Al ³⁺) and bifluoride (HF ₂ ⁻) ions in solution and in living Hep G2 cells: synthesis, experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2020 , 44, 13259-13265	3.6	15
45	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
44	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	3.7	14
43	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	4.7	14
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	3.6	13
41	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
40	A benzopyrylium-phenothiazine conjugate of a flavylium 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
39	First artificial acidic fluorescent receptors for caffeine and other xanthine alkaloids. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010 , 67, 99-108		13

38	A Turn-on 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	3.6	13
37	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
36	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	3.6	12
35	Ratiometric sensing of nerve agent mimic DCP through in situ benzisoxazole formation. <i>Dyes and Pigments</i> , 2019 , 170, 107585	4.6	12
34	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	2	12
33	Synthesis and anion sensing properties of novel N,O-chelated perimidineBF complex. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 878-886	8.5	11
32	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
31	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
30	A colorimetric and off-on fluorescent Pd ²⁺ chemosensor based on a rhodamine-ampyrone conjugate: synthesis, experimental and theoretical studies along with in vitro applications. <i>New Journal of Chemistry</i> , 2019 , 43, 3513-3519	3.6	10
29	Recent advances in selective formaldehyde detection in biological and environmental samples by fluorometric and colorimetric chemodosimeters. <i>Analytical Methods</i> , 2021 , 13, 1084-1105	3.2	10
28	Rhodamine-Appended Benzophenone Probe for Trace Quantity Detection of Pd in Living Cells. <i>ACS Omega</i> , 2019 , 4, 18987-18995	3.9	9
27	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
26	A Powerful Turn-On Fluorescent Probe for Phosgene: A Primary Amide Strategically Attached to an Anthracene Fluorophore. <i>ChemistrySelect</i> , 2019 , 4, 8968-8972	1.8	8
25	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, 1358-64	2.9	8
24	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
23	A benzothiazole-conjugated hemicyanine dye as a ratiometric NIR fluorescent probe for the detection and imaging of peroxynitrite in living cells. <i>Analytical Methods</i> , 2019 , 11, 5447-5454	3.2	8
22	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
21	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	1.8	6

20	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
19	Nucleophilic rhodanine, thiazolidine-2,4-dione and thiazol-4(5H)-one substrates in asymmetric reactions. <i>Arkivoc</i> , 2020 , 2019, 256-292	0.9	4
18	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	1.6	3
17	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
16	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
15	A Perylene diimide based fluorescent probe for caffeine in aqueous medium. <i>Supramolecular Chemistry</i> , 2019 , 31, 28-35	1.8	3
14	An Organic Nanofibrous Polymeric Composite for Ratiometric Detection of Diethyl Chlorophosphate (DCP) in Solution and Vapor. <i>ChemistrySelect</i> , 2020 , 5, 3770-3777	1.8	3
13	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	4.6	3
12	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
11	Fluorescent chemosensor for lethal cesium detection using thin film membrane. <i>Separation Science and Technology</i> , 2019 , 54, 1687-1696	2.5	2
10	Supramolecular assemblies of a 1,8-naphthalimide conjugate and its aggregation-induced emission property. <i>Materials Advances</i> , 2020 , 1, 3532-3538	3.3	2
9	Supramolecular Antiparallel β -Sheet Formation by Tetrapeptides Based on Amyloid Sequence. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4274-4285	3.4	2
8	Triphenylamine-based small-molecule fluorescent probes.. <i>Analytical Methods</i> , 2022 ,	3.2	2
7	Name reactions: strategies in the design of chemodosimeters for analyte detection. <i>New Journal of Chemistry</i> ,	3.6	1
6	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	2.7	1
5	Single Amino-Acid Based Self-Assembled Biomaterials with Potent Antimicrobial Activity. <i>Chemistry - A European Journal</i> , 2021 , 27, 16744-16753	4.8	1
4	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
3	A one-pot fluorogenic cascade cyclization reaction BF-sensing. <i>Analyst, The</i> , 2021 , 146, 2998-3003	5	0

- 2 Recent advances in tin ion detection using fluorometric and colorimetric chemosensors. *New Journal of Chemistry*, 3.6 o
- 1 Recent Advancements in Colorimetric and Fluorescent pH Chemosensors: From Design Principles to Applications.. *Critical Reviews in Analytical Chemistry*, **2022**, 1-61 5.2