

Goutam K Patra

List of Publications by Year in descending order

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46
papers

1,326
citations

279701

23
h-index

345118

36
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47
all docs

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docs citations

47
times ranked

1116
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple benzilidihydrazone derived colorimetric and fluorescent "on-off-on"™ sensor for sequential detection of copper(II) and cyanide ions in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 701-711.	4.0	97
2	Fluorescent Schiff base sensors as a versatile tool for metal ion detection: strategies, mechanistic insights, and applications. <i>Materials Advances</i> , 2022, 3, 2612-2669.	2.6	83
3	Triazole-based novel bis Schiff base colorimetric and fluorescent turn-on dual chemosensor for Cu ²⁺ and Pb ²⁺ : application to living cell imaging and molecular logic gates. <i>RSC Advances</i> , 2019, 9, 25919-25931.	1.7	68
4	A highly selective thiosemicarbazone based Schiff base chemosensor for colorimetric detection of Cu ²⁺ and Ag ⁺ ions and turn-on fluorometric detection of Ag ⁺ ions. <i>Inorganica Chimica Acta</i> , 2020, 508, 119633.	1.2	65
5	Solvent-dependent fluorescent-colorimetric probe for dual monitoring of Al ³⁺ and Cu ²⁺ in aqueous solution: an application to bio-imaging. <i>Dalton Transactions</i> , 2016, 45, 11540-11553.	1.6	63
6	A benzohydrazide based two-in-one Ni ²⁺ /Cu ²⁺ fluorescent colorimetric chemosensor and its applications in real sample analysis and molecular logic gate. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 350-358.	4.0	60
7	A reversible fluorescent-colorimetric imino-pyridyl bis-Schiff base sensor for expeditious detection of Al ³⁺ and HSO ₃ ⁻ in aqueous media. <i>Dalton Transactions</i> , 2015, 44, 13261-13271.	1.6	57
8	Localized surface plasmon resonance of silver nanoparticles for sensitive colorimetric detection of chromium in surface water, industrial waste water and vegetable samples. <i>Analytical Methods</i> , 2016, 8, 2088-2096.	1.3	57
9	A reversible fluorescent-colorimetric chemosensor based on a novel Schiff base for visual detection of CO ₃ ²⁻ in aqueous solution. <i>RSC Advances</i> , 2016, 6, 72185-72192.	1.7	50
10	Smartphone coupled with paper-based chemical sensor for on-site determination of iron(III) in environmental and biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1573-1583.	1.9	47
11	A "chromogenic"™ and "fluorogenic"™ bis-Schiff base sensor for rapid detection of hydrazine both in solution and vapour phases. <i>Analytical Methods</i> , 2015, 7, 10385-10393.	1.3	43
12	A thio-urea based chromogenic and fluorogenic chemosensor for expeditious detection of Cu ²⁺ , Hg ²⁺ and Ag ⁺ ions in aqueous medium. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 477-488.	2.0	43
13	A dual-mode highly selective and sensitive Schiff base chemosensor for fluorescent colorimetric detection of Ni ²⁺ and colorimetric detection of Cu ²⁺ . <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1512-1525.	1.6	43
14	A new ICT based Schiff-base chemosensor for colorimetric selective detection of copper and its copper complex for both colorimetric and fluorometric detection of Cysteine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 74-82.	2.0	37
15	A guanidine based bis Schiff base chemosensor for colorimetric detection of Hg(II) and fluorescent detection of Zn(II) ions. <i>Inorganica Chimica Acta</i> , 2019, 486, 733-741.	1.2	37
16	A highly sensitive reversible fluorescent-colorimetric azino bis-Schiff base sensor for rapid detection of Pb ²⁺ in aqueous media. <i>Analytical Methods</i> , 2016, 8, 2032-2040.	1.3	36
17	A novel pyrene based highly selective reversible fluorescent-colorimetric sensor for the rapid detection of Cu ²⁺ ions: application in bio-imaging. <i>Analytical Methods</i> , 2018, 10, 1063-1073.	1.3	35
18	Highly selective hydrazone based reversible colorimetric chemosensors for expeditious detection of CN ⁻ in aqueous media. <i>Inorganica Chimica Acta</i> , 2018, 474, 22-29.	1.2	34

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19	A new Schiff base and its metal complex as colorimetric and fluorescent colorimetric sensors for rapid detection of arginine. <i>New Journal of Chemistry</i> , 2016, 40, 7821-7830.	1.4	32
20	A highly selective benzildihydrazone based Schiff base chromogenic chemosensor for rapid detection of Cu ²⁺ in aqueous solution. <i>Inorganica Chimica Acta</i> , 2017, 462, 315-322.	1.2	32
21	A fluorescent colorimetric azo dye based chemosensor for detection of S ²⁻ in perfect aqueous solution and its application in real sample analysis and building a molecular logic gate. <i>Analytical Methods</i> , 2018, 10, 2317-2326.	1.3	31
22	A novel dihydro phenylquinazolinone-based two-in-one colourimetric chemosensor for nickel(ⁱⁱ), copper(ⁱⁱ) and its copper complex for the fluorescent colourimetric nanomolar detection of the cyanide anion. <i>RSC Advances</i> , 2020, 10, 44860-44875.	1.7	30
23	A dipodal molecular probe for naked eye detection of trivalent cations (Al ³⁺) and molecular logic gates. <i>RSC Advances</i> , 2018, 8, 35946-35958.	1.7	26
24	A novel hydrazide-based selective and sensitive optical chemosensor for the detection of Ni ²⁺ ions: applications in live cell imaging, molecular logic gates and smart phone-based analysis. <i>Dalton Transactions</i> , 2019, 48, 12336-12348.	1.6	26
25	Simple salicylaldimine-functionalized dipodal bis Schiff base chromogenic and fluorogenic chemosensors for selective and sensitive detection of Al ³⁺ and Cr ³⁺ . <i>Inorganica Chimica Acta</i> , 2020, 499, 119192.	1.2	24
26	A highly selective novel multiple amide based Schiff base optical chemosensor for rapid detection of Cu ²⁺ and its applications in real sample analysis, molecular logic gate and smart phone. <i>Microchemical Journal</i> , 2020, 157, 104860.	2.3	24
27	Exploitation of a simple Schiff base as a ratiometric and colorimetric chemosensor for glutamic acid. <i>Analytical Methods</i> , 2015, 7, 8146-8151.	1.3	23
28	Combined experimental and theoretical studies on a phenyl thiadiazole-based novel turn-on fluorescent colorimetric Schiff base chemosensor for the selective and sensitive detection of Al ³⁺ . <i>New Journal of Chemistry</i> , 2020, 44, 10819-10832.	1.4	22
29	A dihydrazone based conjugated bis Schiff base chromogenic chemosensor for selectively detecting copper ion. <i>Inorganica Chimica Acta</i> , 2021, 517, 120199.	1.2	19
30	Copper(I) and silver(I) coordination assemblies of imino-pyridyl and azino-pyridyl ligands: Syntheses, crystal structures, spectroscopic and photophysical properties. <i>Inorganica Chimica Acta</i> , 2013, 404, 131-143.	1.2	17
31	A simple Schiff base as selective and sensitive fluorescent-colorimetric hydrazine chemosensor. <i>International Journal of Environmental Analytical Chemistry</i> , 2018, 98, 1160-1174.	1.8	12
32	Photoluminescent mixed ligand complexes of CuX (X=Cl, Br, I) with PPh ₃ and a polydentate imino-pyridyl ligand Syntheses, structural variations and catalytic property. <i>Journal of Molecular Structure</i> , 2015, 1097, 52-60.	1.8	8
33	A fluorescent colorimetric vanillin di-Schiff base chemosensor for detection of Cu(ⁱⁱ) and isolation of trinuclear Cu(ⁱⁱ) dihydrazone. <i>Materials Advances</i> , 2022, 3, 2495-2504.	2.6	8
34	Synthesis, crystal structure, CN ⁻ ion recognition property and computational studies of a novel hydrazinyl-dihydroimidazole Schiff base. <i>Inorganica Chimica Acta</i> , 2021, 528, 120600.	1.2	7
35	Structural diversity of silver (I) azine complexes Effect of substituents and counter anions. <i>Journal of Molecular Structure</i> , 2011, 1000, 29-34.	1.8	6
36	The maiden report of a fluorescent-colorimetric sensor for expeditious detection of bifluoride ion in aqueous media. <i>RSC Advances</i> , 2016, 6, 108717-108725.	1.7	6

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37	Synthesis, characterization, structural investigation, and antimicrobial studies of mononuclear Zn(II), Cd(II), and Ag(I) complexes of an N3O Schiff base. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3107-3120.	0.8	5
38	Ether based flexible bis Schiff base fluorescent colorimetric chemosensors for selective and sensitive detection of HF ₂ ⁻ ion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112179.	2.0	5
39	A photoluminescent interpenetrating metal-organic frame work based on Cu ₄ I ₄ and novel azino-quinoline ligand. <i>Journal of Molecular Structure</i> , 2014, 1059, 332-337.	1.8	4
40	In situ reduction of Cu(II) forming a double-stranded di-nuclear copper(I) helicate of a bis azino-pyridyl ligand. <i>Inorganica Chimica Acta</i> , 2017, 455, 235-240.	1.2	3
41	Imino-pyridyl and PPh ₃ mixed ligand complexes of Cu(I)X (X: I, Br, and Cl): Synthesis, structure, DFT and Hirshfeld surface studies. <i>European Journal of Chemistry</i> , 2020, 11, 334-341.	0.3	1
42	Halide bridged organophosphorus complexes of HgX ₂ (X: I, Br and Cl): Synthesis, structure and theoretical studies. <i>European Journal of Chemistry</i> , 2021, 12, 23-31.	0.3	0
43	Synthesis, crystal structure, and theoretical studies of a macrocyclic silver(I) complex of imino-pyridyl Schiff base ligand. <i>European Journal of Chemistry</i> , 2021, 12, 248-255.	0.3	0
44	Synthesis, characterization, X-ray crystal structure and Hirshfeld surface analysis of Ni(II) complex of 1,2-bis(pyridin-2-ylmethylene)hydrazine. <i>European Journal of Chemistry</i> , 2022, 13, 1-7.	0.3	0
45	Synthesis, crystal structure, DFT studies, and Hirshfeld surface analysis of 2,2'-(((methylene-bis(4,1-phenylene))bis(azanylylidene))bis(methanylylidene))diphenol. <i>European Journal of Chemistry</i> , 2022, 13, 49-55.	0.3	0
46	Synthesis, crystal structure, DFT studies, and Hirshfeld surface analysis of N,N'-bis(3-quinolyl-methylene)diphenylethanedione dihydrazone. <i>European Journal of Chemistry</i> , 2021, 12, 394-400.	0.3	0