

Goutam K Patra

List of Publications by Year in descending order

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46
papers

1,326
citations

279798

23
h-index

345221

36
g-index

47
all docs

47
docs citations

47
times ranked

1116
citing authors

#	ARTICLE	IF	CITATIONS
1	A fluorescent colorimetric vanillin di-Schiff base chemosensor for detection of Cu(II) and isolation of trinuclear Cu(II) dihydrazide. <i>Materials Advances</i> , 2022, 3, 2495-2504.	5.4	8
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.	5.4	83
3	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.	0.6	0
4	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.	0.6	0
5	A dihydrazone based conjugated bis Schiff base chromogenic chemosensor for selectively detecting copper ion. <i>Inorganica Chimica Acta</i> , 2021, 517, 120199.	2.4	19
6	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.	0.6	0
7	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.	0.6	0
8	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.	2.4	7
9	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.	0.6	0
10	Simple salicylaldehyde-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.	2.4	24
11	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.	3.9	5
12	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.	3.7	47
13	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.	2.8	22
14	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.	4.5	24
15	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.	2.4	65
16	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.	3.6	30
17	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.	0.6	1
18	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.	3.6	68

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19	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. Dalton Transactions, 2019, 48, 12336-12348.	3.3	26
20	A dual-mode highly selective and sensitive Schiff base chemosensor for fluorescent colorimetric detection of Ni ²⁺ and colorimetric detection of Cu ²⁺ . Photochemical and Photobiological Sciences, 2019, 18, 1512-1525.	2.9	43
21	A guanidine based bis Schiff base chemosensor for colorimetric detection of Hg(II) and fluorescent detection of Zn(II) ions. Inorganica Chimica Acta, 2019, 486, 733-741.	2.4	37
22	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. Analytical Methods, 2018, 10, 2317-2326.	2.7	31
23	Highly selective hydrazone based reversible colorimetric chemosensors for expeditious detection of CN ⁻ in aqueous media. Inorganica Chimica Acta, 2018, 474, 22-29.	2.4	34
24	A novel pyrene based highly selective reversible fluorescent-colorimetric sensor for the rapid detection of Cu ²⁺ ions: application in bio-imaging. Analytical Methods, 2018, 10, 1063-1073.	2.7	35
25	A thio-urea based chromogenic and fluorogenic chemosensor for expeditious detection of Cu ²⁺ , Hg ²⁺ and Ag ⁺ ions in aqueous medium. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 477-488.	3.9	43
26	A simple benzildihydrazone derived colorimetric and fluorescent "off-on" sensor for sequential detection of copper(II) and cyanide ions in aqueous solution. Sensors and Actuators B: Chemical, 2018, 255, 701-711.	7.8	97
27	A dipodal molecular probe for naked eye detection of trivalent cations (Al ³⁺), Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf and molecular logic gates. RSC Advances, 2018, 8, 35946-35958.	3.6	26
28	A simple Schiff base as selective and sensitive fluorescent-colorimetric hydrazine chemosensor. International Journal of Environmental Analytical Chemistry, 2018, 98, 1160-1174.	3.3	12
29	A benzohydrazide based two-in-one Ni ²⁺ /Cu ²⁺ fluorescent colorimetric chemosensor and its applications in real sample analysis and molecular logic gate. Sensors and Actuators B: Chemical, 2018, 275, 350-358.	7.8	60
30	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. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 74-82.	3.9	37
31	A highly selective benzildihydrazone based Schiff base chromogenic chemosensor for rapid detection of Cu ²⁺ in aqueous solution. Inorganica Chimica Acta, 2017, 462, 315-322.	2.4	32
32	In situ reduction of Cu(II) forming a double-stranded di-nuclear copper(I) helicate of a bis azino-pyridyl ligand. Inorganica Chimica Acta, 2017, 455, 235-240.	2.4	3
33	The maiden report of a fluorescent-colorimetric sensor for expeditious detection of bifluoride ion in aqueous media. RSC Advances, 2016, 6, 108717-108725.	3.6	6
34	Solvent-dependent fluorescent-colorimetric probe for dual monitoring of Al ³⁺ and Cu ²⁺ in aqueous solution: an application to bio-imaging. Dalton Transactions, 2016, 45, 11540-11553.	3.3	63
35	A highly sensitive reversible fluorescent-colorimetric azino bis-Schiff base sensor for rapid detection of Pb ²⁺ in aqueous media. Analytical Methods, 2016, 8, 2032-2040.	2.7	36
36	A reversible fluorescent-colorimetric chemosensor based on a novel Schiff base for visual detection of CO ₃ ²⁻ in aqueous solution. RSC Advances, 2016, 6, 72185-72192.	3.6	50

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37	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.	2.7	57
38	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.	2.8	32
39	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.	3.3	57
40	Exploitation of a simple Schiff base as a ratiometric and colorimetric chemosensor for glutamic acid. <i>Analytical Methods</i> , 2015, 7, 8146-8151.	2.7	23
41	Photoluminescent mixed ligand complexes of CuX ($\text{X}=\text{Cl}, \text{Br}, \text{I}$) 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.	3.6	8
42	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.	2.7	43
43	Synthesis, characterization, structural investigation, and antimicrobial studies of mononuclear Zn(II) , Cd(II) , and Ag(I) complexes of an N_3O Schiff base. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3107-3120.	2.2	5
44	A photoluminescent interpenetrating metal-organic frame work based on Cu_4I_4 and novel azino-quinoline ligand. <i>Journal of Molecular Structure</i> , 2014, 1059, 332-337.	3.6	4
45	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.	2.4	17
46	Structural diversity of silver (I) azine complexes Effect of substituents and counter anions. <i>Journal of Molecular Structure</i> , 2011, 1000, 29-34.	3.6	6