Suban K Sahoo

List of Publications by Year in descending order

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196 papers	6,194 citations	66234 42 h-index	110170 64 g-index
200 all docs	200 docs citations	200 times ranked	5415 citing authors

#	Article	IF	Citations
1	Iron(iii) selective molecular and supramolecular fluorescent probes. Chemical Society Reviews, 2012, 41, 7195.	18.7	688
2	Optical probes for the detection of protons, and alkali and alkaline earth metal cations. Chemical Society Reviews, 2015, 44, 4415-4432.	18.7	149
3	In silico ADMET and molecular docking study on searching potential inhibitors from limonoids and triterpenoids for COVID-19. Computers in Biology and Medicine, 2020, 124, 103936.	3.9	148
4	Functionalized silver nanoparticles as chemosensor for pH, Hg2+ and Fe3+ in aqueous medium. Sensors and Actuators B: Chemical, 2013, 188, 937-943.	4.0	106
5	Chemosensors for biogenic amines and biothiols. Journal of Materials Chemistry B, 2018, 6, 4872-4902.	2.9	102
6	Fluorescence â€˜turn-onâ€™ sensor for Fâ^' derived from vitamin B6 cofactor. Analyst, The, 2013, 138, 3646.	1.7	96
7	Anion sensing with chemosensors having multiple NH recognition units. TrAC - Trends in Analytical Chemistry, 2017, 95, 86-109.	5.8	90
8	Recent Advances on Iron(III) Selective Fluorescent Probes with Possible Applications in Bioimaging. Molecules, 2019, 24, 3267.	1.7	84
9	Highly selective turn-on fluorescent sensor for nanomolar detection of biologically important Zn2+ based on isonicotinohydrazide derivative: Application in cellular imaging. Biosensors and Bioelectronics, 2014, 61, 429-433.	5.3	83
10	A highly selective fluorescent â€˜turn-onâ€™ chemosensor for Zn²⁺based on a benzothiazole conjugate: their applicability in live cell imaging and use of the resultant complex as a secondary sensor of CN^{â^'}. Dalton Transactions, 2015, 44, 2097-2102.	1.6	78
11	A two-in-one dual channel chemosensor for Fe³⁺and Cu²⁺with nanomolar detection mimicking the IMPLICATION logic gate. Journal of Materials Chemistry C, 2015, 3, 453-460.	2.7	77
12	A novel fluorescent â€œturn-onâ€•chemosensor for nanomolar detection of Fe(III) from aqueous solution and its application in living cells imaging. Biosensors and Bioelectronics, 2014, 61, 612-617.	5.3	76
13	Three-in-one type fluorescent sensor based on a pyrene pyridoxal cascade for the selective detection of Zn(<scp>ii</scp>), hydrogen phosphate and cysteine. Dalton Transactions, 2018, 47, 742-749.	1.6	76
14	A highly selective and sensitive fluorescent â€˜turn-onâ€™ chemosensor for Al3+ based on C N isomerisation mechanism with nanomolar detection. Sensors and Actuators B: Chemical, 2016, 222, 562-566.	4.0	72
15	Pyridoxamine driven selective turn-off detection of picric acid using glutathione stabilized fluorescent copper nanoclusters and its applications with chemically modified cellulose strips. Biosensors and Bioelectronics, 2018, 102, 196-203.	5.3	72
16	Pyridoxal derived chemosensor for chromogenic sensing of Cu 2+ and fluorogenic sensing of Fe 3+ in semi-aqueous medium. Journal of Luminescence, 2016, 172, 297-303.	1.5	66
17	A novel Schiff base derivative of pyridoxal for the optical sensing of Zn2+ and cysteine. Photochemical and Photobiological Sciences, 2018, 17, 414-422.	1.6	65
18	A new Al3+ selective fluorescent turn-on sensor based on hydrazide-naphthalic anhydride conjugate and its application in live cells imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 105-112.	2.0	61

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19	Experimental and quantum chemical studies on corrosion inhibition performance of quinoline derivatives for MS in 1N HCl. Bulletin of Materials Science, 2012, 35, 459-469.	0.8	60
20	Combined use of spectrophotometer and smartphone for the optical detection of Fe 3+ using a vitamin B 6 cofactor conjugated pyrene derivative and its application in live cells imaging. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 361, 34-40.	2.0	58
21	Cost-effective approach to detect Cu(<scp>ii</scp>) and Hg(<scp>ii</scp>) by integrating a smartphone with the colorimetric response from a NBD-benzimidazole based dyad. Physical Chemistry Chemical Physics, 2019, 21, 11839-11845.	1.3	58
22	Development of the Smartphone-Assisted Colorimetric Detection of Thorium by Using New Schiffâ€™s Base and Its Applications to Real Time Samples. Inorganic Chemistry, 2018, 57, 15270-15279.	1.9	56
23	An â€œoffâ€“onâ€•colorimetric chemosensor for selective detection of Al3+, Cr3+ and Fe3+: Its application in molecular logic gate. Sensors and Actuators B: Chemical, 2015, 215, 451-458.	4.0	55
24	A chemosensor showing discriminating fluorescent response for highly selective and nanomolar detection of Cu2+ and Zn2+ and its application in molecular logic gate. Analytica Chimica Acta, 2015, 872, 63-69.	2.6	54
25	An aqueous friendly chemosensor derived from vitamin B6 cofactor for colorimetric sensing of Cu2+ and fluorescent turn-off sensing of Fe3+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 393-396.	2.0	54
26	Chemically modified cellulose strips with pyridoxal conjugated red fluorescent gold nanoclusters for nanomolar detection of mercuric ions. Biosensors and Bioelectronics, 2017, 90, 329-335.	5.3	54
27	A chemosensor for micro- to nano-molar detection of Ag⁺ and Hg²⁺ ions in pure aqueous media and its applications in cell imaging. Dalton Transactions, 2017, 46, 14201-14209.	1.6	54
28	Highly selective turn-on fluorogenic chemosensor for Zn2+ based on chelation enhanced fluorescence. Inorganic Chemistry Communication, 2019, 102, 171-179.	1.8	54
29	Smartphoneâ€Assisted Colorimetric Detection of Cr³⁺ using Vitamin B₆ Cofactor Functionalized Gold Nanoparticles and Its Applications in Real Sample Analyses. ChemistrySelect, 2018, 3, 6892-6896.	0.7	53
30	A novel colorimetric and fluorogenic chemosensor for selective detection of Cu²⁺ ions in mixed aqueous media. RSC Advances, 2014, 4, 42647-42653.	1.7	50
31	Optical sensing of anions using C3v-symmetric tripodal receptors. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 27, 30-53.	5.6	50
32	Vitamin B6 cofactor derived chemosensor for the selective colorimetric detection of acetate anions. Tetrahedron Letters, 2014, 55, 927-930.	0.7	48
33	Excited state intramolecular proton transfer (ESIPT) in a dioxotetraamine derived schiff base and its complexation with Fe(III) and Cr(III). Journal of Photochemistry and Photobiology A: Chemistry, 2007, 188, 298-310.	2.0	47
34	Experimental and theoretical investigation of 2-mercaptoquinoline-3-carbaldehyde and its Schiff base as an inhibitor of mild steel in 1M HCl. Journal of Electroanalytical Chemistry, 2013, 704, 118-129.	1.9	47
35	Vitamin B₆Cofactor Derivative: A Dual Fluorescent Turn-On Sensor to Detect Zn²⁺and CN^{â^’}Ions and Its Application in Live Cell Imaging. ChemistrySelect, 2017, 2, 7570-7579.	0.7	47
36	Polydopamine Modified Superparamagnetic Iron Oxide Nanoparticles as Multifunctional Nanocarrier for Targeted Prostate Cancer Treatment. Nanomaterials, 2019, 9, 138.	1.9	47

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37	Spectroscopic and Computational Study of a Naphthalene Derivative as Colorimetric and Fluorescent Sensor for Bioactive Anions. Journal of Fluorescence, 2013, 23, 387-392.	1.3	46
38	Highly selective fluorimetric sensor for Cu²⁺and Hg²⁺using a benzothiazole-based receptor in semi-aqueous media and molecular docking studies. RSC Advances, 2015, 5, 45528-45534.	1.7	45
39	Polydopamine films change their physicochemical and antimicrobial properties with a change in reaction conditions. Physical Chemistry Chemical Physics, 2018, 20, 5744-5755.	1.3	45
40	Naphthalene based colorimetric sensor for bioactive anions: Experimental and DFT study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 105, 477-482.	2.0	44
41	Quinoline-based chemosensor for fluoride and acetate: A combined experimental and DFT study. Sensors and Actuators B: Chemical, 2014, 197, 73-80.	4.0	44
42	A selective and discriminating noncyclic receptor for HSO4â˜' ion recognition. RSC Advances, 2014, 4, 15288.	1.7	44
43	An aggregation-induced emission active vitamin B6 cofactor derivative: application in pH sensing and detection of latent fingerprints. Photochemical and Photobiological Sciences, 2020, 19, 1402-1409.	1.6	44
44	Hg2+ induced hydrolysis of thiazole amine based Schiff base: Colorimetric and fluorogenic chemodosimeter for Hg2+ ions in an aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 19-26.	2.0	43
45	Tripodal amine catechol ligands: A fascinating class of chelators for aluminium(III). Journal of Inorganic Biochemistry, 2008, 102, 1581-1588.	1.5	42
46	A biomimetic approach to conjugate vitamin B6 cofactor with the lysozyme cocooned fluorescent AuNCs and its application in turn-on sensing of zinc(II) in environmental and biological samples. Analytical and Bioanalytical Chemistry, 2018, 410, 201-210.	1.9	42
47	The Amidine Based Colorimetric Sensor for Fe3+, Fe2+, and Cu2+ in Aqueous Medium. Journal of Fluorescence, 2014, 24, 1563-1570.	1.3	41
48	Highly efficient performance of activated carbon impregnated with Ag, ZnO and Ag/ZnO nanoparticles as antimicrobial materials. RSC Advances, 2015, 5, 108034-108043.	1.7	40
49	Highly selective optical and reversible dual-path chemosensor for cyanide detection and its application in live cells imaging. Biosensors and Bioelectronics, 2017, 92, 95-100.	5.3	40
50	Fluorescent sensing (Cu2+ and pH) and visualization of latent fingerprints using an AIE-active naphthaldehyde-pyridoxal conjugated Schiff base. Microchemical Journal, 2022, 178, 107404.	2.3	39
51	Spectroscopic and computational studies on the development of simple colorimetric and fluorescent sensors for bioactive anions. Supramolecular Chemistry, 2013, 25, 212-220.	1.5	37
52	A uracil nitroso amine based colorimetric sensor for the detection of Cu²⁺ions from aqueous environment and its practical applications. RSC Advances, 2015, 5, 21464-21470.	1.7	37
53	Highly selective nicotinohydrazide based â€˜turn-onâ€™ chemosensor for the detection of bioactive zinc(II): Its biocompitability and bioimaging application in cancer cells. Sensors and Actuators B: Chemical, 2018, 270, 200-206.	4.0	37
54	A novel chromogenic and fluorogenic chemosensor for detection of trace water in methanol. Sensors and Actuators B: Chemical, 2015, 210, 324-327.	4.0	36

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55	Chromo-fluorogenic sensing using vitamin B₆ cofactors and their derivatives: a review. New Journal of Chemistry, 2021, 45, 8874-8897.	1.4	36
56	Recent advancement on chromo-fluorogenic sensing of aluminum(III) with Schiff bases. Trends in Environmental Analytical Chemistry, 2022, 34, e00166.	5.3	36
57	Colorimetric and fluorescent â€œonâ€“offâ€•chemosensor for Cu2+ in semi-aqueous medium. Sensors and Actuators B: Chemical, 2014, 202, 924-928.	4.0	35
58	A novel zinc(<scp>ii</scp>) and hydrogen sulphate selective fluorescent â€œturn-onâ€•chemosensor based on isonicotiamide: INHIBIT type's logic gate and application in cancer cell imaging. Analyst, The, 2016, 141, 1814-1821.	1.7	35
59	Pyridoxal derived AIEgen as a fluorescent pH sensor. Dyes and Pigments, 2021, 184, 108844.	2.0	35
60	Virgin silver nanoparticles as colorimetric nanoprobe for simultaneous detection of iodide and bromide ion in aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 122-126.	2.0	34
61	Pyridoxal conjugated gold nanoparticles for distinct colorimetric detection of chromium(<scp>iii</scp>) and iodide ions in biological and environmental fluids. New Journal of Chemistry, 2017, 41, 7339-7346.	1.4	34
62	A New Bis(aquated) High Relaxivity Mn(II) Complex as an Alternative to Gd(III)-Based MRI Contrast Agent. Inorganic Chemistry, 2018, 57, 2631-2638.	1.9	34
63	Developing a Cost-Effective Bioassay to Detect Alkaline Phosphatase Activity and Generating White Light Emission from a Single Nano-Assembly by Conjugating Vitamin B₆ Cofactors with Lysozyme-Stabilized Fluorescent Gold Nanoclusters. ACS Sustainable Chemistry and Engineering, 2020, 8, 4107-4113.	3.2	34
64	2,2â€²-(Hydrazine-1,2-diylidenedimethylylidene)bis(6-isopropyl-3-methylphenol) based selective dual-channel chemosensor for Cu²⁺ in semi-aqueous media. RSC Advances, 2014, 4, 39639-39644.	1.7	33
65	A multi-analyte selective dansyl derivative for the fluorescence detection of Cu(ii) and cysteine. Photochemical and Photobiological Sciences, 2019, 18, 1533-1539.	1.6	33
66	A novel urea-linked dipodal naphthalene-based fluorescent sensor for Hg(II) and its application in live cell imaging. Talanta, 2014, 122, 16-22.	2.9	32
67	Anion selective chromogenic and fluorogenic chemosensor and its application in breast cancer live cell imaging. RSC Advances, 2014, 4, 41446-41452.	1.7	32
68	Virtual screening by targeting proteolytic sites of furin and TMPRSS2 to propose potential compounds obstructing the entry of SARS-CoV-2 virus into human host cells. Journal of Traditional and Complementary Medicine, 2022, 12, 6-15.	1.5	32
69	Potentiometric, spectrophotometric, theoretical studies and binding properties of a novel tripodal polycatechol-amine ligand with lanthanide(III) ions. Polyhedron, 2006, 25, 722-736.	1.0	31
70	Highly Sensitive Ratiometric Chemosensor for Selective â€²Nakedâ€Eyeâ€² Nanomolar Detection of Co²⁺ in Semiâ€Aqueous Media. ChemPhysChem, 2014, 15, 2230-2235.	1.0	31
71	Selective ciprofloxacin antibiotic detection by fluorescent siderophore pyoverdin. Biosensors and Bioelectronics, 2016, 81, 274-279.	5.3	31
72	Bipyridine bisphosphonate-based fluorescent optical sensor and optode for selective detection of Zn²⁺ ions and its applications. New Journal of Chemistry, 2018, 42, 8494-8502.	1.4	31

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73	A quick removal of toxic phenolic compounds using porous carbon prepared from renewable biomass coconut spathe and exploration of new source for porous carbon materials. Journal of Environmental Chemical Engineering, 2018, 6, 1434-1442.	3.3	31
74	Fluorescent chemosensors containing redox-active ferrocene: a review. Dalton Transactions, 2021, 50, 11681-11700.	1.6	31
75	Spectrophotometric and RGB performances of a new tetraphenylcyclopenta-derived Schiff base for the quantification of cyanide ions. Analytical Methods, 2019, 11, 1137-1143.	1.3	29
76	Synergism and aggregation behaviour in an aqueous binary mixture of cationicâ€“zwitterionic surfactants: physico-chemical characterization with molecular simulation approach. Physical Chemistry Chemical Physics, 2018, 20, 670-681.	1.3	28
77	Glutathione conjugated superparamagnetic Fe3O4-Au core shell nanoparticles for pH controlled release of DOX. Materials Science and Engineering C, 2019, 100, 453-465.	3.8	28
78	A fluorescent â€œturn-onâ€•sensor for the biologically active Zn 2+ ion. Inorganica Chimica Acta, 2014, 421, 538-543.	1.2	27
79	Hemolysis tendency of anticancer nanoparticles changes with type of blood group antigen: An insight into blood nanoparticle interactions. Materials Science and Engineering C, 2020, 109, 110645.	3.8	27
80	A comprehensive review on quinones based fluoride selective colorimetric and fluorescence chemosensors. Journal of Fluorine Chemistry, 2021, 244, 109744.	0.9	27
81	A novel phthalazine based highly selective chromogenic and fluorogenic chemosensor for Co2+ in semi-aqueous medium: application in cancer cell imaging. Photochemical and Photobiological Sciences, 2015, 14, 439-443.	1.6	26
82	Monoterpenoid derivative based ratiometric fluorescent chemosensor for bioimaging and intracellular detection of Zn2+ and Mg2+ ions. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 758-763.	2.0	26
83	Mercury Toxicity and Detection Using Chromo-Fluorogenic Chemosensors. Pharmaceuticals, 2021, 14, 123.	1.7	26
84	Cascade Detection of Pyridoxal 5â€²-Phosphate and Al³⁺ Ions Based on Dual-Functionalized Red-Emitting Copper Nanoclusters. ACS Applied Nano Materials, 2021, 4, 6231-6238.	2.4	26
85	An aggregation-induced emissive pyridoxal derived tetradentate Schiff base for the fluorescence turn-off sensing of copper(<scp>ii</scp>) in an aqueous medium. New Journal of Chemistry, 2022, 46, 3248-3257.	1.4	26
86	A New Fluorescent Sensor for the Determination of Iron(III) in Semi-Aqueous Solution. Journal of Fluorescence, 2012, 22, 795-798.	1.3	25
87	Bioimaging application of a novel anion selective chemosensor derived from vitamin B6 cofactor. Journal of Photochemistry and Photobiology B: Biology, 2015, 148, 37-42.	1.7	25
88	DNA targeting half sandwich Ru(<scp>ii</scp>)-p-cymene-N^N complexes as cancer cell imaging and terminating agents: influence of regioisomers in cytotoxicity. Dalton Transactions, 2021, 50, 979-997.	1.6	25
89	The detection of Al³⁺ and Cu²⁺ ions using isonicotinohydrazide-based chemosensors and their application to live-cell imaging. Materials Advances, 2021, 2, 6306-6314.	2.6	25
90	Pyridoxal-thiosemicarbazide: its anion sensing ability and application in living cells imaging. RSC Advances, 2015, 5, 50741-50746.	1.7	24

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91	A highly selective fluorescent â€˜turn-onâ€™ chemosensor for Hg²⁺ based on a phthalazin-hydrazone derivative and its application in human cervical cancer cell imaging. New Journal of Chemistry, 2015, 39, 3071-3076.	1.4	24
92	Photophysical and thermal properties of novel solid state fluorescent benzoxazole based styryl dyes from a DFT study. RSC Advances, 2015, 5, 42971-42977.	1.7	24
93	Novel fluorescent chemosensing of CN^{â^’} anions with nanomolar detection using the Zn²⁺â€“isonicotinohydrazide metal complex. RSC Advances, 2014, 4, 41802-41806.	1.7	23
94	Pyridoxal derivative functionalized gold nanoparticles for colorimetric determination of zinc(<scp>ii</scp>) and aluminium(<scp>iii</scp>). RSC Advances, 2015, 5, 97690-97695.	1.7	23
95	Applications of vitamin B6 cofactor pyridoxal 5â€²-phosphate and pyridoxal 5â€²-phosphate crowned gold nanoparticles for optical sensing of metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 174, 1-6.	2.0	23
96	Human nitric oxide biomarker as potential NO donor in conjunction with superparamagnetic iron oxide @ gold core shell nanoparticles for cancer therapeutics. Colloids and Surfaces B: Biointerfaces, 2018, 163, 246-256.	2.5	23
97	Unraveling the solubilization and cytotoxicity study of poorly water-soluble anti-inflammatory drug in aqueous Gemini surfactants solution with physicochemical characterization and simulation study. Colloids and Surfaces B: Biointerfaces, 2019, 179, 437-444.	2.5	23
98	Fluorescent chemosensor for Al(III) based on chelation-induced fluorescence enhancement and its application in live cells imaging. Inorganica Chimica Acta, 2020, 511, 119805.	1.2	23
99	Selective turn-off sensing of picric acid and p-nitrophenol using fluorescent histidine. Nano Structures Nano Objects, 2019, 19, 100345.	1.9	22
100	Dioxotetraamines derived molecular and supramolecular devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2009, 10, 1-20.	5.6	21
101	A lawsone azo dye-based fluorescent chemosensor for Cu2+ and its application in drug analysis. Inorganica Chimica Acta, 2015, 438, 37-41.	1.2	21
102	Schiff base bis(5-nitrosalycilaldehyde)ethylenediamine as colorimetric sensor for fluoride. Research on Chemical Intermediates, 2015, 41, 391-400.	1.3	21
103	Colorimetric anion sensors based on positional effect of nitro group for recognition of biologically relevant anions in organic and aqueous medium, insight real-life application and DFT studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 596-610.	2.0	21
104	Vitamin B6 cofactor conjugated rhodamine 6G derivative: Fluorescent turn-on sensing of Al(III) and Cr(III) with bioimaging application in live HeLa cells. Inorganica Chimica Acta, 2019, 489, 198-203.	1.2	21
105	Mimicking biological process to detect alkaline phosphatase activity using the vitamin B6 cofactor conjugated bovine serum albumin capped CdS quantum dots. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110624.	2.5	21
106	Mitochondria-Targeting Click-Derived Pyridinyltriazolylmethylquinoxaline-Based Y-Shaped Binuclear Luminescent Ruthenium(II) and Iridium(III) Complexes as Cancer Theranostic Agents. Inorganic Chemistry, 2020, 59, 17689-17711.	1.9	21
107	Computational studies on the interaction of SARS-CoV-2 Omicron SGp RBD with human receptor ACE2, limonin and glycyrrhizic acid. Computers in Biology and Medicine, 2022, 144, 105367.	3.9	21
108	Architecture of dipodal ratiometric motif showing discrete nanomolar response towards fluoride ion. Sensors and Actuators B: Chemical, 2014, 202, 1333-1337.	4.0	20

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109	Anion-driven selective colorimetric detection of Hg²⁺and Fe³⁺using functionalized silver nanoparticles. RSC Advances, 2014, 4, 1341-1346.	1.7	20
110	Vitamin B6 cofactors guided highly selective fluorescent turn-on sensing of histamine using beta-cyclodextrin stabilized ZnO quantum dots. Food Chemistry, 2020, 320, 126611.	4.2	20
111	Potentiometric and spectrophotometric study of a new dipodal ligand N,Nâ€²-bis{2-[(2-hydroxybenzylidine)amino]ethyl}malonamide with Co(II), Ni(II), Cu(II) and Zn(II). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 63, 574-586.	2.0	19
112	Optical sensing of hydrogen sulphate using rhodamine 6G hydrazide from aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 180, 44-50.	2.0	19
113	Highly selective CHEF-type chemosensor for lutetium (III) recognition in semi-aqueous media. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 32-39.	2.0	19
114	Fluoride selective colorimetric sensor based on cefetamet pivoxil drug. Journal of Fluorine Chemistry, 2014, 164, 51-57.	0.9	18
115	Cu2+-driven selective colorimetric sensing of iodide ions and AND logic gate using citrate-capped AgNPs. Materials Letters, 2015, 145, 34-36.	1.3	18
116	VitaminÂB₆ÂCofactorâ€Conjugated Polyethyleneimineâ€Passivated Silver Nanoclusters for Fluorescent Sensing ofÂÂZn²⁺ÀandÂÂCd²⁺ÂUsing Chemically Modified Cellulose Strips. ChemistrySelect, 2017, 2, 6023-6029.	0.7	18
117	Vitamin B6 cofactors conjugated ovalbumin-stabilized gold nanoclusters: Application in alkaline phosphatase activity detection and generating white-light emission. Microchemical Journal, 2020, 156, 104859.	2.3	18
118	A new Schiff base as a turnâ€off fluorescent sensor for Cu²⁺ and its photophysical properties. Luminescence, 2017, 32, 1426-1430.	1.5	18
119	A new dioxotetraamine ligand derived from binicotinic acid: synthesis, coordination, and fluorescence behaviour towards divalent transition metal ions. Monatshefte FÃ¼r Chemie, 2010, 141, 157-168.	0.9	17
120	Highly sensitive and selective determination of Hg2+ by using 3-((2-(1H-benzo[d]imidazol-2-yl)phenylimino)methyl)benzene-1,2-diol as fluorescent chemosensor and its application in real water sample. Supramolecular Chemistry, 2015, 27, 527-532.	1.5	17
121	Acetate selective fluorescent turn-on sensors derived using vitamin B 6 cofactor pyridoxal-5-phosphate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 157, 110-115.	2.0	17
122	Development of highly selective chemosensor for thorium estimation. Sensors and Actuators B: Chemical, 2018, 255, 1391-1400.	4.0	17
123	A new phthalimide based chemosensor for selective spectrophotometric detection of Cu(II) from aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117129.	2.0	17
124	Synthesis of Dihydropyrimidinones Using Large Pore Zeolites. Catalysis Letters, 2011, 141, 1541-1547.	1.4	16
125	Ratiometric fluorescent scaffold giving discrete response towards iodide ion: a combined experimental and DFT study. Journal of Molecular Recognition, 2014, 27, 683-688.	1.1	16
126	2,2â€²-[Benzene-1,2-diylbis(iminomethanediyl)]diphenol derivative bearing two amine and hydroxyl groups as fluorescent receptor for Zinc(II) ion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 312-316.	2.0	16

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127	Electrochemical impedance spectroscopy reveals a new mechanism based on competitive binding between Tris and protein on a conductive biomimetic polydopamine surface. Physical Chemistry Chemical Physics, 2018, 20, 25812-25821.	1.3	16
128	Dual optical properties of new schiff base based on bisthiophene for sensing of Cu2+ in protic media. Journal of Molecular Structure, 2019, 1198, 126906.	1.8	16
129	A ninhydrinâ€“thiosemicarbazone based highly selective and sensitive chromogenic sensor for Hg2+ and Fâ^' ions. Journal of Chemical Sciences, 2020, 132, 1.	0.7	16
130	Visible colorimetric sensing of Zn2+ and CNâ^' by diaminomaleonitrile derived Schiffâ€™s base and its applications to pharmaceutical and food sample analysis. Inorganic Chemistry Communication, 2021, 130, 108708.	1.8	16
131	Exploring the therapeutic nature of limonoids and triterpenoids against SARS-CoV-2 by targeting nsp13, nsp14, and nsp15 through molecular docking and dynamics simulations. Journal of Traditional and Complementary Medicine, 2022, 12, 44-54.	1.5	16
132	Selectivity enhancement of Arsenazo(III) reagent towards heavier lanthanides using polyaminocarboxylic acids: A spectrophotometric study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 165-175.	2.0	15
133	Novel C3V-symmetric trindane based tripodal anion receptor with tris(coumarin-urea) extension for optical sensing of bioactive anions. Tetrahedron, 2015, 71, 8111-8116.	1.0	15
134	A novel fluorescent triazole trindane-coumarin receptor for the selective detection of nitroaromatics. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 383, 111990.	2.0	15
135	Spectroscopic, cytotoxicity and molecular docking studies on the interaction between 2,4-dinitrophenylhydrazine derived Schiff bases with bovine serum albumin. Sensors International, 2020, 1, 100048.	4.9	15
136	Sequential detection of vitamin B6 cofactors and nitroaromatics by using albumin-stabilized fluorescent copper nanoclusters. Microchemical Journal, 2021, 170, 106778.	2.3	15
137	Anion recognition ability of a novel azo dye derived from 4-hydroxycoumarin. Journal of Luminescence, 2014, 154, 515-519.	1.5	14
138	m-Dinitrobenzene directed aggregation-induced emission enhancement of cysteine modified fluorescent copper nanoclusters. Microchemical Journal, 2019, 147, 899-904.	2.3	14
139	Studies on molecular structure and tautomerism of a vitamin B6 analog with density functional theory. Journal of Molecular Modeling, 2012, 18, 1993-2001.	0.8	13
140	Development of highly selective chemosensor for chomium(III) estimation in aqueous environment. Inorganic Chemistry Communication, 2019, 101, 74-80.	1.8	13
141	A new lawsone azo-dye for optical sensing of Fe3+ and Cu2+ and their DFT study. Journal of Coordination Chemistry, 2016, 69, 2785-2792.	0.8	12
142	Sensing of Zn(II) and nitroaromatics using salicyclaldehyde conjugated lysozyme-stabilized fluorescent gold nanoclusters. Microchemical Journal, 2019, 151, 104227.	2.3	12
143	Synthesis, spectroscopic and theoretical studies of two novel tripodal imine-phenol ligands and their complexation with Fe(III). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 544-552.	2.0	11
144	Quantum chemical studies and dyeing performance of some novel benzoquinoline based heterocyclic monoazo dyes on polyester fiber. Dyes and Pigments, 2012, 95, 142-148.	2.0	11

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145	Design, synthesis and 1H NMR study of C3v-symmetric anion receptors with urethane-NH as recognition group. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 199-205.	2.0	11
146	Gastrointestinal tract mechanism of nitrite capture modeled on the self assembled monolayer of thioproline for electrochemical nitrite determination. Journal of Materials Chemistry A, 2017, 5, 3389-3403.	5.2	11
147	Development of highly selective potentiometric thorium(<scp>iv</scp>) ion-selective electrode: exploration supported with optical and DFT analysis. Analytical Methods, 2019, 11, 1338-1345.	1.3	11
148	Decorating Vitamin B₆ Cofactor over Beta-Cyclodextrin Stabilized Silver Nanoparticles through Inclusion Complexation for Fluorescent Turn-On Detection of Hydrazine. ACS Applied Bio Materials, 2020, 3, 7021-7028.	2.3	11
149	Quinolone based chemosensor for the naked-eye and spectrophotometric detection of Cu2+ in aqueous media. Inorganic Chemistry Communication, 2014, 49, 59-62.	1.8	10
150	Spectroscopic, potentiometric and theoretical studies of novel imino-phenolate chelators for Fe(III). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 134, 165-172.	2.0	10
151	C_{3v}-symmetric anion receptors with guanidine recognition motifs for ratiometric sensing of fluoride. RSC Advances, 2016, 6, 7872-7878.	1.7	10
152	A novel terephthalaldehyde based turn-on fluorescent chemosensor for Cu2+ and its application in imaging of living cells. Photochemical and Photobiological Sciences, 2017, 16, 1464-1470.	1.6	10
153	Potentiometric and Spectrophotometric Studies on the Binding Ability of a Flexible Tripodal Catecholamine Ligand toward Iron(III). Journal of Chemical & Engineering Data, 2011, 56, 2849-2855.	1.0	9
154	Environmentally Friendly Inorganic Magnetic Sulfide Nanoparticles for Efficient Adsorptionâ€Based Mercury Remediation from Aqueous Solution. ChemistrySelect, 2018, 3, 1840-1851.	0.7	9
155	Iodine catalysed unprecedented synthesis of ferrocenated thiols and bis-dithianes: Chemoselectivity and smart phone based metal sensing application. Journal of Organometallic Chemistry, 2020, 920, 121318.	0.8	9
156	Fluorescent sensing of water in DMSO by 2,4-dinitrophenyl hydrazine derived Schiff base. Journal of Molecular Structure, 2022, 1251, 132086.	1.8	9
157	Selective Fluorescent Turnâ€Off Detection of Picric Acid Using a Novel Tripodal Supramolecular Triazoleâ€Trindaneâ€Based Receptor. ChemistrySelect, 2019, 4, 10895-10901.	0.7	8
158	A novel C3v-symmetric molecular clip with tris(diamide) recognition sites on trindane platform for H2PO4â¯ recognition. Tetrahedron Letters, 2018, 59, 1679-1682.	0.7	7
159	Vitamin B₆ cofactor-directed fluorescent â€œturn-onâ€•detection of alkaline-phosphatase activity using bovine serum albumin-functionalized Mnâ€“ZnS quantum dots. Sensors & Diagnostics, 2022, 1, 579-585.	1.9	7
160	Synthesis, characterization and dynamic stereochemistry of thermochromic tris(dithiocarbamato)vanadium(III) complexes stereochemistry of thermochromic tris(dithiocarbamato)vanadium(III) complexes. Journal of Coordination Chemistry, 2006, 59, 371-378.	0.8	6
161	Selfâ€Folding Deep Cavitand with Acetamidoquinoxaline Flaps: Hindered Ring Inversion of Cyclohexane in a Confined Cavity by CHâ€“Ï€ Interaction. Asian Journal of Organic Chemistry, 2015, 4, 729-732.	1.3	6
162	Toxicity prediction of PHDDs and phenols in the light of nucleic acid bases and DNA base pair interaction. Journal of Molecular Graphics and Modelling, 2015, 62, 128-137.	1.3	6

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163	Highly selective iodide sensing ability of an anthraquinone-derived Schiff base in semi-aqueous medium and its performance in antioxidation, anti-inflammation and HRBC membrane protection. New Journal of Chemistry, 2018, 42, 6175-6182.	1.4	6
164	2,2â€²-Bipyrimidine-based luminescent Ru(<scp>ii</scp>)/Ir(<scp>iii</scp>)â€“arene monometallic and homo- and hetero-bimetallic complexes for therapy against MDA-MB-468 and caco-2 cells. Dalton Transactions, 2021, 50, 11725-11729.	1.6	6
165	A Novel Iron(III) Selective Membrane Electrode Containing a Tripodal Polycatacholamine as Sensor. Bulletin of the Korean Chemical Society, 2011, 32, 3592-3596.	1.0	6
166	[Ru(Î·⁶-p-cymene)(N^O 8-hydroxyquinoline)(PTA)] complexes as rising stars in medicinal chemistry: synthesis, properties, biomolecular interactions, in vitro anti-tumor activity toward human brain carcinomas, and in vivo biodistribution and toxicity in a zebrafish model. Dalton Transactions, 2022, 51, 8497-8509.	1.6	6
167	Tetrazolo[1,5-a]quinoline-4-carbaldehyde and its Schiff base on mild steel as corrosion inhibitor in 1â€‰M HCl solution: electrochemistry, theoretical and SEM surface analysis. Surface and Interface Analysis, 2015, 47, 706-718.	0.8	5
168	Cation Sensing of Pyridoxal Derived Sensors Towards Fe (II) Ion in Pure Aqueous Solution.. Chemical Sciences Journal, 2017, 08, .	0.1	5
169	Complexation of a tripodal amine-catechol ligand tris((2,3-dihydroxybenzylamino)ethyl)amine towards Al(III), Ga(III), and In(III). Monatshefte FÃ¼r Chemie, 2009, 140, 139-145.	0.9	4
170	Spectrophotometric and Potentiometric Studies on the Binding Abilities of Two Novel Tripodal Imine-Phenol Ligands Towards Al(III) and Ga(III). Journal of Solution Chemistry, 2011, 40, 1187-1199.	0.6	4
171	Spectroscopic and pH-metric studies on the complexation of a novel tripodal amine-phenol ligand towards Al(III), Ga(III) and In(III). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 322-328.	2.0	4
172	Isatin-3-Phenylhydrazone: A Highly Selective Colorimetric Chemosensor for Copper, Chromium and Cobalt Ions in Semi-Aqueous Medium. Sensor Letters, 2017, 15, 266-275.	0.4	4
173	Tripodal tris(diamide) receptor having H-bond donors and acceptors on trindane platform for H2PO4â^' recognition. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2019, 95, 215-221.	0.9	4
174	A Fused Benzothiazoloâ€Pyrimidineâ€Based Chemosensor for Selective Optical Detection of Fe³⁺ and I^{â^'} Ions in Aqueous Media. ChemistrySelect, 2019, 4, 4185-4189.	0.7	4
175	Asymmetric Direct Aldol Reaction in Confined Space: Molecular Conformations of Organocatalyst Affect Chiral Induction. ChemistrySelect, 2019, 4, 13210-13218.	0.7	4
176	Exploration of highly selective fluorogenic â€˜onâ€“off' chemosensor for H₂PO<sub>4</sup>^{â^'} ions: ICTâ€based sensing and ATPase activity profiling. Luminescence, 2020, 35, 379-384.	1.5	4
177	Rapid detection strategies for the ultra-level chemosensing of uranyl ions. Dalton Transactions, 2021, 50, 14706-14713.	1.6	4
178	Study of Anticancer Drugs Interaction with Hemoglobin by Electrochemical Methods and Molecular Docking: Implications towards Anticancer Treatment. ChemistrySelect, 2021, 6, 4098-4106.	0.7	4
179	Sensing and biosensing with optically active nanomaterials. , 2022, , 1-7.		4
180	A copper(II) displacement approach for fluorescent turn-on sensing of glutathione using salicylaldehyde modified polydopamine nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 430, 113987.	2.0	4

#	Article	IF	Citations
181	Iridium(<scp>iii</scp>)â€“Cp*-(imidazo[4,5-f][1,10]phenanthrolin-2-yl)phenol analogues as hypoxia active, GSH-resistant cancer cytoselective and mitochondria-targeting cancer stem cell therapeutic agents. Dalton Transactions, 2022, 51, 5494-5514.	1.6	3
182	Fluorescent pH sensing and MnO2 nanosphere directed turn-on sensing of glutathione using pyridoxal 5â€²-phosphate modified polydopamine nanoparticles. Inorganic Chemistry Communication, 2022, 142, 109677.	1.8	3
183	Spectroscopic, potentiometric and theoretical studies on the binding properties of a novel tripodal polycatechol-imine ligand towards iron(III). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 1452-1460.	2.0	2
184	Monoazo Styryl Quinazolinone Reactive Dyes: Their Synthesis, Application and Density Function Theory (DFT) Calculation. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 339-348.	0.8	2
185	Effect of Ligand Chirality and Hyperconjugation on the Thermodynamic Stability of a Tris(aquated) GdIII Complex: Synthesis, Characterization, and T 1 -Weighted Phantom MR Image Study. European Journal of Inorganic Chemistry, 2019, 2019, 2518-2523.	1.0	2
186	Atomically precise fluorescent metal nanoclusters. , 2022, , 207-242.		2
187	A C3v-symmetric triphosphine ligand derived from trindane skeleton: synthesis, inclusion of C60, and catalytic activity of its Pd complex. Tetrahedron Letters, 2015, 56, 5665-5669.	0.7	1
188	Rhodamine based NIR and ratiometric fluorescent sensor for selective identification of potassium ion: application in biological sample. Supramolecular Chemistry, 2019, 31, 36-44.	1.5	1
189	Design, Synthesis and Computational Studies of New Benzothiazole Substituted Quinazolines as Potential Antimicrobial Agents. Letters in Drug Design and Discovery, 2013, 10, 957-966.	0.4	1
190	New Potentiometric Iron(III)-selective Electrode Based on a Tris(Aminophenolate) as a Sensing Molecule. Current Analytical Chemistry, 2015, 11, 257-264.	0.6	1
191	Colorimetric sensing using plasmonic nanoparticles. , 2022, , 175-205.		1
192	Studies of Binary Complexes of Tripodal Ligandcis,cis-1,3,5-tris(methylamino)cyclohexane with Cr(III) and Fe(III). E-Journal of Chemistry, 2005, 2, 52-57.	0.4	0
193	A New Methodology for Detection and Assessment of Nitric Oxide in Biological Samples. ChemistrySelect, 2017, 2, 8483-8485.	0.7	0
194	Inclusion complexation of a deep cavitand with imidazoquinoxaline flaps forming stable vase-like conformation. Tetrahedron, 2018, 74, 1759-1766.	1.0	0
195	Cu2+-driven metallo-supramolecular self-assembly and its application in sensing of hydroxyl ion. Supramolecular Chemistry, 2018, 30, 52-60.	1.5	0
196	VB6 conjugated fluorescent nanoclusters as sensory probes for metal ions and its biological applications. Journal of Diagnostic Techniques and Biomedical Analysis, 2018, 07, .	0.1	0