

Raju Nandhakumar

List of Publications by Year in descending order

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57
papers

1,789
citations

218677

26
h-index

276875

41
g-index

60
all docs

60
docs citations

60
times ranked

2010
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and highly selective relay recognition of Cu(II) and sulfide ions by a simple benzimidazole-based fluorescent sensor in water. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 188-194.	7.8	156
2	Single sensor for two metal ions: Colorimetric recognition of Cu ²⁺ and fluorescent recognition of Hg ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 1168-1172.	3.9	138
3	Ratiometric Fluorescent Chemosensor for Silver Ion at Physiological pH. <i>Inorganic Chemistry</i> , 2011, 50, 2240-2245.	4.0	119
4	Zn ²⁺ -induced conformational changes in a binaphthyl-pyrene derivative monitored by using fluorescence and CD spectroscopy. <i>Chemical Communications</i> , 2013, 49, 7228.	4.1	83
5	Synthesis, characterization and crystal structure of cobalt(III) complexes containing 2-acetylpyridine thiosemicarbazones: DNA/protein interaction, radical scavenging and cytotoxic activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 130, 205-216.	3.8	75
6	Novel binaphthyl-containing bi-nuclear boron complex with low concentration quenching effect for efficient organic light-emitting diodes. <i>Chemical Communications</i> , 2010, 46, 6512.	4.1	64
7	A new benzimidazole-based quinazoline derivative for highly selective sequential recognition of Cu ²⁺ and CN ⁻ . <i>Tetrahedron Letters</i> , 2013, 54, 536-540.	1.4	59
8	BINO-Based Chiral Receptors as Fluorescent and Colorimetric Chemosensors for Amino Acids. <i>Journal of Organic Chemistry</i> , 2013, 78, 11571-11576.	3.2	58
9	Enantioselective Liquid-Liquid Extractions of Underivatized General Amino Acids with a Chiral Ketone Extractant. <i>Journal of the American Chemical Society</i> , 2013, 135, 2653-2658.	13.7	57
10	Experimental and Theoretical Studies on a Simple S-Bridged Dimeric Schiff Base: Selective Chromo-Fluorogenic Chemosensor for Nanomolar Detection of Fe ²⁺ and Al ³⁺ Ions and Its Varied Applications. <i>ACS Omega</i> , 2020, 5, 3055-3072.	3.5	57
11	Distorted tetrahedral bis-(N,S) bidentate Schiff base complexes of Ni(II), Cu(II) and Zn(II): Synthesis, characterization and biological studies. <i>Polyhedron</i> , 2016, 110, 203-220.	2.2	45
12	Unprecedented formation of organo-ruthenium(II) complexes containing 2-hydroxy-1-naphthaldehyde S-benzylthiocarbamate: synthesis, X-ray crystal structure, DFT study and their biological activities in vitro. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 620-639.	6.0	43
13	Dual Functional Fluorescent Chemosensor for Discriminative Detection of Ni ²⁺ and Al ³⁺ Ions and Its Imaging in Living Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16532-16543.	6.7	43
14	Ruthenium(III) S-methylisothiosemicarbazone Schiff base complexes bearing PPh ₃ /AsPh ₃ coligand: Synthesis, structure and biological investigations, including antioxidant, DNA and protein interaction, and in vitro anticancer activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 138, 63-74.	3.8	41
15	Nickel(II) and copper(II) complexes constructed with N ₂ S ₂ hybrid benzamidine-thiosemicarbazone ligand: synthesis, X-ray crystal structure, DFT, kinetic-catalytic and in vitro biological applications. <i>RSC Advances</i> , 2015, 5, 103321-103342.	3.6	41
16	Reactive Extraction of Enantiomers of 1,2-Amino Alcohols via Stereoselective Thermodynamic and Kinetic Processes. <i>Journal of Organic Chemistry</i> , 2008, 73, 5996-5999.	3.2	37
17	Dissymmetric thiosemicarbazone ligands containing substituted aldehyde arm and their ruthenium(II) carbonyl complexes with PPh ₃ /AsPh ₃ as ancillary ligands: Synthesis, structural characterization, DNA/BSA interaction and in vitro anticancer activity. <i>Journal of Organometallic Chemistry</i> , 2014, 768, 163-177.	1.8	37
18	Multi-analyte, ratiometric and relay recognition of a 2,5-diphenyl-1,3,4-oxadiazole-based fluorescent sensor through modulating ESIPT. <i>RSC Advances</i> , 2015, 5, 10505-10511.	3.6	36

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19	A highly selective and sensitive naphthalene-based chemodosimeter for Hg ²⁺ ions. <i>Journal of Luminescence</i> , 2014, 145, 733-736.	3.1	33
20	Binol based "turn on" fluorescent chemosensor for mercury ion. <i>Journal of Luminescence</i> , 2015, 162, 8-13.	3.1	33
21	Stereoconversion of Amino Acids and Peptides in Uryl Pendant Binol Schiff Bases. <i>Chemistry - A European Journal</i> , 2008, 14, 9935-9942.	3.3	32
22	Synthesis, crystal structure, biomolecular interactions and anticancer properties of Ni(II), Cu(II) and Zn(II) complexes bearing S-allyldithiocarbazate. <i>Inorganica Chimica Acta</i> , 2017, 455, 283-297.	2.4	32
23	Design, synthesis, structure and biological evaluation of new palladium(II) hydrazone complexes. <i>Inorganica Chimica Acta</i> , 2016, 453, 562-573.	2.4	30
24	New Palladium(II) complexes with ONO chelated hydrazone ligand: Synthesis, characterization, DNA/BSA interaction, antioxidant and cytotoxicity. <i>Inorganica Chimica Acta</i> , 2020, 512, 119868.	2.4	30
25	Synthesis, structure and in vitro biological activity of pyridoxal N(4)-substituted thiosemicarbazone cobalt(III) complexes. <i>Inorganica Chimica Acta</i> , 2014, 421, 80-90.	2.4	27
26	Synthesis, crystal structure and biological evaluation of Ni(II) complexes containing 4-chromone-N(4)-substituted thiosemicarbazone ligands. <i>Polyhedron</i> , 2016, 107, 57-67.	2.2	27
27	Facile Synthesis of the Uryl Pendant Binaphthol Aldehyde and Its Selective Fluorescent Recognition of Tryptophan. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3367-3371.	1.9	25
28	Recognition of Fe ³⁺ by a new azine-based fluorescent "turn-off" chemosensor and its binding mode analysis using DFT. <i>Journal of Molecular Structure</i> , 2020, 1208, 127834.	3.6	24
29	Rhodanine-based fluorometric sequential monitoring of silver (I) and iodide ions: Experiment, DFT calculation and multifarious applications. <i>Journal of Hazardous Materials</i> , 2021, 419, 126449.	12.4	23
30	Effects of ring substituents on enantioselective recognition of amino alcohols and acids in uryl-based binol receptors. <i>Tetrahedron</i> , 2008, 64, 7704-7708.	1.9	20
31	A New Rhodamine B Derivative As a Colorimetric Chemosensor for Recognition of Copper(II) Ion. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 3212-3216.	1.9	20
32	Synthesis, structure, DNA/BSA interaction and in vitro cytotoxic activity of nickel(II) complexes derived from S-allyldithiocarbazate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 176-185.	3.8	19
33	Chirality conversion and enantioselective extraction of amino acids by imidazolium-based binol-aldehyde. <i>Tetrahedron Letters</i> , 2008, 49, 6914-6916.	1.4	17
34	Enantioselective recognition of 1,2-aminoalcohols by the binol receptor dangled with pyrrole-2-carboxamide and its analogues. <i>Tetrahedron</i> , 2009, 65, 666-671.	1.9	17
35	New palladium(II) hydrazone complexes: Synthesis, structure and biological evaluation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 163, 1-13.	3.8	16
36	Functionalized graphene oxide materials for the fluorometric sensing of various analytes: a mini review. <i>Materials Advances</i> , 2021, 2, 6197-6212.	5.4	16

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37	Investigation of DNA/BSA binding and cytotoxic properties of new Co(II), Ni(II) and Cu(II) hydrazone complexes. <i>Inorganica Chimica Acta</i> , 2021, 526, 120536.	2.4	16
38	A photoswitchable α -fluorescent chemosensor: Quinoline-naphthalene duo for nanomolar detection of aluminum and bisulfite ions and its multifarious applications. <i>Food Chemistry</i> , 2022, 371, 131130.	8.2	16
39	Experimental and theoretical studies of imidazole based chemosensor for Palladium and their biological applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 385, 112092.	3.9	15
40	A New Rhodamine B-coumarin Fluorochrome for Colorimetric Recognition of Cu^{2+} and Fluorescent Recognition of Fe^{3+} in Aqueous Media. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3400-3404.	1.9	15
41	A single carbazole based chemosensor for multiple targets: Sensing of Fe^{3+} and arginine by fluorimetry and its applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 425, 113693.	3.9	15
42	A chiral ketone for enantioselective recognition of 1,2-amino alcohols. <i>Tetrahedron Letters</i> , 2007, 48, 6582-6585.	1.4	14
43	Highly Enantioselective Extraction of Underivatized Amino Acids by the Uryl Pendant Hydroxyphenyl-Binol Ketone. <i>Chemistry - A European Journal</i> , 2014, 20, 2895-2900.	3.3	14
44	Organoruthenium(II) compounds with pyridyl benzoxazole/benzthiazole moiety: studies on DNA/protein binding and enzyme mimetic activities. <i>Journal of Coordination Chemistry</i> , 2017, 70, 1645-1666.	2.2	10
45	Solvent-assisted formation of ruthenium(II)/copper(I) complexes containing thiourea derivatives: Synthesis, crystal structure, density functional theory, enzyme mimetics and <i>in vitro</i> biological perspectives. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3652.	3.5	7
46	Synthesis of Novel H8-Binaphthol-based Chiral Receptors and Their Applications in Enantioselective Recognition of 1,2-Amino alcohols and Chirality Conversion of L-Amino acids to D-Amino acids. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 1289-1294.	1.9	6
47	The Chirality Conversion Reagent for Amino Acids Based on Salicyl Aldehyde. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1715-1718.	1.9	6
48	Application of Imidazole Derivative for Fluorescent Detection and Determination of Cu(II) in Aqueous and Biological Media. <i>Journal of Analytical Chemistry</i> , 2020, 75, 1565-1574.	0.9	5
49	Discrimination of the Chirality of α -Amino Acids in Zn^{II} Complexes of DPA-Appended Binaphthyl Imine. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4959-4964.	2.4	4
50	Enantioselective Recognition of Amino Alcohols and Amino Acids by Chiral Binol-Based Aldehydes with Conjugated Rings at the Hydrogen Bonding Donor Sites. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1263-1267.	1.9	3
51	Synthesis, characterization, theoretical investigations and fluorescent sensing behavior of oligomeric azine-based Fe^{3+} Chemosensors. <i>High Performance Polymers</i> , 2022, 34, 321-336.	1.8	3
52	A Novel Dimeric BINOL for Enantioselective Recognition of 1,2-Amino Alcohols. <i>Chinese Journal of Chemistry</i> , 2014, 32, 1157-1160.	4.9	2
53	Toward a new avenue in ruthenium-sulphur chemistry of binuclear μ_4 -sulphido bridged $(\mu_4\text{-S})_2$ complexes having Ru_2S_2 core: Targeted synthesis, crystal structure, biomolecules interaction and their <i>in vitro</i> anticancer activities. <i>Inorganica Chimica Acta</i> , 2016, 453, 596-617.	2.4	2
54	Benzene Linked Dipodal Naphthalene: Chemosensor with Colorimetric Enhancement and Fluorimetric Quenching for Fe^{3+} Ion and its Application in Live Cell Imaging. <i>Journal of Analytical Chemistry</i> , 2020, 75, 1554-1564.	0.9	2

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55	Stereoselective Recognition of Amino Alcohols and Amino Acids by Carbonylurea- and Carbonylguanidinium-based Imine Receptors. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 2938-2942.	1.9	2
56	Enantioselective Decarboxylation of 2-Methyl-2-aminomalonate Catalyzed by (S)-2-Hydroxy-2'-(3-phenylurlyl-benzyl)-1,1'-binaphthyl-3-carboxaldehyde. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 2449-2450.	1.9	2
57	Reduced Graphene Oxide-Resorcinol Nanocomposite: A Chemosensor for the Detection of Cerium Ions. <i>Asian Journal of Chemistry</i> , 2021, 33, 2321-2326.	0.3	0