Raju Nandhakumar

List of Publications by Year
in descending order

57	1,789	218677	276875
papers	citations	26 h-index	41 g-index

60	60	60	2010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A photoswitchable â€œturn-onâ€•fluorescent chemosensor: Quinoline-naphthalene duo for nanomolar detection of aluminum and bisulfite ions and its multifarious applications. Food Chemistry, 2022, 371, 131130.	8.2	16
2	A single carbazole based chemosensor for multiple targets: Sensing of Fe3+ and arginine by fluorimetry and its applications. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 425, 113693.	3.9	15
3	Synthesis, characterization, theoretical investigations and fluorescent sensing behavior of oligomeric azine-based Fe³⁺Chemosensors. High Performance Polymers, 2022, 34, 321-336.	1.8	3
4	Functionalized graphene oxide materials for the fluorometric sensing of various analytes: a mini review. Materials Advances, 2021, 2, 6197-6212.	5.4	16
5	Reduced Graphene Oxide-Resorcinol Nanocomposite: A Chemosensor for the Detection of Cerium Ions. Asian Journal of Chemistry, 2021, 33, 2321-2326.	0.3	0
6	Rhodanine-based fluorometric sequential monitoring of silver (I) and iodide ions: Experiment, DFT calculation and multifarious applications. Journal of Hazardous Materials, 2021, 419, 126449.	12.4	23
7	Investigation of DNA/BSA binding and cytotoxic properties of new Co(II), Ni(II) and Cu(II) hydrazone complexes. Inorganica Chimica Acta, 2021, 526, 120536.	2.4	16
8	Benzene Linked Dipodal Naphthalene: Chemosensor with Colorimetric Enhancement and Fluorimetric Quenching for Fe3+ Ion and its Application in Live Cell Imaging. Journal of Analytical Chemistry, 2020, 75, 1554-1564.	0.9	2
9	Application of Imidazole Derivative for Fluorescent Detection and Determination of Cu(II) in Aqueous and Biological Media. Journal of Analytical Chemistry, 2020, 75, 1565-1574.	0.9	5
10	New Palladium(II) complexes with ONO chelated hydrazone ligand: Synthesis, characterization, DNA/BSA interaction, antioxidant and cytotoxicity. Inorganica Chimica Acta, 2020, 512, 119868.	2.4	30
11	Recognition of Fe3+ by a new azine-based fluorescent â€œturn-offâ€•chemosensor and its binding mode analysis using DFT. Journal of Molecular Structure, 2020, 1208, 127834.	3.6	24
12	Experimental and Theoretical Studies on a Simple Sâ€“S-Bridged Dimeric Schiff Base: Selective Chromo-Fluorogenic Chemosensor for Nanomolar Detection of Fe²⁺& Al³⁺Ions and Its Varied Applications. ACS Omega, 2020, 5, 3055-3072.	3.5	57
13	Experimental and theoretical studies of imidazole based chemosensor for Palladium and their biological applications. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 385, 112092.	3.9	15
14	Discrimination of the Chirality of Î±â€Amino Acids in Zn^{II} Complexes of DPAâ€Appended Binaphthyl Imine. European Journal of Organic Chemistry, 2018, 2018, 4959-4964.	2.4	4
15	Dual Functional Fluorescent Chemosensor for Discriminative Detection of Ni²⁺ and Al³⁺ Ions and Its Imaging in Living Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 16532-16543.	6.7	43
16	Organoruthenium(II) compounds with pyridyl benzoxazole/benzthiazole moiety: studies on DNA/protein binding and enzyme mimetic activities. Journal of Coordination Chemistry, 2017, 70, 1645-1666.	2.2	10
17	Synthesis, crystal structure, biomolecular interactions and anticancer properties of Ni(II), Cu(II) and Zn(II) complexes bearing S-allyldithiocarbazate. Inorganica Chimica Acta, 2017, 455, 283-297.	2.4	32
18	Solventâ€assisted formation of ruthenium(II)/copper(I) complexes containing thiourea derivatives: Synthesis, crystal structure, density functional theory, enzyme mimetics and in vitro biological perspectives. Applied Organometallic Chemistry, 2017, 31, e3652.	3.5	7

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19	New palladium(II) hydrazone complexes: Synthesis, structure and biological evaluation. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 1-13.	3.8	16
20	Design, synthesis, structure and biological evaluation of new palladium(II) hydrazone complexes. Inorganica Chimica Acta, 2016, 453, 562-573.	2.4	30
21	Toward a new avenue in ruthenium-sulphur chemistry of binuclear Î¼-sulphido bridged (Î¼-S)2 complexes having Ru2S2 core: Targeted synthesis, crystal structure, biomolecules interaction and their in vitro anticancer activities. Inorganica Chimica Acta, 2016, 453, 596-617.	2.4	2
22	Synthesis, crystal structure and biological evaluation of Ni(II) complexes containing 4-chromone-N(4)-substituted thiosemicarbazone ligands. Polyhedron, 2016, 107, 57-67.	2.2	27
23	Distorted tetrahedral bis-(N,S) bidentate Schiff base complexes of Ni(II), Cu(II) and Zn(II): Synthesis, characterization and biological studies. Polyhedron, 2016, 110, 203-220.	2.2	45
24	Nickel(<scp>ii</scp>) and copper(<scp>ii</scp>) complexes constructed with N₂S₂ hybrid benzamidineâ€“thiosemicarbazone ligand: synthesis, X-ray crystal structure, DFT, kinetico-catalytic and in vitro biological applications. RSC Advances, 2015, 5, 103321-103342.	3.6	41
25	Binol based â€œturn onâ€•fluorescent chemosensor for mercury ion. Journal of Luminescence, 2015, 162, 8-13.	3.1	33
26	Multi-analyte, ratiometric and relay recognition of a 2,5-diphenyl-1,3,4-oxadiazole-based fluorescent sensor through modulating ESIPT. RSC Advances, 2015, 5, 10505-10511.	3.6	36
27	Unprecedented formation of organo-ruthenium(<scp>ii</scp>) complexes containing 2-hydroxy-1-naphthaldehyde S-benzyldithiocarbazate: synthesis, X-ray crystal structure, DFT study and their biological activities in vitro. Inorganic Chemistry Frontiers, 2015, 2, 620-639.	6.0	43
28	A highly selective and sensitive naphthalene-based chemodosimeter for Hg2+ ions. Journal of Luminescence, 2014, 145, 733-736.	3.1	33
29	Synthesis, characterization and crystal structure of cobalt(III) complexes containing 2-acetylpyridine thiosemicarbazones: DNA/protein interaction, radical scavenging and cytotoxic activities. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 205-216.	3.8	75
30	Synthesis, structure, DNA/BSA interaction and in vitro cytotoxic activity of nickel(II) complexes derived from S-allyldithiocarbazate. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 176-185.	3.8	19
31	A Novel Dimeric BINOL for Enantioselective Recognition of 1,2â€Amino Alcohols. Chinese Journal of Chemistry, 2014, 32, 1157-1160.	4.9	2
32	Highly Enantioselective Extraction of Underivatized Amino Acids by the Urylâ€Pendant Hydroxyphenylâ€Binol Ketone. Chemistry - A European Journal, 2014, 20, 2895-2900.	3.3	14
33	Dissymmetric thiosemicarbazone ligands containing substituted aldehyde arm and their ruthenium(II) carbonyl complexes with PPh3/AsPh3 as ancillary ligands: Synthesis, structural characterization, DNA/BSA interaction and inÂvitro anticancer activity. Journal of Organometallic Chemistry, 2014, 768, 163-177.	1.8	37
34	Ruthenium(III) S-methylisothiosemicarbazone Schiff base complexes bearing PPh3/AsPh3 coligand: Synthesis, structure and biological investigations, including antioxidant, DNA and protein interaction, and in vitro anticancer activities. Journal of Photochemistry and Photobiology B: Biology, 2014, 138, 63-74.	3.8	41
35	Synthesis, structure and in vitro biological activity of pyridoxal N(4)-substituted thiosemicarbazone cobalt(III) complexes. Inorganica Chimica Acta, 2014, 421, 80-90.	2.4	27
36	Zn2+-induced conformational changes in a binaphthyl-pyrene derivative monitored by using fluorescence and CD spectroscopy. Chemical Communications, 2013, 49, 7228.	4.1	83

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37	BINO<scp>l</scp>-Based Chiral Receptors as Fluorescent and Colorimetric Chemosensors for Amino Acids. Journal of Organic Chemistry, 2013, 78, 11571-11576.	3.2	58
38	A new benzimidazole-based quinazoline derivative for highly selective sequential recognition of Cu2+ and CNâ¯. Tetrahedron Letters, 2013, 54, 536-540.	1.4	59
39	Enantioselective Liquidâ€“Liquid Extractions of Underivatized General Amino Acids with a Chiral Ketone Extractant. Journal of the American Chemical Society, 2013, 135, 2653-2658.	13.7	57
40	Rapid and highly selective relay recognition of Cu(II) and sulfide ions by a simple benzimidazole-based fluorescent sensor in water. Sensors and Actuators B: Chemical, 2013, 185, 188-194.	7.8	156
41	The Chirality Conversion Reagent for Amino Acids Based on Salicyl Aldehyde. Bulletin of the Korean Chemical Society, 2012, 33, 1715-1718.	1.9	6
42	Ratiometric Fluorescent Chemosensor for Silver Ion at Physiological pH. Inorganic Chemistry, 2011, 50, 2240-2245.	4.0	119
43	Single sensor for two metal ions: Colorimetric recognition of Cu2+ and fluorescent recognition of Hg2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1168-1172.	3.9	138
44	Enantioselective Recognition of Amino Alcohols and Amino Acids by Chiral Binol-Based Aldehydes with Conjugated Rings at the Hydrogen Bonding Donor Sites. Bulletin of the Korean Chemical Society, 2011, 32, 1263-1267.	1.9	3
45	Facile Synthesis of the Uryl Pendant Binaphthol Aldehyde and Its Selective Fluorescent Recognition of Tryptophan. Bulletin of the Korean Chemical Society, 2011, 32, 3367-3371.	1.9	25
46	A New Rhodamine B-coumarin Fluorochrome for Colorimetric Recognition of Cu²⁺and Fluorescent Recognition of^{Fe3+}in Aqueous Media. Bulletin of the Korean Chemical Society, 2011, 32, 3400-3404.	1.9	15
47	Novel binaphthyl-containing bi-nuclear boron complex with low concentration quenching effect for efficient organic light-emitting diodes. Chemical Communications, 2010, 46, 6512.	4.1	64
48	A New Rhodamine B Derivative As a Colorimetric Chemosensor for Recognition of Copper(II) Ion. Bulletin of the Korean Chemical Society, 2010, 31, 3212-3216.	1.9	20
49	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. Bulletin of the Korean Chemical Society, 2010, 31, 1289-1294.	1.9	6
50	Enantioselective Decarboxylation of 2-Methyl-2-aminomalonate Catalyzed by (S)-2-Hydroxy-2'-(3-phenyluryl-benzyl)-1,1'-binaphthyl-3-carboxaldehyde. Bulletin of the Korean Chemical Society, 2010, 31, 2449-2450.	1.9	2
51	Enantioselective recognition of 1,2-aminoalcohols by the binol receptor dangled with pyrrole-2-carboxamide and its analogues. Tetrahedron, 2009, 65, 666-671.	1.9	17
52	Stereoselective Recognition of Amino Alcohols and Amino Acids by Carbonylurea- and Carbonyguanidinium-based Imine Receptors. Bulletin of the Korean Chemical Society, 2009, 30, 2938-2942.	1.9	2
53	Chirality conversion and enantioselective extraction of amino acids by imidazolium-based binol-aldehyde. Tetrahedron Letters, 2008, 49, 6914-6916.	1.4	17
54	Stereoconversion of Amino Acids and Peptides in Urylâ€Pendant Binol Schiff Bases. Chemistry - A European Journal, 2008, 14, 9935-9942.	3.3	32

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55	Effects of ring substituents on enantioselective recognition of amino alcohols and acids in uryl-based binol receptors. Tetrahedron, 2008, 64, 7704-7708.	1.9	20
56	Reactive Extraction of Enantiomers of 1,2-Amino Alcohols via Stereoselective Thermodynamic and Kinetic Processes. Journal of Organic Chemistry, 2008, 73, 5996-5999.	3.2	37
57	A chiral ketone for enantioselective recognition of 1,2-amino alcohols. Tetrahedron Letters, 2007, 48, 6582-6585.	1.4	14