Natarajan Karuppannan

List of Publications by Year
in descending order

79	3,591	126907	138484
papers	citations	33 h-index	58 g-index

80	80	80	3313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	N-substitution in isatin thiosemicarbazones decides nuclearity of Cu(II) complexes â€“ Spectroscopic, molecular docking and cytotoxic studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 118963.	3.9	33
2	Hydrazone complexes of ruthenium(II): Synthesis, crystal structures and catalytic applications in N-alkylation reactions. Journal of Organometallic Chemistry, 2020, 923, 121411.	1.8	4
3	Synthesis, Characterization and Biological Activity of Novel Cu(II) Complexes of 6-Methyl-2-Oxo-1,2-Dihydroquinoline-3-Carbaldehyde-4n-Substituted Thiosemicarbazones. Molecules, 2020, 25, 1868.	3.8	18
4	Fluorescence sensing response of zinc(II) and pyrophosphate ions by benzoxazole appended dipodal Schiff base. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 370, 75-83.	3.9	26
5	Bis(Î¼-chloro) bridged 1D Cu I and Cu II coordination polymer complex and mononuclear Cu II complex: Synthesis, crystal structure and biological properties. Journal of Photochemistry and Photobiology B: Biology, 2018, 181, 59-69.	3.8	10
6	Synthesis, characterization and cytotoxic activity of novel copper(II) complexes with aroylhydrazone derivatives of 2-Oxo-1,2-dihydrobenzo[h]quinoline-3-carbaldehyde. Journal of Inorganic Biochemistry, 2018, 182, 18-28.	3.5	41
7	Synthesis, characterization and biological studies of a novel Cu(II) Schiff base complex. Inorganica Chimica Acta, 2018, 473, 255-262.	2.4	25
8	Novel water soluble bis(Î¼â€chloro) bridged Cu(II) binuclear and mononuclear complexes: Synthesis, characterization and biological evaluation. Applied Organometallic Chemistry, 2018, 32, e4111.	3.5	7
9	ONO pincerâ€type palladium(II) complexes of heterocyclic hydrazone: Synthesis, characterization and biological evaluation. Applied Organometallic Chemistry, 2018, 32, e4403.	3.5	10
10	Quinoline based Pd(II) complexes: Synthesis, characterization and evaluation of DNA/protein binding, molecular docking and in vitro anticancer activity. Inorganica Chimica Acta, 2018, 482, 229-239.	2.4	18
11	The effect of incorporating carboxylic acid functionalities into 2,2â€²-bipyridine on the biological activity of the complexes formed: synthesis, structure, DNA/protein interaction, antioxidant activity and cytotoxicity. RSC Advances, 2017, 7, 16428-16443.	3.6	25
12	Nearâ€Infraredâ€Absorbing Organometallic Diruthenium Complex Intermediates: Evidence for Bridging Anthrasemiquinone Formation and against Mixed Valency. Chemistry - A European Journal, 2017, 23, 17810-17816.	3.3	12
13	Impact of chelation on anticancer activities of organometallic ruthenium(<scp>ii</scp>) complexes containing 2,5-di(1H-pyrazol-1-yl)-1,4-benzoquinone: synthesis, structure, DNA/protein binding, antioxidant activity and cytotoxicity. RSC Advances, 2016, 6, 46531-46547.	3.6	8
14	Synthesis, crystal structure, DNA and protein binding studies of novel binuclear Pd(II) complex of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde-4(N,N)-dimethylthiosemicarbazone. Journal of Inorganic Biochemistry, 2016, 155, 1-8.	3.5	24
15	Spectral characterization of a pteridine derivative from cyanide-utilizing bacterium Bacillus subtilis - JN989651. Journal of Microbiology, 2015, 53, 262-271.	2.8	10
16	New organometallic ruthenium(ii) complexes containing chelidonic acid (4-oxo-4H-pyran-2,6-dicarboxylic acid): synthesis, structure and in vitro biological activity. RSC Advances, 2014, 4, 2004-2022.	3.6	28
17	Influence of carboxylic acid functionalities in ruthenium (II) polypyridyl complexes on DNA binding, cytotoxicity and antioxidant activity: Synthesis, structure and inÂvitro anticancer activity. European Journal of Medicinal Chemistry, 2013, 59, 253-264.	5.5	54
18	Synthesis, spectral characterization, antioxidant, anticancer in vitro, and DNA cleavage studies of a series of ruthenium(II) complexes bearing Schiff base ligands. Journal of Coordination Chemistry, 2013, 66, 4052-4066.	2.2	15

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19	Synthesis, structure and inÂvitro pharmacological evaluation of a novel 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (2â€²-methylbenzoyl) hydrazone bridged copper(II) coordination polymer. European Journal of Medicinal Chemistry, 2013, 64, 148-159.	5.5	84
20	Role of Substitution at Terminal Nitrogen of 2-Oxo-1,2-dihydroquinoline-3-Carbaldehyde Thiosemicarbazones on the Coordination Behavior and Structure and Biological Properties of Their Palladium(II) Complexes. Inorganic Chemistry, 2013, 52, 1504-1514.	4.0	76
21	Synthesis, characterization and inÂvitro pharmacological evaluation ofÂnew water soluble Ni(II) complexes of 4N-substituted thiosemicarbazones of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde. European Journal of Medicinal Chemistry, 2013, 64, 179-189.	5.5	16
22	Ruthenium(II) complexes of 2,2â€²-bipyridine-5,5â€²-dicarboxylic acid: Synthesis, structure, DNA binding, cytotoxicity and antioxidant activity. Inorganica Chimica Acta, 2013, 404, 58-67.	2.4	14
23	Ruthenium(II)/(III) complexes of 4-hydroxy-pyridine-2,6-dicarboxylic acid with PPh3/AsPh3 as co-ligand: Impact of oxidation state and co-ligands on anticancer activity in vitro. Dalton Transactions, 2012, 41, 2066-2077.	3.3	103
24	Mixed ligand palladium(ii) complexes of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde 4N-substituted thiosemicarbazones with triphenylphosphine co-ligand: Synthesis, crystal structure and biological properties. Dalton Transactions, 2012, 41, 13308.	3.3	94
25	Copper Ion Mediated Selective Cleavage of Câ€“S Bond in Ferrocenylthiosemicarbazone Forming Mixed Geometrical [(PPh₃)Cu(i¼-S)₂Cu(PPh₃)₂] Having Cu₂S₂ Core: Toward a New Avenue in Copperâ€“Sulfur Chemistry. Inorganic Chemistry, 2012, 51, 3525-3532.	4.0	29
26	Evaluation on the role of terminal N-substitution in 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the biological properties of new water-soluble nickel(ii) complexes. RSC Advances, 2012, 2, 8515.	3.6	44
27	Synthesis, X-ray crystal structure, DNA binding, antioxidant and cytotoxicity studies of Ni(<scp>ii</scp>) and Pd(<scp>ii</scp>) thiosemicarbazone complexes. Metallomics, 2012, 4, 218-227.	2.4	53
28	DNA binding, protein interaction, radical scavenging and cytotoxic activity of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde(2â€²-hydroxybenzoyl)hydrazone and its Cu(II) complexes: A structure activity relationship study. Inorganica Chimica Acta, 2012, 385, 81-93.	2.4	53
29	Synthesis, characterization, crystal structure and DNA binding studies of Pd(II) complexes containing thiosemicarbazone and triphenylphosphine/triphenylarsine. Inorganica Chimica Acta, 2012, 385, 94-99.	2.4	50
30	Synthesis, crystal structure and pharmacological evaluation of two new Cu(II) complexes of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (benzoyl) hydrazone: A comparative investigation. European Journal of Medicinal Chemistry, 2012, 47, 73-85.	5.5	77
31	Evaluation of DNA binding, antioxidant and cytotoxic activity of mononuclear Co(III) complexes of 2-oxo-1,2-dihydrobenzo[h]quinoline-3-carbaldehyde thiosemicarbazones. European Journal of Medicinal Chemistry, 2012, 50, 405-415.	5.5	78
32	Novel binuclear palladium(II) complexes of 2-oxoquinoline-3-carbaldehyde Schiff bases: Synthesis, structure and catalytic applications. Polyhedron, 2012, 34, 143-148.	2.2	21
33	Structureâ€“activity relationship study of copper(II) complexes with 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (4â€²-methylbenzoyl) hydrazone: synthesis, structures, DNA and protein interaction studies, antioxidative and cytotoxic activity. Journal of Biological Inorganic Chemistry, 2012, 17, 223-237.	2.6	78
34	Effect of N(4)-Phenyl Substitution in 2-Oxo-1,2-dihydroquinoline-3-carbaldehyde Semicarbazones on the Structure, DNA/Protein Interaction, and Antioxidative and Cytotoxic Activity of Cu(II) Complexes. Inorganic Chemistry, 2011, 50, 12852-12866.	4.0	187
35	Effect of terminal N-substitution in 2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the mode of coordination, structure, interaction with protein, radical scavenging and cytotoxic activity of copper(ii) complexes. Dalton Transactions, 2011, 40, 4548.	3.3	161
36	Biological evaluation of a novel water soluble sulphur bridged binuclear copper(II) thiosemicarbazone complex. European Journal of Medicinal Chemistry, 2011, 46, 4584-4594.	5.5	185

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37	Can geometry control the coordination behaviour of 2-hydroxy-1-naphthaldehyde-N(4)-phenylthiosemicarbazone? A study towards its origin. Inorganica Chimica Acta, 2011, 376, 317-324.	2.4	46
38	Ru(III) complexes containing 3,5-pyrazole dicarboxylic acid and triphenylphosphine/triphenylarsine: Synthesis, characterization and catalytic activity. Polyhedron, 2011, 30, 1108-1113.	2.2	5
39	New Ru(II)â€“DMSO complexes of ON/SN chelates: Synthesis, behavior of Schiff bases towards hydrolytic cleavage of CN bond, electrochemistry and biological activities. Polyhedron, 2010, 29, 3363-3371.	2.2	38
40	Synthesis, characterization, crystal structures and DNA binding studies of nickel(II) hydrazone complexes. Inorganica Chimica Acta, 2010, 363, 3685-3693.	2.4	62
41	Synthesis, characterization, DNA binding and cleavage studies of Ru(II) complexes containing oxime ligands. Journal of Molecular Structure, 2010, 984, 30-38.	3.6	25
42	Ru(II)â€“DMSO complexes containing aromatic and heterocyclic acid hydrazides: Structure, electrochemistry and biological activity. Polyhedron, 2009, 28, 1532-1540.	2.2	33
43	Synthesis, characterization and crystal structures of cyclometallated Ru(II) carbonyl complexes formed by hydrazones. Polyhedron, 2008, 27, 1573-1580.	2.2	20
44	New Ru(II)â€“dmso complexes with heterocyclic hydrazone ligands towards cancer chemotherapy. Polyhedron, 2008, 27, 1917-1924.	2.2	34
45	Dimethyl sulfoxide ruthenium(II) complexes of thiosemicarbazones and semicarbazone: Synthesis, characterization and biological studies. Polyhedron, 2008, 27, 2743-2750.	2.2	43
46	Novel Ru(II) oximato complexes with silent oxygen atom: Synthesis, chemistry and biological activities. Inorganica Chimica Acta, 2008, 361, 2841-2850.	2.4	31
47	Formation of unusual ruthenium(III) carbonyl complex through ONS tricoordination of salicylaldehyde-N-phenylthiosemicarbazone. Inorganica Chimica Acta, 2007, 360, 691-694.	2.4	34
48	Hydrolytic cleavage of Schiff bases by [RuCl2(DMSO)4]. Polyhedron, 2007, 26, 4314-4320.	2.2	29
49	Carbonyl(5-carboxypyridine-2-carboxylato-Î²2N,O2)chlorobis(triphenylphosphine-Î²P)ruthenium(II) 0.345-hydrate benzene sesquisolvate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m135-m137.	0.2	0
50	Synthesis, EPR, electrochemistry and EXAFS studies of ruthenium(III) complexes with a symmetrical tetradentate N2O2 Schiff base. Inorganica Chimica Acta, 2006, 359, 1114-1120.	2.4	13
51	X-ray crystallographic investigation and biological activities of Ru(III) complexes containing Schiff base and triphenyl phosphine/arsine. Inorganica Chimica Acta, 2006, 359, 3359-3362.	2.4	21
52	Ruthenium(III) complexes of dipicolinic acid with PPh3/AsPh3 as co-ligand: Synthesis and structural characterization. Polyhedron, 2006, 25, 2223-2228.	2.2	27
53	Reactions of ketones with coordinated nitriles on Î²-diketonato ruthenium complexes leading to formation of compounds with new carbonâ€“carbon bonds. Inorganica Chimica Acta, 2005, 358, 2207-2216.	2.4	13
54	Synthesis, characterization and catalytic studies of ruthenium(II) Schiff base complexes. Transition Metal Chemistry, 2005, 30, 330-333.	1.4	4

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55	Synthesis, characterization and catalytic studies of iron(III), cobalt(II), nickel(II) and copper(II) complexes containing triphenylphosphine and Î²-diketones. Transition Metal Chemistry, 2005, 30, 433-438.	1.4	16
56	Ru/Al2O3-catalyzed transfer dehydrogenation of alcohols. Reaction Kinetics and Catalysis Letters, 2005, 86, 211-216.	0.6	15
57	Pentamethylcyclopentadienylruthenium(II) Complexes: Synthesis, Characterization and Catalytic Activity in Arylâ€“Aryl Coupling. Transition Metal Chemistry, 2004, 29, 376-379.	1.4	6
58	Synthesis, Characterisation and Catalytic Studies of Iron(III), Cobalt(II), Nickel(II) and Copper(II) Complexes Containing N,O Donor Ligands and Triphenylphosphine. Transition Metal Chemistry, 2004, 29, 511-515.	1.4	11
59	Ruthenium(II) complexes containing triphenylphosphine/triphenylarsine and bidentate Schiff bases derived from 2-hydroxy-1-naphthaldehyde and primary amines. Transition Metal Chemistry, 2004, 29, 644-648.	1.4	8
60	Synthesis, Characterization, and Detailed Electrochemistry of Binuclear Ruthenium(III) Complexes Bridged by Bisacetylacetonate. Crystal and Molecular Structures of [{Ru(acac)2}2(tae)] (acac =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 6215-6223.	4.0	68
61	Reaction of Acetone on Coodinated Nitrile in Î²-Diketonato Ruthenium Complex, [Ru(acac)2(CH3CN)2] with the formation of Î²-Ketiminate. Chemistry Letters, 2003, 32, 874-875.	1.3	13
62	Synthetic, catalytic and biological studies of new binuclear ruthenium(II) complexes containing thiobis(Î²-diketones) and triphenylphosphine. Polyhedron, 2002, 21, 1721-1727.	2.2	46
63	Ruthenium(II) carbonyl complexes with tridentate Schiff bases and their antibacterial activity. Transition Metal Chemistry, 2002, 27, 75-79.	1.4	102
64	Antibacterial activity of ruthenium(II) carbonyl complexes containing tetradentate Schiff bases. Transition Metal Chemistry, 2002, 27, 485-489.	1.4	26
65	Title is missing!. Transition Metal Chemistry, 2002, 27, 631-638.	1.4	35
66	Title is missing!. Transition Metal Chemistry, 2002, 27, 574-579.	1.4	35
67	Catalytic and antimicrobial activities of new ruthenium(II) unsymmetrical Schiff base complexes. Transition Metal Chemistry, 2002, 27, 790-794.	1.4	50
68	Ruthenium(II) carbonyl complexes containing tridentate Schiff bases. Transition Metal Chemistry, 2002, 27, 840-843.	1.4	6
69	Title is missing!. Transition Metal Chemistry, 2001, 26, 500-504.	1.4	62
70	Title is missing!. Transition Metal Chemistry, 2001, 26, 717-722.	1.4	33
71	Ruthenium(II) complexes containing bidentate Schiff bases and their antifungal activity. Transition Metal Chemistry, 2001, 26, 105-109.	1.4	553
72	Title is missing!. Transition Metal Chemistry, 2000, 25, 311-314.	1.4	22

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73	Title is missing!. Transition Metal Chemistry, 1999, 24, 638-641.	1.4	27
74	Title is missing!. Transition Metal Chemistry, 1998, 23, 337-341.	1.4	34
75	Ruthenium(II) carbonyl complexes containing tetradentate Schiffbases. Transition Metal Chemistry, 1998, 23, 129-132.	1.4	5
76	Synthesis and Characterization of Sulfur-Bridged Binuclear Î²-Diketonatoruthenium Complexes and a Monomeric Ruthenium Complex. Crystal and Molecular Structures of Racemic and Meso Isomers of [Ru(acac)2(Î¼-topd-O,S,Oâ€˜)Ru(acac)2] (acac = Acetylacetonato and topd = 3-Thioxo-2,4-pentanedione). Inorganic Chemistry, 1998, 37, 5211-5220.	4.0	33
77	Syntheses and characterisation of [Os3(CO)11(PRH2)], [(Î¼2-H)Os3(CO)10(Î¼2-PRH)] (R = C6H5, p-CH3OC6H4,) Tj ETQq1 1 0.784 phosphido ligands. Crystal and molecular structures of [(Î¼2-H)Os3(CO)10(Î¼2-P(C6H5)H)] and [(Î¼2-H)2Os3(CO)9(Î¼3-PC6H5)]. Journal of Organometallic Chemistry, 1981, 220, 365-381.	1.8	60
78	Rî—¸P and Rî—¸As bridged ruthenium carbonyl hydrides and related clusters. Crystal and molecular structure of [(Î¼2-H)2Ru3(CO)9(Î¼3-P(p-CH3OC6H4))]. Journal of Organometallic Chemistry, 1981, 221, 301-308.	1.8	35
79	Synthesis and Structures of four Mono(organo)phosphido-bridged pentaruthenium carbonyl		