

Natarajan Karuppanan

List of Publications by Year in descending order

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79
papers

3,591
citations

126907

33
h-index

138484

58
g-index

80
all docs

80
docs citations

80
times ranked

3313
citing authors

#	ARTICLE	IF	CITATIONS
1	Ruthenium(II) complexes containing bidentate Schiff bases and their antifungal activity. <i>Transition Metal Chemistry</i> , 2001, 26, 105-109.	1.4	553
2	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. <i>Inorganic Chemistry</i> , 2011, 50, 12852-12866.	4.0	187
3	Biological evaluation of a novel water soluble sulphur bridged binuclear copper(II) thiosemicarbazone complex. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4584-4594.	5.5	185
4	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. <i>Dalton Transactions</i> , 2011, 40, 4548.	3.3	161
5	Ruthenium(II)/(III) complexes of 4-hydroxy-pyridine-2,6-dicarboxylic acid with PPh ₃ /AsPh ₃ as co-ligand: Impact of oxidation state and co-ligands on anticancer activity in vitro. <i>Dalton Transactions</i> , 2012, 41, 2066-2077.	3.3	103
6	Ruthenium(II) carbonyl complexes with tridentate Schiff bases and their antibacterial activity. <i>Transition Metal Chemistry</i> , 2002, 27, 75-79.	1.4	102
7	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. <i>Dalton Transactions</i> , 2012, 41, 13308.	3.3	94
8	Synthesis, structure and in vitro pharmacological evaluation of a novel 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (2- ϵ -methylbenzoyl) hydrazone bridged copper(II) coordination polymer. <i>European Journal of Medicinal Chemistry</i> , 2013, 64, 148-159.	5.5	84
9	Evaluation of DNA binding, antioxidant and cytotoxic activity of mononuclear Co(III) complexes of 2-oxo-1,2-dihydrobenzo[h]quinoline-3-carbaldehyde thiosemicarbazones. <i>European Journal of Medicinal Chemistry</i> , 2012, 50, 405-415.	5.5	78
10	Structure-activity relationship study of copper(II) complexes with 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (4- ϵ -methylbenzoyl) hydrazone: synthesis, structures, DNA and protein interaction studies, antioxidative and cytotoxic activity. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 223-237.	2.6	78
11	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. <i>European Journal of Medicinal Chemistry</i> , 2012, 47, 73-85.	5.5	77
12	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. <i>Inorganic Chemistry</i> , 2013, 52, 1504-1514.	4.0	76
13	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 ETQq1 1 0.784314 rgBT /Overlock 68 6215-6223.	4.0	68
14	Title is missing!. <i>Transition Metal Chemistry</i> , 2001, 26, 500-504.	1.4	62
15	Synthesis, characterization, crystal structures and DNA binding studies of nickel(II) hydrazone complexes. <i>Inorganica Chimica Acta</i> , 2010, 363, 3685-3693.	2.4	62
16	Syntheses and characterisation of [Os ₃ (CO) ₁₁ (PRH ₂)], [(1/2-H)Os ₃ (CO) ₁₀ (1/2-PRH)] (R = C ₆ H ₅ , p-CH ₃ OC ₆ H ₄), Tj ETQq0 0 0 rgBT / phosphido ligands. Crystal and molecular structures of [(1/2-H)Os ₃ (CO) ₁₀ (1/2-P(C ₆ H ₅)H)] and [(1/2-H)Os ₃ (CO) ₉ (1/3-PC ₆ H ₅)]. <i>Journal of Organometallic Chemistry</i> , 1981, 220, 365-381.	1.8	60
17	Influence of carboxylic acid functionalities in ruthenium (II) polypyridyl complexes on DNA binding, cytotoxicity and antioxidant activity: Synthesis, structure and in vitro anticancer activity. <i>European Journal of Medicinal Chemistry</i> , 2013, 59, 253-264.	5.5	54
18	Synthesis, X-ray crystal structure, DNA binding, antioxidant and cytotoxicity studies of Ni(II) and Pd(II) thiosemicarbazone complexes. <i>Metallomics</i> , 2012, 4, 218-227.	2.4	53

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19	DNA binding, protein interaction, radical scavenging and cytotoxic activity of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde(α^2 -hydroxybenzoyl)hydrazone and its Cu(II) complexes: A structure activity relationship study. <i>Inorganica Chimica Acta</i> , 2012, 385, 81-93.	2.4	53
20	Catalytic and antimicrobial activities of new ruthenium(II) unsymmetrical Schiff base complexes. <i>Transition Metal Chemistry</i> , 2002, 27, 790-794.	1.4	50
21	Synthesis, characterization, crystal structure and DNA binding studies of Pd(II) complexes containing thiosemicarbazone and triphenylphosphine/triphenylarsine. <i>Inorganica Chimica Acta</i> , 2012, 385, 94-99.	2.4	50
22	Synthetic, catalytic and biological studies of new binuclear ruthenium(II) complexes containing thiobis(β^2 -diketones) and triphenylphosphine. <i>Polyhedron</i> , 2002, 21, 1721-1727.	2.2	46
23	Can geometry control the coordination behaviour of 2-hydroxy-1-naphthaldehyde-N(4)-phenylthiosemicarbazone? A study towards its origin. <i>Inorganica Chimica Acta</i> , 2011, 376, 317-324.	2.4	46
24	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. <i>RSC Advances</i> , 2012, 2, 8515.	3.6	44
25	Dimethyl sulfoxide ruthenium(II) complexes of thiosemicarbazones and semicarbazone: Synthesis, characterization and biological studies. <i>Polyhedron</i> , 2008, 27, 2743-2750.	2.2	43
26	Synthesis and Structures of four Mono(organo)phosphido-bridged pentaruthenium carbonyl		

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37	Ru(II)â€™DMSO complexes containing aromatic and heterocyclic acid hydrazides: Structure, electrochemistry and biological activity. <i>Polyhedron</i> , 2009, 28, 1532-1540.	2.2	33
38	N-substitution in isatin thiosemicarbazones decides nuclearity of Cu(II) complexes â€™ Spectroscopic, molecular docking and cytotoxic studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 118963.	3.9	33
39	Novel Ru(II) oximato complexes with silent oxygen atom: Synthesis, chemistry and biological activities. <i>Inorganica Chimica Acta</i> , 2008, 361, 2841-2850.	2.4	31
40	Hydrolytic cleavage of Schiff bases by [RuCl ₂ (DMSO) ₄]. <i>Polyhedron</i> , 2007, 26, 4314-4320.	2.2	29
41	Copper Ion Mediated Selective Cleavage of Câ€™S Bond in Ferrocenylthiosemicarbazone Forming Mixed Geometrical [(PPh ₃) ₃ Cu(Î¼ ⁴ -S) ₂ Cu(PPh ₃) ₃] Having Cu ₂ S ₂ Core: Toward a New Avenue in Copperâ€™Sulfur Chemistry. <i>Inorganic Chemistry</i> , 2012, 51, 3525-3532.	4.0	29
42	New organometallic ruthenium(ii) complexes containing chelidonic acid (4-oxo-4H-pyran-2,6-dicarboxylic acid): synthesis, structure and in vitro biological activity. <i>RSC Advances</i> , 2014, 4, 2004-2022.	3.6	28
43	Title is missing!. <i>Transition Metal Chemistry</i> , 1999, 24, 638-641.	1.4	27
44	Ruthenium(III) complexes of dipicolinic acid with PPh ₃ /AsPh ₃ as co-ligand: Synthesis and structural characterization. <i>Polyhedron</i> , 2006, 25, 2223-2228.	2.2	27
45	Antibacterial activity of ruthenium(II) carbonyl complexes containing tetradentate Schiff bases. <i>Transition Metal Chemistry</i> , 2002, 27, 485-489.	1.4	26
46	Fluorescence sensing response of zinc(II) and pyrophosphate ions by benzoxazole appended dipodal Schiff base. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 370, 75-83.	3.9	26
47	Synthesis, characterization, DNA binding and cleavage studies of Ru(II) complexes containing oxime ligands. <i>Journal of Molecular Structure</i> , 2010, 984, 30-38.	3.6	25
48	The effect of incorporating carboxylic acid functionalities into 2,2â€™-bipyridine on the biological activity of the complexes formed: synthesis, structure, DNA/protein interaction, antioxidant activity and cytotoxicity. <i>RSC Advances</i> , 2017, 7, 16428-16443.	3.6	25
49	Synthesis, characterization and biological studies of a novel Cu(II) Schiff base complex. <i>Inorganica Chimica Acta</i> , 2018, 473, 255-262.	2.4	25
50	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. <i>Journal of Inorganic Biochemistry</i> , 2016, 155, 1-8.	3.5	24
51	Title is missing!. <i>Transition Metal Chemistry</i> , 2000, 25, 311-314.	1.4	22
52	X-ray crystallographic investigation and biological activities of Ru(III) complexes containing Schiff base and triphenyl phosphine/arsine. <i>Inorganica Chimica Acta</i> , 2006, 359, 3359-3362.	2.4	21
53	Novel binuclear palladium(II) complexes of 2-oxoquinoline-3-carbaldehyde Schiff bases: Synthesis, structure and catalytic applications. <i>Polyhedron</i> , 2012, 34, 143-148.	2.2	21
54	Synthesis, characterization and crystal structures of cyclometallated Ru(II) carbonyl complexes formed by hydrazones. <i>Polyhedron</i> , 2008, 27, 1573-1580.	2.2	20

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55	Quinoline based Pd(II) complexes: Synthesis, characterization and evaluation of DNA/protein binding, molecular docking and in vitro anticancer activity. <i>Inorganica Chimica Acta</i> , 2018, 482, 229-239.	2.4	18
56	Synthesis, Characterization and Biological Activity of Novel Cu(II) Complexes of 6-Methyl-2-Oxo-1,2-Dihydroquinoline-3-Carbaldehyde-4n-Substituted Thiosemicarbazones. <i>Molecules</i> , 2020, 25, 1868.	3.8	18
57	Synthesis, characterization and catalytic studies of iron(III), cobalt(II), nickel(II) and copper(II) complexes containing triphenylphosphine and β^2 -diketones. <i>Transition Metal Chemistry</i> , 2005, 30, 433-438.	1.4	16
58	Synthesis, characterization and in vitro pharmacological evaluation of new water soluble Ni(II) complexes of 4N-substituted thiosemicarbazones of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde. <i>European Journal of Medicinal Chemistry</i> , 2013, 64, 179-189.	5.5	16
59	Ru/Al ₂ O ₃ -catalyzed transfer dehydrogenation of alcohols. <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 86, 211-216.	0.6	15
60	Synthesis, spectral characterization, antioxidant, anticancer <i>in vitro</i> , and DNA cleavage studies of a series of ruthenium(II) complexes bearing Schiff base ligands. <i>Journal of Coordination Chemistry</i> , 2013, 66, 4052-4066.	2.2	15
61	Ruthenium(II) complexes of 2,2'-bipyridine-5,5'-dicarboxylic acid: Synthesis, structure, DNA binding, cytotoxicity and antioxidant activity. <i>Inorganica Chimica Acta</i> , 2013, 404, 58-67.	2.4	14
62	Reaction of Acetone on Coordinated Nitrile in β^2 -Diketonato Ruthenium Complex, [Ru(acac) ₂ (CH ₃ CN) ₂] with the formation of β^2 -Ketiminato. <i>Chemistry Letters</i> , 2003, 32, 874-875.	1.3	13
63	Reactions of ketones with coordinated nitriles on β^2 -diketonato ruthenium complexes leading to formation of compounds with new carbon-carbon bonds. <i>Inorganica Chimica Acta</i> , 2005, 358, 2207-2216.	2.4	13
64	Synthesis, EPR, electrochemistry and EXAFS studies of ruthenium(III) complexes with a symmetrical tetradentate N ₂ O ₂ Schiff base. <i>Inorganica Chimica Acta</i> , 2006, 359, 1114-1120.	2.4	13
65	Near-Infrared-Absorbing Organometallic Diruthenium Complex Intermediates: Evidence for Bridging Anthrasediimine Formation and against Mixed Valency. <i>Chemistry - A European Journal</i> , 2017, 23, 17810-17816.	3.3	12
66	Synthesis, Characterisation and Catalytic Studies of Iron(III), Cobalt(II), Nickel(II) and Copper(II) Complexes Containing N,O Donor Ligands and Triphenylphosphine. <i>Transition Metal Chemistry</i> , 2004, 29, 511-515.	1.4	11
67	Spectral characterization of a pteridine derivative from cyanide-utilizing bacterium <i>Bacillus subtilis</i> - JN989651. <i>Journal of Microbiology</i> , 2015, 53, 262-271.	2.8	10
68	Bis(μ -chloro) bridged 1D Cu I and Cu II coordination polymer complex and mononuclear Cu II complex: Synthesis, crystal structure and biological properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 181, 59-69.	3.8	10
69	ONO pincer-type palladium(II) complexes of heterocyclic hydrazone: Synthesis, characterization and biological evaluation. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4403.	3.5	10
70	Ruthenium(II) complexes containing triphenylphosphine/triphenylarsine and bidentate Schiff bases derived from 2-hydroxy-1-naphthaldehyde and primary amines. <i>Transition Metal Chemistry</i> , 2004, 29, 644-648.	1.4	8
71	Impact of chelation on anticancer activities of organometallic ruthenium(II) complexes containing 2,5-di(1H-pyrazol-1-yl)-1,4-benzoquinone: synthesis, structure, DNA/protein binding, antioxidant activity and cytotoxicity. <i>RSC Advances</i> , 2016, 6, 46531-46547.	3.6	8
72	Novel water soluble bis(μ -chloro) bridged Cu(II) binuclear and mononuclear complexes: Synthesis, characterization and biological evaluation. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4111.	3.5	7

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73	Ruthenium(II) carbonyl complexes containing tridentate Schiff bases. <i>Transition Metal Chemistry</i> , 2002, 27, 840-843.	1.4	6
74	Pentamethylcyclopentadienylruthenium(II) Complexes: Synthesis, Characterization and Catalytic Activity in Aryl-Aryl Coupling. <i>Transition Metal Chemistry</i> , 2004, 29, 376-379.	1.4	6
75	Ruthenium(II) carbonyl complexes containing tetradentate Schiffbases. <i>Transition Metal Chemistry</i> , 1998, 23, 129-132.	1.4	5
76	Ru(III) complexes containing 3,5-pyrazole dicarboxylic acid and triphenylphosphine/triphenylarsine: Synthesis, characterization and catalytic activity. <i>Polyhedron</i> , 2011, 30, 1108-1113.	2.2	5
77	Synthesis, characterization and catalytic studies of ruthenium(II) Schiff base complexes. <i>Transition Metal Chemistry</i> , 2005, 30, 330-333.	1.4	4
78	Hydrazone complexes of ruthenium(II): Synthesis, crystal structures and catalytic applications in N-alkylation reactions. <i>Journal of Organometallic Chemistry</i> , 2020, 923, 121411.	1.8	4
79	Carbonyl(5-carboxypyridine-2-carboxylato- η^2 N,O2)chlorobis(triphenylphosphine- η^3 P)ruthenium(II) 0.345-hydrate benzene sesquisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m135-m137.	0.2	0