

Rajagopal Gurusamy

List of Publications by Year in descending order

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91
papers

1,835
citations

218592

26
h-index

302012

39
g-index

98
all docs

98
docs citations

98
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and spectral characterization of Schiff base complexes of Cu(II), Co(II), Zn(II) and VO(IV) containing 4-(4-aminophenyl)morpholine derivatives: Antimicrobial evaluation and anticancer studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 87-94.	2.0	117
2	Schiff base complexes of rare earth metal ions: Synthesis, characterization and catalytic activity for the oxidation of aniline and substituted anilines. <i>Journal of Organometallic Chemistry</i> , 2014, 753, 72-80.	0.8	75
3	Synthesis, spectroscopic characterization and antibacterial studies of lanthanide(III) Schiff base complexes containing N, O donor atoms. <i>Journal of Molecular Structure</i> , 2014, 1056-1057, 307-313.	1.8	73
4	A reversible fluorescent chemosensor for the rapid detection of Hg ²⁺ in an aqueous solution: Its logic gates behavior. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 305-315.	4.0	73
5	Title is missing!. <i>Transition Metal Chemistry</i> , 2001, 26, 588-593.	0.7	72
6	Synthesis, spectroscopic and redox behaviour of copper(II), nickel(II) and cobalt(II) complexes of some macrocyclic multidentates. <i>Polyhedron</i> , 1996, 15, 527-534.	1.0	56
7	Crystal structure, optical properties, DFT analysis of new morpholine based Schiff base ligands and their copper(II) complexes: DNA, protein docking analyses, antibacterial study and anticancer evaluation. <i>Materials Science and Engineering C</i> , 2018, 90, 119-130.	3.8	50
8	Mild and efficient silylcyanation of ketones catalyzed by cesium fluoride. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 1734-1738.	0.8	46
9	<p>ROS-Responsive Chitosan Coated Magnetic Iron Oxide Nanoparticles as Potential Vehicles for Targeted Drug Delivery in Cancer Therapy<p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 3333-3346.	3.3	43
10	Title is missing!. <i>Transition Metal Chemistry</i> , 2000, 25, 388-393.	0.7	39
11	Synthesis of Î±-aryl nitriles through B(C ₆ F ₅) ₃ -catalyzed direct cyanation of Î±-aryl alcohols and thiols. <i>Tetrahedron</i> , 2009, 65, 4351-4355.	1.0	39
12	Synthesis, spectra and DNA interactions of certain mononuclear transition metal(II) complexes of macrocyclic tetraaza diacetyl curcumin ligand. <i>Journal of Molecular Structure</i> , 2012, 1010, 169-178.	1.8	38
13	Title is missing!. <i>Transition Metal Chemistry</i> , 1997, 22, 84-88.	0.7	36
14	Niobium Fluoride (NbF ₅): A Highly Efficient Catalyst for Solvent-Free Cyanosilylation of Aldehydes. <i>Synthesis</i> , 2007, 2007, 215-218.	1.2	36
15	Poly(ethylene glycol) (PEG) as an efficient and recyclable reaction medium for the synthesis of dibenz[b,f]-1,4-oxazepine. <i>Tetrahedron Letters</i> , 2008, 49, 1495-1497.	0.7	36
16	Synthesis, characterization, structural analysis and DNA binding studies of nickel(II)â€“triphenylphosphine complex of ONS donor ligand â€“ Multisubstituted thiosemicarbazone as highly selective sensor for fluoride ion. <i>Polyhedron</i> , 2013, 59, 58-68.	1.0	34
17	Mild and Efficient Silylcyanation of Ketones Catalyzed by N-Methylmorpholine N-Oxide. <i>Synthesis</i> , 2004, 2004, 213-216.	1.2	33
18	Analytical methods to determine the comparative DNA binding studies of curcuminâ€“Cu(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 223-230.	2.0	33

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19	Asymmetric Henry reaction of aldehydes catalyzed by recyclable an MCM-41 supported copper(II) salen complex. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 857-865.	1.8	32
20	Structural analysis, antimicrobial and cytotoxic studies on new metal(II) complexes containing N2O2 donor Schiff base ligand. <i>Journal of Molecular Structure</i> , 2019, 1183, 342-350.	1.8	32
21	A novel curcumin-loaded PLGA micromagnetic composite system for controlled and pH-responsive drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 573, 188-195.	2.3	32
22	Iron oxide nanoparticle core-shell magnetic microspheres: Applications toward targeted drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102134.	1.7	32
23	Nafion® SAC-13: heterogeneous and reusable catalyst for the activation of HMDS for efficient and selective O-silylation reactions under solvent-free condition. <i>Tetrahedron</i> , 2009, 65, 4735-4741.	1.0	31
24	Synthesis and spectral studies of copper(II), nickel(II) and cobalt(II) complexes of 2-hydroxy-4-X-cinnamoyl acetophenones and their pyridine adducts. <i>Transition Metal Chemistry</i> , 1995, 20, 356-360.	0.7	30
25	New heteroleptic Zn(II) complexes of thiosemicarbazone and diimine Co-Ligands: Structural analysis and their biological impacts. <i>Journal of Molecular Structure</i> , 2018, 1153, 1-11.	1.8	29
26	Synthesis, biological evaluation, molecular docking, molecular dynamics and DFT studies of quinoline-fluoroproline amide hybrids. <i>Journal of Molecular Structure</i> , 2020, 1217, 128360.	1.8	29
27	A quinoline based Schiff base as a turn-on fluorescence chemosensor for selective and robust detection of Cd ²⁺ ion in semi-aqueous medium. <i>Microchemical Journal</i> , 2021, 164, 106030.	2.3	29
28	N-Methylmorpholine N-Oxide: A Rare Nonmetallic Catalyst for the Most Efficient Silylcyanation of Aldehydes. <i>Synthetic Communications</i> , 2004, 34, 2973-2980.	1.1	27
29	Efficient Aerobic Oxidation of Alcohols to Carbonyl Compounds with NHPI/CAN Catalytic System. <i>Synthetic Communications</i> , 2004, 34, 2237-2243.	1.1	27
30	Natural alkaloid Luotonin A and its affixed acceptor molecules: Serum albumin binding studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 499-507.	1.7	27
31	Solvent-free cyanosilylation of ketones with (CH ₃) ₃ SiCN (TMSCN) catalyzed by NbF ₅ . <i>Applied Organometallic Chemistry</i> , 2007, 21, 368-372.	1.7	25
32	Synthesis, spectral, electrochemical and catalytic properties of Cu(II), Ni(II) and Co(II) complexes containing N, O donors. <i>Journal of Molecular Catalysis A</i> , 2009, 303, 52-59.	4.8	25
33	A theranostic nanocomposite system based on iron oxide-drug nanocages for targeted magnetic field responsive chemotherapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1643-1654.	1.7	24
34	Synthesis, spectroscopic characterization, electrochemical behaviour and antibacterial activity of Ru(III) complexes of 2-[(4-N,N-dimethylaminophenylimino)-methyl]-4-halophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 796-800.	2.0	23
35	Synthesis, structural analysis and cytotoxic effect of copper(II)-thiosemicarbazone complexes having heterocyclic bases: A selective naked eye sensor for F ²⁺ and CN ⁻ . <i>Polyhedron</i> , 2015, 85, 830-840.	1.0	23
36	Efficient and Mild Oxidation of Sulfides to Sulfoxides by Iodosobenzene Catalyzed by Cr(salen) Complex. <i>Synthesis</i> , 2003, 2003, 2461-2463.	1.2	22

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37	Asymmetric cyanosilylation of ketones catalyzed by recyclable polymer-supported copper(II) salen complexes. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 2265-2270.	1.8	22
38	Aluminum phthalocyanine: an active and simple catalyst for cyanosilylation of aldehydes. <i>Applied Organometallic Chemistry</i> , 2007, 21, 198-202.	1.7	21
39	Biomolecular docking, antimicrobial and cytotoxic studies on new bidentate schiff base ligand derived metal (II) complexes. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4753.	1.7	21
40	Synthesis and spectral studies of copper(II), nickel(II), cobalt(II) and vanadyl(II) complexes of tridentate Schiff bases of 1,2,3,5,6,7,8,8a-octahydro-3-oxo-N,1-diphenyl-5-(phenylmethylene)-2-naphthalenecarboxamide. <i>Transition Metal Chemistry</i> , 1995, 20, 472-476.	0.7	19
41	<i>In vitro</i> antimicrobial and antioxidant evaluation of rare earth metal Schiff base complexes derived from threonine. <i>Applied Organometallic Chemistry</i> , 2015, 29, 90-95.	1.7	18
42	New anthracene based Schiff base ligands appended Cu(II) complexes: Theoretical study, DNA binding and cleavage activities. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4128.	1.7	18
43	Design and development of 5-fluorouracil loaded biodegradable magnetic microspheres as site-specific drug delivery vehicle for cancer therapy. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168853.	1.0	18
44	Title is missing!. <i>Transition Metal Chemistry</i> , 1997, 22, 167-171.	0.7	17
45	Synthesis, physicochemical characterization and structural studies of new Schiff base ligand and its metal (II) complexes: <i>In silico</i> molecular docking analysis, antimicrobial activity and cytotoxicity. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4538.	1.7	17
46	Reactive oxygen species (ROS)-responsive microspheres for targeted drug delivery of camptothecin. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 52, 722-729.	1.4	17
47	Cyanosilylation of carbonyl compounds catalyzed by sodiumL-histidine. <i>Applied Organometallic Chemistry</i> , 2007, 21, 798-803.	1.7	16
48	Synthesis, spectral, electrochemical and catalytic properties of Ru(III) Schiff base complexes containing N, O donors. <i>Journal of Molecular Structure</i> , 2014, 1060, 49-57.	1.8	16
49	Ruthenium(II)/(III) complexes of bidentate acetyl hydrazide Schiff bases. <i>Transition Metal Chemistry</i> , 2001, 26, 652-656.	0.7	15
50	Synthesis, characterization, structural analysis of metal(II) complexes of $N^{\ominus}[(E)-3-Bromo-5-Chloro-2-hydroxybenzidine]-4-hydroxybenzohydrazide$ Multisubstituted Schiff base as a F^{\ominus} and Cu^{2+} ions selective chemosensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 509-518.	2.0	14
51	Bidentate Schiff Base Ligands Appended Metal(II) Complexes as Probes of DNA and Plasma Protein: <i>In Silico</i> Molecular Modelling Studies. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1515-1532.	1.4	14
52	Synthesis, structural, spectral, electrochemical and catalytic properties of VO (IV) complexes containing N, O donors. <i>Journal of Molecular Structure</i> , 2014, 1075, 227-233.	1.8	13
53	Synthesis, characterization, crystal structure and cytotoxic properties of thiosemicarbazide Ni(II) and Zn(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 292-302.	2.0	13
54	DNA interaction and cleavage studies of ancillary chiral ligand and N,N-donor ligands coordinated platinum(II) complexes. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3868.	1.7	13

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55	Asymmetric Cyanosilylation of Aldehydes by Chiral Ti-TADDOL Complex. Bulletin of the Korean Chemical Society, 2006, 27, 1638-1640.	1.0	13
56	Ternary Copper (II) complex based chemical probes for DNA targeting: Cytotoxic activity under visible light. Applied Organometallic Chemistry, 2019, 33, e4762.	1.7	11
57	Synthesis, growth, characterization, structure and molecular docking studies of 1-[(E)-{[4-(morpholin-4-yl)phenyl]imino} methyl]naphthalen-2-ol single crystal: A potential antimicrobial agent. Journal of Molecular Structure, 2014, 1065-1066, 21-28.	1.8	9
58	Synthesis, structure, DNA/protein molecular docking and biological studies of hydrazone ligand derived Cu(II) and VO(IV) complexes. Inorganica Chimica Acta, 2021, 526, 120543.	1.2	9
59	Aluminium Phthalocyanine: An Active and Simple Catalyst for Cyanosilylation of Ketones. Bulletin of the Korean Chemical Society, 2006, 27, 1907-1909.	1.0	9
60	Copper(II) and ruthenium(II)/(III) Schiff base complexes. Transition Metal Chemistry, 1999, 24, 251-257.	0.7	7
61	Synthesis, spectroscopic and crystal structure of nickel(II) complex of thiosemicarbazone based Schiff base: Antimicrobial, anticancer and molecular docking studies. Inorganic Chemistry Communication, 2021, 132, 108850.	1.8	7
62	2,4-Diiodo-6-{[4-(morpholin-4-yl)phenyl]iminomethyl}phenol. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2500-o2500.	0.2	6
63	2-Bromo-4-chloro-6-[(2,6-diisopropylphenyl)iminomethyl]phenol. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o2265-o2265.	0.2	6
64	Biological Impacts of Metal(II) Complexes Based DNA Probes Derived from Bidentate N,O Donor Schiff Base Ligand. Applied Biochemistry and Biotechnology, 2020, 190, 373-390.	1.4	5
65	Nâ€²-[(E)-2-Hydroxy-3,5-diiodobenzylidene]pyridine-3-carbohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2303-o2303.	0.2	5
66	(E)-Nâ€²-(3-Bromo-5-chloro-2-hydroxybenzylidene)nicotinohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2716-o2716.	0.2	3
67	Crystal structure of (<i>E</i>)-5-diethylamino-2-({[4-(dimethylamino)phenyl]imino}methyl)phenol. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o503-o503.	0.2	3
68	2-Bromo-4-chloro-6-(4-fluorophenyliminomethyl)phenol. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1333-o1333.	0.2	3
69	Synthesis and Structure of $\hat{1}^2$ -Ketoanilide Metal(II) Complexes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 1996, 26, 647-667.	1.8	2
70	2-Bromo-4-chloro-6-[(E)-[4-(diethylamino)phenyl]iminomethyl]phenol. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2422-o2422.	0.2	2
71	Quinolineâ€Proline, Triazole Hybrids: Design, Synthesis, Antituberculosis, Molecular Docking, and ADMET Studies. Journal of Heterocyclic Chemistry, 2021, 58, 952-968.	1.4	2
72	Nâ€²-[(1E)-4-Diethylamino-2-hydroxybenzidene]benzohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2633-o2633.	0.2	1

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73	4-[(<i>E</i>)-(4-Diethylamino-2-hydroxybenzylidene)amino]-1,5-dimethyl-2-phenyl-1 <i>H</i> -pyrazol-3(2 <i>H</i>)-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2692-o2692.	0.2	1
74	Efficient and Mild Oxidation of Sulfides to Sulfoxides by Iodosobenzene Catalyzed by Cr(salen) Complex.. ChemInform, 2004, 35, no.	0.1	0
75	Mild and Efficient Silylcyanation of Ketones Catalyzed by N-Methylmorpholine N-Oxide.. ChemInform, 2004, 35, no.	0.1	0
76	Mild and Efficient Silylcyanation of Ketones Catalyzed by Cesium Fluoride.. ChemInform, 2004, 35, no.	0.1	0
77	Efficient Aerobic Oxidation of Alcohols to Carbonyl Compounds with NHPI/CAN Catalytic System.. ChemInform, 2004, 35, no.	0.1	0
78	N-Methylmorpholine N-Oxide: A Rare Nonmetallic Catalyst for the Most Efficient Silylcyanation of Aldehydes.. ChemInform, 2005, 36, no.	0.1	0
79	Crystal Structure of 3-[1-(4-Bromophenylamino)ethylidene]-6-methylpyran-2,4-dione. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X295-X296.	0.1	0
80	2-[[4-(Diethylamino)phenyl]iminomethyl]-4,6-diiodophenol. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3089-o3089.	0.2	0
81	N ² -[(<i>E</i>)-2-Hydroxy-3,5-diiodobenzylidene]cyclohexane-1-carbohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2620-o2620.	0.2	0
82	5-Methoxy-2-[[4-(morpholin-4-yl)phenyl]iminomethyl]phenol. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2501-o2501.	0.2	0
83	N ² -[(1 <i>E</i>)-3-Bromo-5-chloro-2-hydroxybenzylidene]-4- <i>tert</i> -butylbenzohydrazide ethanol monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2857-o2857.	0.2	0
84	4-Chloro-2-[(2,6-diisopropylphenyl)iminomethyl]phenol. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o1721-o1721.	0.2	0
85	(<i>E</i>)-4-Bromo-2-[(2,6-diisopropylphenyl)iminomethyl]phenol. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o1782-o1782.	0.2	0
86	2-[(2,6-Diisopropylphenyl)iminomethyl]-4-iodophenol. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o1915-o1915.	0.2	0
87	N ² -[(<i>E</i>)-3-Bromo-5-chloro-2-hydroxybenzylidene]furan-2-carbohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o670-o670.	0.2	0
88	Crystal structure of 5-diethylamino-2-[[4-(diethylamino)phenyl]imino]methylphenol. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o712-o713.	0.2	0
89	Synthesis, Characterization and Biological Studies of Cu(II), Ni(II), Co(II) and VO(IV) Complexes of Tridentate ONO Donor with N'-[(<i>E</i>)-3-Bromo-5-chloro-2-hydroxybenzylidene]nicotinohydrazide. Asian Journal of Chemistry, 2016, 28, 1661-1666.	0.1	0
90	Synthesis, Characterization and Biological Activity of Zn(II) Complexes with Dibasic Tridentate ONS-Donor Ligand. Asian Journal of Chemistry, 2016, 28, 2487-2494.	0.1	0

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91	Crystal structure of [1-(3-ethoxy-2-oxidobenzylidene- \hat{O})-4-phenylthiosemicarbazidato- \hat{N}_1,S](triphenylphosphane- \hat{P})nickel(II). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m230-m231.	0.2	0