

Aziz Kalilur Rahiman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2789344/publications.pdf>

Version: 2024-02-01

77
papers

2,196
citations

257450

24
h-index

243625

44
g-index

79
all docs

79
docs citations

79
times ranked

2858
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of antioxidant and anticancer activity of copper oxide nanoparticles synthesized using medicinally important plant extracts. <i>Biomedicine and Pharmacotherapy</i> , 2017, 89, 1067-1077.	5.6	316
2	Garlic, green tea and turmeric extracts-mediated green synthesis of silver nanoparticles: Phytochemical, antioxidant and in vitro cytotoxicity studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 180, 243-252.	3.8	196
3	In vitro antioxidant and antidiabetic activities of zinc oxide nanoparticles synthesized using different plant extracts. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 943-957.	3.4	133
4	Synthesis, characterization, and antimicrobial activities of nickel(II) and copper(II) Schiff-base complexes. <i>Journal of Coordination Chemistry</i> , 2010, 63, 136-146.	2.2	88
5	Biosynthesis of Zinc Oxide Nanoparticles Using Plant Extracts of Aloe vera and Hibiscus sabdariffa: Phytochemical, Antibacterial, Antioxidant and Anti-proliferative Studies. <i>BioNanoScience</i> , 2017, 7, 530-545.	3.5	82
6	Targeting of DNA molecules, BSA/c-Met tyrosine kinase receptors and anti-proliferative activity of bis(terpyridine)copper(II) complexes. <i>Dalton Transactions</i> , 2016, 45, 7794-7814.	3.3	81
7	New pyridazine-based binuclear nickel(II), copper(II) and zinc(II) complexes as prospective anticancer agents. <i>New Journal of Chemistry</i> , 2016, 40, 2451-2465.	2.8	59
8	Copper complexes as prospective anticancer agents: in vitro and in vivo evaluation, selective targeting of cancer cells by DNA damage and S phase arrest. <i>RSC Advances</i> , 2018, 8, 16973-16990.	3.6	57
9	Novel unsymmetrical macrocyclic dicompartmental binuclear copper(II) complexes bearing 4- and 6-coordination sites: Electrochemical, magnetic, catalytic and antimicrobial studies. <i>Polyhedron</i> , 2008, 27, 2931-2938.	2.2	54
10	Structural modeling, in vitro antiproliferative activity, and the effect of substituents on the DNA fastening and scission actions of heteroleptic copper(II) complexes with terpyridines and naproxen. <i>New Journal of Chemistry</i> , 2015, 39, 7895-7911.	2.8	54
11	Synthesis, electrochemical, catalytic and antimicrobial activities of novel unsymmetrical macrocyclic dicompartmental binuclear nickel(II) complexes. <i>Polyhedron</i> , 2008, 27, 1867-1874.	2.2	50
12	Hydroxy, carboxylic and amino acid functionalized superparamagnetic iron oxide nanoparticles: Synthesis, characterization and in vitro anti-cancer studies. <i>Journal of Chemical Sciences</i> , 2015, 127, 1155-1166.	1.5	43
13	Manganese(III) porphyrin-encapsulated Ti,Si-mesoporous molecular sieves as heterogeneous catalysts for the epoxidation of alkenes. <i>Applied Catalysis A: General</i> , 2006, 314, 216-225.	4.3	42
14	Heteroleptic silver(I) complexes with 2,2',6',6'-terpyridines and naproxen: DNA interaction, EGFR/VEGFR2 kinase, growth inhibition and cell cycle arrest studies. <i>Materials Science and Engineering C</i> , 2017, 76, 601-615.	7.3	39
15	DNA binding, molecular docking and apoptotic inducing activity of nickel(II), copper(II) and zinc(II) complexes of pyridine-based tetrazolo[1,5-a]pyrimidine ligands. <i>RSC Advances</i> , 2014, 4, 60816-60830.	3.6	38
16	Synthesis of new 1/4-phenoxo and bis-1/4-acetato tri-bridged copper(II), nickel(II) and zinc(II) complexes: Spectral, magnetic, electrochemical and catalytic studies. <i>Polyhedron</i> , 2006, 25, 2859-2868.	2.2	37
17	Synthesis, spectral, magnetic, electrochemical and kinetic studies of copper(II), nickel(II) and zinc(II) acetate complexes derived from phenol based ligands: Effect of p-substituents. <i>Polyhedron</i> , 2007, 26, 3993-4002.	2.2	37
18	Antioxidant, DNA binding and nuclease activities of heteroleptic copper(II) complexes derived from 2-((2-(piperazin-1-yl)ethylimino)methyl)-4-substituted phenols and diimines. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 785-793.	3.9	37

#	ARTICLE	IF	CITATIONS
19	Catalytic oxidation of alkenes by manganese(III) porphyrin-encapsulated Al, V, Si-mesoporous molecular sieves. <i>Inorganica Chimica Acta</i> , 2009, 362, 1491-1500.	2.4	35
20	Antioxidant, DNA interaction, VEGFR2 kinase, topoisomerase I and in vitro cytotoxic activities of heteroleptic copper(II) complexes of tetrazolo[1,5-a]pyrimidines and diimines. <i>Materials Science and Engineering C</i> , 2016, 68, 366-382.	7.3	35
21	Mixed-ligand copper(II) phenolate complexes: Synthesis, spectral characterization, phosphate-hydrolysis, antioxidant, DNA interaction and cytotoxic studies. <i>Journal of Molecular Structure</i> , 2015, 1080, 88-98.	3.6	33
22	Antibacterial, DNA interaction and cytotoxic activities of pendant-armed polyamine macrocyclic dinuclear nickel(II) and copper(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 400-414.	3.9	32
23	Magneto-structural correlation, antioxidant, DNA interaction and growth inhibition activities of new chloro-bridged phenolate complexes. <i>RSC Advances</i> , 2014, 4, 42855-42872.	3.6	31
24	Cationic vanadyl porphyrin-encapsulated mesoporous Al/V-MCM-41 as heterogeneous catalysts for the oxidation of alkenes. <i>Inorganica Chimica Acta</i> , 2009, 362, 1810-1818.	2.4	27
25	Mononuclear zinc(II) complexes of 2-((2-(piperazin-1-yl)ethylimino)methyl)-4-substituted phenols: Synthesis, structural characterization, DNA binding and cheminuclease activities. <i>Journal of Molecular Structure</i> , 2014, 1062, 147-157.	3.6	24
26	Synthesis, characterization, biological evaluation and docking studies of macrocyclic binuclear manganese(II) complexes containing 3,5-dinitrobenzoyl pendant arms. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 143, 49-58.	3.9	24
27	Mixed-ligand binuclear copper(II) complex of 5-methylsalicylaldehyde and 2,2'-bipyridyl: Synthesis, crystal structure, DNA binding and nuclease activity. <i>Journal of Chemical Sciences</i> , 2014, 126, 783-792.	1.5	23
28	Synthesis, spectral, magnetic, electrochemical and catalytic studies of cyclam-based copper(II) and nickel(II) complexes—effect of N-substitution. <i>Journal of Coordination Chemistry</i> , 2008, 61, 3594-3609.	2.2	21
29	Epoxidation of Styrene by Fe, Mn, and V Metalloporphyrins Encapsulated Si, Al, Ti And V- Mcm-41. <i>Catalysis Letters</i> , 2009, 127, 175-182.	2.6	21
30	Theoretical calculations, DNA interaction, topoisomerase I and phosphatidylinositol-3-kinase studies of water soluble mixed-ligand nickel(II) complexes. <i>Chemico-Biological Interactions</i> , 2016, 248, 21-35.	4.0	21
31	In vitro and in vivo anti-proliferative evaluation of bis(4-(4-tolyl)-2,2':6''-terpyridine)copper(II) complex against Ehrlich ascites carcinoma tumors. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1109-1122.	2.6	20
32	Bis(thiosemicarbazone)copper(I) Complexes as Prospective Therapeutic Agents: Interaction with DNA/BSA Molecules, and In Vitro and In Vivo Anti-Proliferative Activities. <i>ChemistrySelect</i> , 2018, 3, 7100-7111.	1.5	20
33	Catechol oxidase and phenoxazinone synthase mimicking activities of mononuclear Fe(III) and Co(III) complexes of amino-bis(phenolate)-based mixed ligands: Synthesis, spectral and electrochemical studies. <i>Inorganica Chimica Acta</i> , 2019, 495, 118988.	2.4	19
34	Evaluation of photocatalytic, antimicrobial and anticancer activities of ZnO/MS (M = Zn, Cd or Pb) core/shell nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 225, 20-32.	3.5	18
35	Biocompatibility, <i>in Vitro</i> Antiproliferative, and <i>in Silico</i> EGFR/VEGFR2 Studies of Heteroleptic Metal(II) Complexes of Thiosemicarbazones and Naproxen. <i>Chemical Research in Toxicology</i> , 2019, 32, 1554-1571.	3.3	18
36	Metalloporphyrins encapsulated mesoporous molecular sieves as efficient heterogeneous catalysts for oxidation of cyclohexene with iodosylbenzene. <i>Journal of Porous Materials</i> , 2010, 17, 711-718.	2.6	16

#	ARTICLE	IF	CITATIONS
37	Dinuclear manganese(II) complexes of hexaazamacrocycles bearing N-benzoylated pendant separated by aromatic spacers: Antibacterial, DNA interaction, cytotoxic and molecular docking studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 153, 247-260.	3.8	15
38	Thiosemicarbazone-based bifunctional chemosensors for simultaneous detection of inorganic cations and fluoride anion. <i>Journal of Molecular Structure</i> , 2020, 1219, 128640.	3.6	15
39	Dinuclear phenoxo-bridged μ_2 -complexes containing a piperazine that shows chemical nuclease and cytotoxic activities. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1794-1808.	2.2	14
40	Heteroscorpionate-based heteroleptic copper(II) complexes: Antioxidant, molecular docking and in vitro cytotoxicity studies. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3809.	3.5	14
41	Theoretical investigation, biological evaluation and VEGFR2 kinase studies of metal(II) complexes derived from hydrotris(methimazolyl)borate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 155, 66-77.	3.8	12
42	Pyridazine-based heteroleptic copper(II) complexes as potent anticancer drugs by inducing apoptosis and S-phase arrest in breast cancer cell. <i>Inorganica Chimica Acta</i> , 2018, 482, 160-169.	2.4	12
43	In vitro cytotoxicity efficacy of phytosynthesized Ag/ZnO nanocomposites using <i>Murraya koenigii</i> and <i>Zingiber officinale</i> extracts. <i>Materials Chemistry and Physics</i> , 2021, 272, 124903.	4.0	12
44	Silver(I) metallodrugs of thiosemicarbazones and naproxen: biocompatibility, in vitro anti-proliferative activity and in silico interaction studies with EGFR, VEGFR2 and LOX receptors. <i>Toxicology Research</i> , 2020, 9, 28-44.	2.1	11
45	Electrochemical, catalytic and antimicrobial activities of N-functionalized cyclam based unsymmetrical dicompartmental binuclear nickel(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 849-854.	3.9	10
46	Synthesis of new unsymmetrical μ_2 -phenoxo bridged copper(II), nickel(II) and zinc(II) complexes: spectral, magnetic, electrochemical, catalytic, and antimicrobial studies. <i>Journal of Coordination Chemistry</i> , 2009, 62, 1356-1372.	2.2	10
47	N-benzoylated 1,4,8,11-tetraazacyclotetradecane and their copper(II) and nickel(II) complexes: Spectral, magnetic, electrochemical, crystal structure, catalytic and antimicrobial studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 92-100.	3.9	10
48	Spectroscopic, Redox and Biological Studies of Push-Pull Porphyrins and Their Metal Complexes. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 2656-2664.	1.9	10
49	Template Synthesis of Polyaza Macrocylic Copper(II) and Nickel(II) Complexes: Spectral Characterization and Antimicrobial Studies. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2279-2286.	1.9	10
50	Synthesis, spectral, magnetic, electrochemical and kinetic studies of copper(II), nickel(II) and zinc(II) complexes derived from a phenol-based unsymmetrical μ_2 -ligand. <i>Journal of Coordination Chemistry</i> , 2009, 62, 600-612.	2.2	9
51	New 14-membered trans-di-substituted μ_2 -tetraazamacrocycles and their copper(II) and nickel(II) complexes: Spectral, magnetic, electrochemical, crystal structure, catalytic and antimicrobial studies. <i>Journal of Molecular Structure</i> , 2011, 989, 91-100.	3.6	9
52	Synthesis, characterization, crystal structure and antimicrobial activities of new trans N,N-substituted macrocylic dioxocyclam and their copper(II) and nickel(II) complexes. <i>Polyhedron</i> , 2011, 30, 106-113.	2.2	9
53	Tetrazolo[1,5-c]pyrimidine-based metal(II) complexes as therapeutic agents: DNA interaction, targeting topoisomerase I and cyclin-dependent kinase studies. <i>Inorganic and Nano-Metal Chemistry</i> , 2018, 48, 569-582.	1.6	9
54	N-functionalized cyclam based trinuclear copper(II) complexes: electrochemical, magnetic, catalytic and antimicrobial studies. <i>Transition Metal Chemistry</i> , 2009, 34, 33-41.	1.4	8

#	ARTICLE	IF	CITATIONS
55	Theoretical, photophysical and biological investigations of an organic charge transfer compound 2-aminobenzimidazolium-2-oxyisoindolate-1,3-dione-2-hydroxyisoindoline-1,3-dione. RSC Advances, 2016, 6, 60336-60348.	3.6	8
56	Heteroleptic metal(II) complexes of hydrotris(methimazolyl)borate and diimines: Synthesis, theoretical calculations, antimicrobial, antioxidant, in vitro cytotoxicity and molecular docking studies. Microbial Pathogenesis, 2017, 109, 120-130.	2.9	8
57	DNA profiling and in vitro cytotoxicity studies of tetrazolo[1,5-a]pyrimidine-based copper(II) complexes. BioMetals, 2019, 32, 611-626.	4.1	8
58	Antidiabetic activity of phytosynthesized Ag/CuO nanocomposites using <i>Murraya koenigii</i> and <i>Zingiber officinale</i> extracts. Journal of Drug Delivery Science and Technology, 2022, 67, 102838.	3.0	8
59	Synthesis, electrochemical, magnetic, catalytic and antimicrobial studies of N-functionalized cyclam based trinuclear copper(II) and nickel(II) complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 66, 297-306.	1.6	7
60	Phosphate-hydrolysis, antioxidant, DNA binding, and nuclease activities promoted by heteroleptic nickel(II) phenolate complexes. Medicinal Chemistry Research, 2015, 24, 2441-2453.	2.4	7
61	In Vitro Antioxidant and Insulin Mimetic Activities of Heteroleptic Oxovanadium(IV) Complexes with Thiosemicarbazones and Naproxen. ChemistrySelect, 2020, 5, 6245-6254.	1.5	7
62	New "side-off" coordination asymmetric homobinuclear Ni(II) and heterobinuclear Ni(II)Zn(II) complexes as models for hydrolysis of p-nitrophenylphosphate: Synthesis, characterization and electrochemical studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 105, 245-250.	3.9	6
63	Bis(imidazol-1-yl)methane-based heteroscorpionate metal(II) complexes: Theoretical, antimicrobial, antioxidant, in vitro cytotoxicity and c-Met tyrosine kinase studies. Journal of Molecular Structure, 2019, 1196, 567-577.	3.6	6
64	In vitro anti-proliferative and in silico docking studies of heteroleptic copper(II) complexes of pyridazine-based ligands and ciprofloxacin. Applied Organometallic Chemistry, 2019, 33, e4946.	3.5	6
65	Synthesis, characterization and bioactive evaluation of copper(II) 5,10,15,20-tetrakis[1,1',1'',1'''-2-(2,6-bis(4-methylpiperazine-1-yl-methyl)-4-iminomethyl phenol)phenyl] porphyrin: A picket-fence porphyrin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 652-660.	3.9	5
66	Heterogeneous Oxidation of Styrene Using Iron(III) Porphyrin Encapsulated in Mesoporous Molecular Sieves. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 608-615.	0.6	5
67	Evaluation of Antimicrobial and Antidiabetic Activities of Ag@SiO ₂ Core-Shell Nanoparticles Synthesized with Diverse Shell Thicknesses. Journal of Cluster Science, 2020, 31, 739-749.	3.3	5
68	4-Functionalized terpyridine derivative as dual responsive chemosensor for biologically important inorganic cations and fluoride anion. Journal of the Iranian Chemical Society, 2020, 17, 1237-1248.	2.2	5
69	N-functionalized, cyclam-based unsymmetrical dicompartmental binuclear copper(II) complexes containing 4- and 6-coordination sites: electrochemical, magnetic, catalytic, and antimicrobial studies. Journal of Coordination Chemistry, 2009, 62, 3073-3084.	2.2	4
70	Synthesis and characterization of new unsymmetrical "side-off" tetra and hexa coordinate homobinuclear Cu(II) and heterobinuclear Cu(II)Zn(II) complexes: Magnetic, electrochemical and kinetic studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 94, 334-339.	3.9	4
71	Theoretical, biological and in silico studies of pendant-armed heteroleptic copper(II) phenolate complexes. Journal of Molecular Structure, 2018, 1161, 306-319.	3.6	4
72	Heteroleptic silver(I), nickel (II) and copper (II) complexes of N ⁴ -substituted thiosemicarbazones and ciprofloxacin: Theoretical, in vitro anti-proliferative, and in silico molecular modelling and pharmacokinetics studies. Applied Organometallic Chemistry, 0, , .	3.5	4

#	ARTICLE	IF	CITATIONS
73	Antioxidant, DNA interaction, molecular docking and cytotoxicity studies of aminoethylpiperazine-containing macrocyclic binuclear copper(II) complexes. Applied Organometallic Chemistry, 2017, 31, e3669.	3.5	3
74	Theoretical, antimicrobial, antioxidant, <i>in vitro</i> cytotoxicity, and cyclin-dependent kinase 2 inhibitor studies of metal(II) complexes with bis(imidazol-1-yl)methane-based heteroscorpionate ligands. Journal of Coordination Chemistry, 2019, 72, 2015-2034.	2.2	2
75	Ferrocenylimine-based homoleptic metal(II) complexes: Theoretical, biocompatibility, <i>in vitro</i> anti-proliferative, and <i>in silico</i> molecular docking and pharmacokinetics studies. Journal of Molecular Structure, 2022, 1250, 131905.	3.6	2
76	Theoretical, single crystal and molecular docking analysis of tetrazolo[1,5-a]pyrimidine-6-carboxylate derivatives. Journal of Molecular Structure, 2022, 1250, 131706.	3.6	1
77	Hexaaquamanganese(II) bis[hydrotris(3-methyl-2-thioxo-1-imidazolyl) borate] Tetrahydrate: A Non-coordinating Borate Ligand with Manganese(II) Metal Ion. Molecular Crystals and Liquid Crystals, 2015, 608, 190-197.	0.9	0