

Mohammad Hakimi

List of Publications by Year in descending order

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77
papers

1,486
citations

361413

20
h-index

377865

34
g-index

79
all docs

79
docs citations

79
times ranked

1745
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of colloidal silver nanoparticles by sonochemical method. <i>Materials Letters</i> , 2012, 66, 117-120.	2.6	122
2	Catalytic Epoxidation Activity of Keplerate Polyoxomolybdate Nanoball toward Aqueous Suspension of Olefins under Mild Aerobic Conditions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10036-10039.	13.7	115
3	Fabrication and Characterization of Gelatin Stabilized Silver Nanoparticles under UV-Light. <i>International Journal of Molecular Sciences</i> , 2011, 12, 6346-6356.	4.1	90
4	Facile synthesis, characterization, and evaluation of neurotoxicity effect of cerium oxide nanoparticles. <i>Ceramics International</i> , 2013, 39, 6917-6921.	4.8	80
5	{Mo ₁₃₂ } Nanoball as an Efficient and Cost-Effective Catalyst for Sustainable Oxidation of Sulfides and Olefins with Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 942-950.	6.7	64
6	Superparamagnetic iron oxide nanoparticles (SPIONs): Green preparation, characterization and their cytotoxicity effects. <i>Ceramics International</i> , 2014, 40, 14641-14645.	4.8	64
7	Synthesis, characterization, crystal structures and biological activities of eight-coordinate zirconium(IV) Schiff base complexes. <i>Transition Metal Chemistry</i> , 2017, 42, 483-489.	1.4	57
8	S-allyl-3-(2-pyridyl-methylene)dithiocarbazate ligand and its manganese(II), cobalt(III) and nickel(II) complexes. <i>Inorganica Chimica Acta</i> , 2011, 371, 36-41.	2.4	43
9	Microwave-assisted template synthesis of diazacyclam-based macrocyclic copper complex and forming octahedral, square planar and square pyramidal geometries by ion exchanging and introducing a novel 2D square-grid copper–mercury coordination polymer. <i>Polyhedron</i> , 2014, 70, 92-100.	2.2	35
10	Coordination geometries and crystal structures of cadmium(II) complexes with a new amino alcohol (NNâ€²O) ligand. <i>Journal of Coordination Chemistry</i> , 2012, 65, 2221-2233.	2.2	31
11	Coordination behavior of dimethyl pyridine-2,6-dicarboxylate towards mercury(II), cadmium(II) and chromium(III) in the solid- and gaseous state supported by CSD studies. <i>Polyhedron</i> , 2015, 102, 569-577.	2.2	31
12	Experimental and molecular modeling studies on the DNA-binding of diazacyclam-based acrocyclic copper complex. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 167, 7-14.	3.8	29
13	Silver(I) coordination polymer and nine-coordinated cadmium(II) complex with dimethyl pyridine-2,6-dicarboxylate supported by solid state and electrochemical studies. <i>Journal of Coordination Chemistry</i> , 2013, 66, 1129-1141.	2.2	27
14	Palladium, cadmium and mercury complexes of 2-((2-((2-hydroxyethyl)amino)ethyl)amino)cyclohexanol: Synthesis, structural, spectral and solution studies. <i>Polyhedron</i> , 2014, 67, 27-35.	2.2	27
15	12-Molybdophosphoric acid anchored on aminopropylsilanized magnetic graphene oxide nanosheets (Fe ₃ O ₄ /GrOSi(CH ₂) ₃ -NH ₂ /H ₃ PMo ₁₂ O ₂₅) as a novel magnetically recoverable solid catalyst for H ₂ O ₂ -mediated oxidation of benzylic alcohols under solvent-free conditions. <i>RSC Advances</i> , 2018, 8, 6768-6780.	3.6	25
16	Complexation to Cadmium(II) of a Tetradentate Ligand Resulting from the Condensation of 2-Pyridinecarbaldehyde with N-(2-Aminoethyl)propane-1,3-diamine. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013, 68, 267-271.	0.7	24
17	Crystal Structure and Characterization of a New Eight Coordinated Cadmium Complex. <i>Journal of the Korean Chemical Society</i> , 2013, 57, 352-356.	0.2	23
18	Synthesis and characterization of copper(I) complexes from triphenylphosphine and isatin Schiff bases of semi- and thiosemicarbazide. <i>Journal of Sulfur Chemistry</i> , 2011, 32, 55-61.	2.0	22

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19	Characterization of Fe_2O_3 Nanoparticles Prepared from a New $[\text{Fe}(\text{Ofloxacin})_2\text{Cl}_2]$ Precursor: A Heterogeneous Photocatalyst for Removal of Methylene Blue and Ciprofloxacin in Water. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 504-512.	3.7	22
20	Synthesis, Crystallographic and Spectral Characterization of a Cadmium Chloride Complex Containing a Novel Imidazo[1,5-a]Pyridine Derivative. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 452-458.	0.7	21
21	Synthesis, Characterization and Crystal Structure of 4-Amino-1,2,4-triazoline-5-thione and its Silver(I) Complex. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 924-927.	1.2	20
22	Synthesis, characterization, and crystal structure of a tricadmium complex of 3,4-diamino-5-methyl-1,2,4-triazole. <i>Journal of Coordination Chemistry</i> , 2011, 64, 105-114.	2.2	20
23	Colorimetric and label free detection of gelatinase positive bacteria and gelatinase activity based on aggregation and dissolution of gold nanoparticles. <i>Journal of Microbiological Methods</i> , 2021, 191, 106349.	1.6	19
24	Template-directed synthesis of macrocyclic copper(II) complexes of diazacyclam, 1,3,6,10,12,15-hexaazatricyclo[13.3.1.1 ^{6,10}]eicosane. <i>Journal of Coordination Chemistry</i> , 2012, 65, 1232-1245.	2.2	18
25	Preparation, characterization, and antibacterial activity of γ -irradiated silver nanoparticles in aqueous gelatin. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 403-409.	4.9	17
26	Clean and Heterogeneous Condensation of 1,2-Diamines with 1,2-Dicarbonyls Catalyzed by $\{\text{Mo}_{132}\}$ Giant Ball Nanocluster. <i>Journal of Cluster Science</i> , 2015, 26, 1439-1450.	3.3	17
27	Synthesis and Characterization of New Copper(I) Complexes Containing Thione Derivatives of 1, 2, 4-Triazine. Crystal Structure of $[\text{Cu}(\text{PPh}_3)_2(\text{ATTO})]\text{NO}_3$ (ATTO = 4-amino-1, 2, 4-triazoline-5-thione). <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 28, 104-117.	1.0	17
28	Green synthesis of reduced graphene oxide/Sr ₂ CuMgFe ₂₈ O ₄₆ nanocomposite with tunable magnetic properties. <i>Ceramics International</i> , 2014, 40, 11957-11961.	4.8	16
29	One-dimensional mercury(II) halide coordination polymers of 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine ligand: Synthesis, crystal structure, spectroscopic and DFT studies. <i>Journal of Solid State Chemistry</i> , 2016, 233, 311-319.	2.9	16
30	DNA binding affinity of a macrocyclic copper(II) complex: Spectroscopic and molecular docking studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2017, 36, 497-510.	1.1	16
31	Synthesized Zn(II)-Amino Acid and -Chitosan Chelates to Increase Zn Uptake by Bean (Phaseolus). <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 30, 104-117.	5.1	16
32	Molecular structures and spectroscopic characterization of cobalt(III) and nickel(II) complexes of N-(2-hydroxyethyl)-2-(thiophene-2-ylmethylene)-hydrazinecarbothioamide. <i>Transition Metal Chemistry</i> , 2010, 35, 959-965.	1.4	15
33	Spectroscopic investigation into the interaction of a diazacyclam-based macrocyclic copper(ii) complex with bovine serum albumin. <i>Luminescence</i> , 2017, 32, 43-50.	2.9	15
34	Preparation, characterization, and photocatalytic activity of Bi ₂ O ₃ /Al ₂ O ₃ nanocomposite. <i>Polyhedron</i> , 2019, 170, 523-529.	2.2	15
35	Intramolecular hydrogen bond, molecular structure and vibrational assignment of tetra-acetylene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 605-615.	3.9	14
36	Synthesis and Crystal Structure of Diaqua bis(4-amino-3-methyl-1, 2, 4-triazol-5-thione)cadmium(II) Nitrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 1899.	1.2	13

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37	Synthesis, Characterization and Crystal Structure of a Silver(I) Complex containing AMTT (AMTT =) Tj ETQq1 1 0.784314 rgBT /Overlock 2006, 632, 2201-2203.	1.2	13
38	Three new bismuth(III) pyridine-2,6-dicarboxylate compounds: Synthesis, characterization and crystal structures. Journal of Molecular Structure, 2015, 1099, 523-533.	3.6	13
39	Fluorescent organic nanoparticles with enhanced fluorescence by self-aggregation and their application for detection of Fe ³⁺ ions. New Journal of Chemistry, 2018, 42, 5929-5936.	2.8	13
40	Synthesis and crystal structures of the first cadmium complexes of 3,5,6-tris(2-pyridyl)-1,2,4-triazine ligand. Journal of Molecular Structure, 2013, 1036, 71-77.	3.6	12
41	A Spectral and Structural Study of the New Cadmium Salt [(H ₂ L) ₂][Cd ₂ l ₆][(NO ₃) ₂]. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2013, 68, 272-276.	0.7	12
42	Synthesis and Antibacterial Evaluation of New Pyrimidyl Nâ€Ciprofloxacin Derivatives. ChemistrySelect, 2019, 4, 8930-8933.	1.5	12
43	Fortification of Bread Wheat Using Synthesized Zn-Glycine and Zn-Alanine Chelates in Comparison with ZnSO ₄ in a Calcareous Soil. Communications in Soil Science and Plant Analysis, 2020, 51, 1048-1064.	1.4	12
44	Spectral and Geometrical Study of Two Cadmium Complexes, mer-R,S-[Cd(aepn) ₂]X ₂ (X: I ⁻ , Cl ⁻ , aepn) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T Chemical Society, 2013, 57, 447-454.	0.2	11
45	2D s-d Mixed-Metal Coordination Polymer Containing Potassium, Chromium(III) and Dipicolinate Ions: Preparation and Crystal Structure. Journal of Chemical Crystallography, 2012, 42, 290-294.	1.1	10
46	Synthesis, Characterization and Thermal Studies of a Nanosized 1D L-Arginine/Copper(II) Coordination Polymer by Sonochemical Method: A New Precursor for Preparation of Copper(II) Oxide Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 2907-2915.	3.7	10
47	Preparation, Structural and Spectroscopic Characterization of Vanadium(IV) and Vanadium(V) Complexes with Dipicolinic Acid. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2157-2162.	1.2	9
48	Preparation and Crystal Structure of Lead (II) Complex with Propane-1,2-Diamine. Journal of Chemical Crystallography, 2012, 42, 180-185.	1.1	9
49	Synthesis and characterization of a macrocyclic copper complex containing the 14-membered 1,3,5,8,10,12-hexaazacyclotetradecane unit. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 115-118.	0.7	9
50	A new macrocyclic ligand as a turn-on fluorescent chemosensor for the recognition of Pb ²⁺ ions. New Journal of Chemistry, 2017, 41, 12198-12204.	2.8	9
51	Protective effects of isatin and its synthetic derivatives against iron, copper and lead toxicity. Toxicology in Vitro, 2019, 54, 232-236.	2.4	9
52	Formation of a copperâ€copper bond in coordination of a cyclotriphosphazene ligand toward Cu(II): Structural, spectral and docking studies. Journal of Molecular Structure, 2020, 1207, 127804.	3.6	9
53	New 2-pyridinealdehyde N 4-hydroxyethyl thiosemicarbazone and their Cd(II) and Cu(II) complexes: synthesis, spectral, in vitro antibacterial activity and molecular and supramolecular structure study. Journal of Sulfur Chemistry, 2010, 31, 415-426.	2.0	8
54	Comparative study on two novel nine-coordinated supramolecular compounds of cerium(III) and yttrium(III): Solid and solution states studies. Inorganica Chimica Acta, 2012, 385, 140-149.	2.4	8

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55	Using experimental methods and CSD data for investigating the products of the reaction between 2-((2-aminoethyl)amino)ethanol with Cd ₂ and Cd ₂ /Hg ₂ -mixtures. Journal of Coordination Chemistry, 2017, 70, 1247-1259.	2.2	8
56	Preparation of a new fluorescence nanochemosensor for Sn(II) ions by a modified nanoprecipitation method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 250, 119236.	3.9	8
57	Structural and Spectral Characterization of a Chromium(III) Picolinate Complex: Introducing a New Redox Reaction. Journal of the Korean Chemical Society, 2013, 57, 721-725.	0.2	7
58	Regeneration of Aromatic Carbonyl Compounds from the Corresponding Oximes Using Tetrapyrindine Silver(II) Peroxydisulfate in Acetonitrile and Aqueous Media. Synthetic Communications, 2010, 40, 725-731.	2.1	6
59	Synthesis, Characterization and Crystal Structure of a Binuclear Cadmium Iodide Complex with a Multi-N-donor Oxazolidine Ligand. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2011, 66, 1122-1126.	0.7	6
60	Spectral and Structural Study of two Piperazine Based Nitrate Salts. Journal of Chemical Research, 2013, 37, 140-142.	1.3	6
61	Conductometric Study of Complex Formation Between Cu(II) Ion and 4-Amino-3-ethyl-1,2,4-triazol-5-thione in Binary Ethanol / Water Mixtures. E-Journal of Chemistry, 2008, 5, 551-556.	0.5	5
62	Fabrication and properties of Nd-La doped Sr ₂ CuMgFe ₂₈ O ₄₆ nanoparticles anchored with sheets of reduced graphene oxide. Ceramics International, 2014, 40, 14501-14507.	4.8	5
63	Spectral, Structural, Theoretical and Docking Studies of a Mn(II) Complex with an N ₄ -Donor Ligand. Journal of Chemical Research, 2018, 42, 623-627.	1.3	5
64	Synthesis and Spectral Study of a Copper(I) Complex, [Cu(L)(PPh ₃) ₂], with NS-Donor Ligand. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 596-605.	1.6	4
65	Bis(2-aminopyridinium) 2,5-dicarboxybenzene-1,4-dicarboxylate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o1524-o1524.	0.2	3
66	Docking studies on an N ₄ -donor Schiff base ligand and its Cu(II) complex supported by structural, spectral and theoretical studies. Journal of Chemical Research, 2019, 43, 170-178.	1.3	3
67	Reaction of 2-[(2-aminoethyl)amino]ethanol with pyridine-2-carbaldehyde and complexation of the products with Cu ^{II} and Cd ^{II} along with docking studies. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 951-959.	0.5	3
68	Reducing Environmental Pollution of Fuel Fly Ash by Extraction and Removal Vanadium Pentoxide. Solid Fuel Chemistry, 2020, 54, 337-342.	0.7	3
69	Formation of 1D coordination polymers by reaction of a tetrazine ligand and PbX ₂ (X: Br, I) salts: Spectral, structural and theoretical studies. Polyhedron, 2021, 208, 115440.	2.2	3
70	Synthesis and Spectroscopic Characterization of Two New Dawson Sandwich Complexes: Na ₁₈ [(NaOH) ₂ (VO) ₂ (P ₂ W ₁₅ O ₅₆) ₂].40H ₂ O and Na ₁₈ [(NaOH) ₂ (VO) ₂ (As ₂ W ₁₅ O ₅₆) ₂].27H ₂ O. E-Journal of Chemistry, 2012, 9, 2185-2190.	0.5	2
71	Solvent-free synthesis and crystal structures of s-cis and s-trans N,N'-bis(2-hydroxycyclohexyl)ethane-1,2-diamine. Structural Chemistry, 2013, 24, 81-88.	2.0	2
72	Microwave-assisted solvent-free synthesis and spectral and structural characterization of cyclotriphosphazene hexakis(<i>o</i> -tolylamide). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 999-1003.	0.7	2

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73	A new amino alcohol N ₂ O-donor ligand: coordination toward zinc(II) and cadmium(II) halides and enantioselective products. Journal of Coordination Chemistry, 2017, 70, 3513-3522.	2.2	1
74	Mechanistic, energetic and structural studies of single-walled carbon nanotubes functionalized with penicillamine. Journal of the Serbian Chemical Society, 2018, 83, 167-179.	0.8	1
75	Solvent free synthesis of three cyclotriphosphazene derivatives containing piperazine substituents using microwave irradiation. Spectral, theoretical, solution and docking studies. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 13-21.	1.6	0
76	Synthesis and characterization of a manganese(II) complex containing N(<i>sp</i> ²) ₄ -donor Schiff base ligand and interaction toward biomacromolecules. Inorganic and Nano-Metal Chemistry, 2021, 51, 1570-1579.	1.6	0
77	Investigation of the effect of the <i>N</i> -oxidation process on the interaction of selected pyridine compounds with biomacromolecules: structural, spectral, theoretical and docking studies. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 750-757.	0.5	0