

Elisabete C B A Alegria

List of Publications by Year in descending order

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86
papers

1,965
citations

257450

24
h-index

276875

41
g-index

88
all docs

88
docs citations

88
times ranked

1998
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic Oxidation of Alcohols. <i>Advances in Organometallic Chemistry</i> , 2015, , 91-174.	1.0	142
2	Half-sandwich Scorpionate Vanadium, Iron and Copper Complexes: Synthesis and Application in the Catalytic Peroxidative Oxidation of Cyclohexane under Mild Conditions. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 706-716.	4.3	131
3	Synthesis and characterization of copper(II) 4-phenyl-terpyridine compounds and catalytic application for aerobic oxidation of benzylic alcohols. <i>Dalton Transactions</i> , 2014, 43, 4048-4058.	3.3	97
4	Syntheses, Molecular Structures, Electrochemical Behavior, Theoretical Study, and Antitumor Activities of Organotin(IV) Complexes Containing 1-(4-Chlorophenyl)-1-cyclopentanecarboxylato Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 8158-8167.	4.0	89
5	Efficient cyclohexane oxidation with hydrogen peroxide catalysed by a C-scorpionate iron(II) complex immobilized on desilicated MOR zeolite. <i>Applied Catalysis A: General</i> , 2013, 464-465, 43-50.	4.3	66
6	Effect of Phenolic Compounds on the Synthesis of Gold Nanoparticles and its Catalytic Activity in the Reduction of Nitro Compounds. <i>Nanomaterials</i> , 2018, 8, 320.	4.1	66
7	Pyrazole and trispyrazolymethane rhenium complexes as catalysts for ethane and cyclohexane oxidations. <i>Applied Catalysis A: General</i> , 2007, 317, 43-52.	4.3	65
8	Dinuclear Mn(II,II) complexes: magnetic properties and microwave assisted oxidation of alcohols. <i>Dalton Transactions</i> , 2014, 43, 3966.	3.3	65
9	Cyclohexane oxidation with dioxygen catalyzed by supported pyrazole rhenium complexes. <i>Journal of Molecular Catalysis A</i> , 2008, 285, 92-100.	4.8	60
10	Novel Coordination Polymers with (Pyrazolato)-Based Tectons: Catalytic Activity in the Peroxidative Oxidation of Alcohols and Cyclohexane. <i>Crystal Growth and Design</i> , 2015, 15, 2303-2317.	3.0	57
11	Oxorhenium Complexes Bearing the Water-Soluble Tris(pyrazol-1-yl)methanesulfonate, 1,3,5-Triaza-7-phosphaadamantane, or Related Ligands, as Catalysts for Baeyer-Villiger Oxidation of Ketones. <i>Inorganic Chemistry</i> , 2013, 52, 4534-4546.	4.0	51
12	Iron(III) and cobalt(III) complexes with both tautomeric (keto and enol) forms of aroylhydrazone ligands: catalysts for the microwave assisted oxidation of alcohols. <i>RSC Advances</i> , 2016, 6, 8079-8088.	3.6	50
13	Chlorido-Bridged Dimanganese(II) Complexes of the Schiff Base Derived from [2+2] Condensation of 2,6-Diformyl-4-methylphenol and 1,3-Bis(3-aminopropyl)tetramethyldisiloxane: Structure, Magnetism, Electrochemical Behaviour, and Catalytic Oxidation of Secondary Alcohols. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 120-131.	2.0	48
14	Rhenium complexes of tris(pyrazolyl)methanes and sulfonate derivative. <i>Dalton Transactions</i> , 2006, , 4954.	3.3	45
15	Syntheses and properties of Re(III) complexes derived from hydrotris(1-pyrazolyl)methanes: molecular structure of [ReCl ₂ (HCpz ₃)(PPh ₃)] [BF ₄]. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 1947-1958.	1.8	42
16	Evaluation of cell toxicity and DNA and protein binding of green synthesized silver nanoparticles. <i>Biomedicine and Pharmacotherapy</i> , 2018, 101, 137-144.	5.6	42
17	Microwave-assisted peroxidative oxidation of toluene and 1-phenylethanol with monomeric keto and polymeric enol aroylhydrazone Cu(II) complexes. <i>Molecular Catalysis</i> , 2017, 439, 224-232.	2.0	40
18	Copper(II) and cobalt(II) tetrazole-saccharinate complexes as effective catalysts for oxidation of secondary alcohols. <i>Journal of Molecular Catalysis A</i> , 2016, 425, 283-290.	4.8	39

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19	Tetranuclear Copper(II) Complexes with Macrocyclic and Open-Chain Disiloxane Ligands as Catalyst Precursors for Hydrocarboxylation and Oxidation of Alkanes and 1-Phenylethanol. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4946-4956.	2.0	35
20	Molybdenum Complexes Bearing the Tris(1-pyrazolyl)methanesulfonate Ligand: Synthesis, Characterization and Electrochemical Behaviour. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2415-2424.	2.0	31
21	Aroylhydrazone Cu(II) Complexes in keto Form: Structural Characterization and Catalytic Activity towards Cyclohexane Oxidation. <i>Molecules</i> , 2016, 21, 425.	3.8	31
22	Baeyer-Villiger oxidation of ketones catalysed by rhenium complexes bearing N- or oxo-ligands. <i>Applied Catalysis A: General</i> , 2012, 443-444, 27-32.	4.3	29
23	Hexanuclear and undecanuclear iron(III) carboxylates as catalyst precursors for cyclohexane oxidation. <i>Dalton Transactions</i> , 2013, 42, 14388.	3.3	29
24	Effect of 1,10-phenanthroline on DNA binding, DNA cleavage, cytotoxic and lactate dehydrogenase inhibition properties of Robson type macrocyclic dicopper(II) complex. <i>Journal of Coordination Chemistry</i> , 2013, 66, 3989-4003.	2.2	26
25	Peroxidative Oxidation of Alkanes and Alcohols under Mild Conditions by Di- and Tetranuclear Copper (II) Complexes of Bis (2-Hydroxybenzylidene) Isophthalohydrazide. <i>Molecules</i> , 2018, 23, 2699.	3.8	23
26	1D Copper(II)-Aroylhydrazone Coordination Polymers: Magnetic Properties and Microwave Assisted Oxidation of a Secondary Alcohol. <i>Frontiers in Chemistry</i> , 2020, 8, 157.	3.6	21
27	Metal Azolate/Carboxylate Frameworks as Catalysts in Oxidative and C-C Coupling Reactions. <i>Inorganic Chemistry</i> , 2016, 55, 5804-5817.	4.0	20
28	New Ru(II)(arene) Complexes with Halogen-Substituted Bis- and Tris(pyrazolyl)borate Ligands. <i>Chemistry - A European Journal</i> , 2014, 20, 3689-3704.	3.3	19
29	Cu(II) complexes of N-rich aroylhydrazone: magnetism and catalytic activity towards microwave-assisted oxidation of xylenes. <i>Dalton Transactions</i> , 2019, 48, 12839-12849.	3.3	19
30	Catalytic Performance of Fe(II)-Scorpionate Complexes towards Cyclohexane Oxidation in Organic, Ionic Liquid and/or Supercritical CO ₂ Media: A Comparative Study. <i>Catalysts</i> , 2017, 7, 230.	3.5	18
31	Cd(II) coordination compounds as heterogeneous catalysts for microwave-assisted peroxidative oxidation of toluene and 1-phenylethanol. <i>New Journal of Chemistry</i> , 2020, 44, 9163-9171.	2.8	18
32	Redox-active cytotoxic diorganotin(IV) cycloalkylhydroxamate complexes with different ring sizes: Reduction behaviour and theoretical interpretation. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 147-156.	3.5	17
33	The solvation and electrochemical behavior of copper acetylacetonate complexes in ionic liquids. <i>Journal of Molecular Structure</i> , 2014, 1060, 142-149.	3.6	17
34	Catalytic activity of a benzoyl hydrazone based dimeric dicopper(II) complex in catechol and alcohol oxidation reactions. <i>Inorganica Chimica Acta</i> , 2015, 431, 139-144.	2.4	17
35	Aroylhydrazone Cd(II) and Cu(II) complexes as catalysts for secondary alcohol oxidation. <i>Polyhedron</i> , 2017, 129, 182-188.	2.2	17
36	A copper-amidocarboxylate based metal organic macrocycle and framework: synthesis, structure and catalytic activities towards microwave assisted alcohol oxidation and Knoevenagel reactions. <i>New Journal of Chemistry</i> , 2019, 43, 9843-9854.	2.8	16

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37	Highly active organosulfonic aryl-silica nanoparticles as efficient catalysts for biomass derived biodiesel and fuel additives. <i>Biomass and Bioenergy</i> , 2021, 145, 105936.	5.7	16
38	Copper(II) complexes with an arylhydrazone of methyl 2-cyanoacetate as effective catalysts in the microwave-assisted oxidation of cyclohexane. <i>Inorganica Chimica Acta</i> , 2018, 471, 658-663.	2.4	15
39	New Trendy Magnetic C-Scorpionate Iron Catalyst and Its Performance towards Cyclohexane Oxidation. <i>Catalysts</i> , 2018, 8, 69.	3.5	15
40	Antiproliferative activity of heterometallic sodium and potassium-dioxidovanadium(V) polymers. <i>Journal of Inorganic Biochemistry</i> , 2019, 200, 110811.	3.5	15
41	Synthesis and Structure of Copper Complexes of a N6O4 Macrocyclic Ligand and Catalytic Application in Alcohol Oxidation. <i>Catalysts</i> , 2019, 9, 424.	3.5	15
42	Liquid phase oxidation of xylenes catalyzed by the tripodal C-scorpionate iron(II) complex [FeCl ₂ {(3-HC(pz) ₃) ₃ }. <i>Polyhedron</i> , 2017, 125, 151-155.	2.2	14
43	Plasmonic Metal Nanoparticles Hybridized with 2D Nanomaterials for SERS Detection: A Review. <i>Biosensors</i> , 2022, 12, 225.	4.7	14
44	Syntheses and properties of hydride-cyanamide and derived hydrogen-cyanamide complexes of molybdenum(IV). Crystal structure of [MoH ₂ (NCNH ₂) ₂ (Ph ₂ PCH ₂ CH ₂ PPh ₂) ₂][BF ₄] ₂ . <i>Dalton Transactions</i> , 2003, , 3743-3750.	3.3	13
45	Molybdenum- and tungsten(II) monometallic 3-(2-pyridyl)pyrazole and bimetallic 3-(2-pyridyl)pyrazolate complexes. <i>Dalton Transactions</i> , 2012, 41, 7017.	3.3	13
46	Homo- and heteropolymetallic 3-(2-pyridyl)pyrazolate manganese and rhenium complexes. <i>Dalton Transactions</i> , 2014, 43, 4009-4020.	3.3	13
47	The influence of multiwalled carbon nanotubes and graphene oxide additives on the catalytic activity of 3d metal catalysts towards 1-phenylethanol oxidation. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 557-563.	4.8	13
48	New copper(II) tetramer with arylhydrazone of barbituric acid and its catalytic activity in the oxidation of cyclic C ₅ -C ₈ alkanes. <i>Polyhedron</i> , 2016, 117, 666-671.	2.2	12
49	ZnO nanoparticles: An efficient catalyst for transesterification reaction of α -keto carboxylic esters. <i>Catalysis Today</i> , 2020, 348, 72-79.	4.4	11
50	Simple solvent-free preparation of dispersed composites and their application as catalysts in oxidation and hydrocarboxylation of cyclohexane. <i>Materials Today Chemistry</i> , 2017, 5, 52-62.	3.5	10
51	Effect of Graphene vs. Reduced Graphene Oxide in Gold Nanoparticles for Optical Biosensors: A Comparative Study. <i>Biosensors</i> , 2022, 12, 163.	4.7	10
52	Comparison of microwave and mechanochemical energy inputs in the catalytic oxidation of cyclohexane. <i>Dalton Transactions</i> , 2018, 47, 8193-8198.	3.3	9
53	C-scorpionate Au(III) complexes as pre-catalysts for industrially significant toluene oxidation and benzaldehyde esterification reactions. <i>Inorganica Chimica Acta</i> , 2020, 512, 119881.	2.4	9
54	A new member of Cu II 8 family: Synthesis, structure and magnetic properties of an octanuclear copper complex with N-tert-butyl-diethanolamine. <i>Inorganica Chimica Acta</i> , 2017, 460, 83-88.	2.4	8

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55	A Simulation Study of Surface Plasmons in Metallic Nanoparticles: Dependence on the Properties of an Embedding a-Si:H Matrix. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700487.	1.8	8
56	Catalytic oxidation of a model volatile organic compound (toluene) with tetranuclear Cu(II) complexes. <i>Inorganica Chimica Acta</i> , 2021, 520, 120314.	2.4	8
57	Benzimidazole Schiff base copper(II) complexes as catalysts for environmental and energy applications: VOC oxidation, oxygen reduction and water splitting reactions. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 23175-23190.	7.1	8
58	Analysis of metallic nanoparticles embedded in thin film semiconductors for optoelectronic applications. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	7
59	Synergistic catalytic action of vanadia-titania composites towards the microwave-assisted benzoin oxidation. <i>Dalton Transactions</i> , 2019, 48, 3198-3203.	3.3	7
60	Green synthesis of zinc oxide particles with apple-derived compounds and their application as catalysts in the transesterification of methyl benzoates. <i>Dalton Transactions</i> , 2020, 49, 6488-6494.	3.3	7
61	Vanadium C-scorpionate supported on mesoporous aptes-functionalized SBA-15 as catalyst for the peroxidative oxidation of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111111.	4.4	7
62	Ultrasound and photo-assisted oxidation of toluene and benzyl alcohol with oxidovanadium(V) complexes. <i>Applied Catalysis A: General</i> , 2022, 638, 118623.	4.3	7
63	Synthesis, characterization and redox behaviour of benzoyldiazenido- and oxorhenium complexes bearing N,N- and S,S-type ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 1269-1274.	2.4	6
64	Ball milling as an effective method to prepare magnetically recoverable heterometallic catalysts for alcohol oxidation. <i>Inorganica Chimica Acta</i> , 2017, 455, 653-658.	2.4	6
65	C-scorpionate iron(II) complexes as highly selective catalysts for the hydrocarboxylation of cyclohexane. <i>Inorganica Chimica Acta</i> , 2019, 489, 269-274.	2.4	6
66	The solvation and redox behavior of mixed ligand copper(II) complexes of acetylacetonate and aromatic diimines in ionic liquids. <i>Inorganica Chimica Acta</i> , 2014, 409, 465-471.	2.4	5
67	Mechanochemical Preparation of Pd(II) and Pt(II) Composites with Carbonaceous Materials and Their Application in the Suzuki-Miyaura Reaction at Several Energy Inputs. <i>Molecules</i> , 2020, 25, 2951.	3.8	5
68	Ultrasound and Radiation-Induced Catalytic Oxidation of 1-Phenylethanol to Acetophenone with Iron-Containing Particulate Catalysts. <i>Molecules</i> , 2020, 25, 740.	3.8	5
69	Hybrid Nanocomposites of Plasmonic Metal Nanostructures and 2D Nanomaterials for Improved Colorimetric Detection. <i>Chemosensors</i> , 2022, 10, 237.	3.6	5
70	Mono-alkylation of cyanoimide at a molybdenum(IV) diphosphinic center by alkyl halides: synthesis, cathodically induced isomerization and theoretical studies. <i>Electrochimica Acta</i> , 2016, 218, 252-262.	5.2	4
71	Highly Active and Selective Supported Rhenium Catalysts for Aerobic Oxidation of n-Hexane and n-Heptane. <i>Catalysts</i> , 2018, 8, 114.	3.5	4
72	Fe(III) Complexes in Cyclohexane Oxidation: Comparison of Catalytic Activities under Different Energy Stimuli. <i>Catalysts</i> , 2020, 10, 1175.	3.5	4

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73	Polyaromatic Carboxylate Ligands Based Zn(II) Coordination Polymers for Ultrasound-Assisted One-Pot Tandem Deacetalizationâ€“Knoevenagel Reactions. <i>Catalysts</i> , 2022, 12, 294.	3.5	4
74	Vanadium(V) complexes supported on porous MIL-100(Fe) as catalysts for the selective oxidation of toluene. <i>Microporous and Mesoporous Materials</i> , 2022, 341, 112091.	4.4	4
75	Acylation of cyanoimido-complexes trans-[Mo(NCN){NCNC(O)R}(dppe)2]Cl and their reactions with electrophiles: chemical, electrochemical and theoretical study. <i>Dalton Transactions</i> , 2012, 41, 13876.	3.3	3
76	Copper(II) Complexes of Arylhydrazone of 1H-Indene-1,3(2H)-dione as Catalysts for the Oxidation of Cyclohexane in Ionic Liquids. <i>Catalysts</i> , 2018, 8, 636.	3.5	3
77	Efficient Solventâ€“Free Friedelâ€“Crafts Benzoylation and Acylation of <i>m</i> -Xylene Catalyzed by <i>N</i> -Acetylpyrazine-2-carbohydrazideâ€“Fe(III)-chloro Complexes. <i>ChemistrySelect</i> , 2018, 3, 8349-8355. ^{1.5}	1.5	3
78	Plasmonic properties of gold nanospheres coupled to reduced graphene oxide for biosensing applications *. , 2019, , .		3
79	Comparative Electrochemical Behaviour of the Complexes trans-[Mo(NCN){NCNC(O)R}(dppe)2]Cl (R =) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	3
80	Mechanochemical Activation and Catalysis. <i>RSC Catalysis Series</i> , 2019, , 548-563.	0.1	2
81	Simulation of localized surface plasmon in metallic nanoparticles embedded in amorphous silicon. , 2017, , .		2
82	Electrochemical Properties of (h5-C5Me5)â€“Rhodium and â€“Iridium Complexes Containing Bis(pirazolyl)alkane Ligands. <i>Portugaliae Electrochimica Acta</i> , 2014, 32, 253-257.	1.1	2
83	Characterization of Plasmonic Effects in AuNP+rGO Composite as a Sensing Layer for a Low-cost Lab-on-chip Biosensor. , 2019, , .		1
84	Electrochemical Properties of Robson Type Macrocyclic Dicopper(II) Complexes. <i>Portugaliae Electrochimica Acta</i> , 2015, 33, 201-207.	1.1	1
85	Optical properties of metal nanoparticles embedded in amorphous silicon analysed using discrete dipole approximation. , 2018, , .		1
86	Characterization of AuNPs+rGO as a functionalized layer for LSPR sensors. <i>Materials Letters: X</i> , 2020, 5, 100032.	0.7	0