Isabel Romero

List of Publications by Citations

88 papers	3,320 citations	29 h-index	55 g-index
93 ext. papers	3,521 ext. citations	5.5 avg, IF	4.79 L-index

#	Paper	IF	Citations
88	Molecular catalysts that oxidize water to dioxygen. *Angewandte Chemie - International Edition*, **2009**, 48, 2842-52	16.4	378
87	A new Ru complex capable of catalytically oxidizing water to molecular dioxygen. *Journal of the American Chemical Society*, **2004**, 126, 7798-9	16.4	349
86	The Ru-Hbpp water oxidation catalyst. *Journal of the American Chemical Society*, **2009**, 131, 15176-87	16.4	236
85	Icosahedral boron clusters: a perfect tool for the enhancement of polymer features. *Chemical Society Reviews*, **2016**, 45, 5147-73	58.5	185
84	Ru complexes that can catalytically oxidize water to molecular dioxygen. *Inorganic Chemistry*, **2008**, 47, 1824-34	5.1	133
83	Ru-hbpp-based water-oxidation catalysts anchored on conducting solid supports. *Angewandte Chemie - International Edition*, **2008**, 47, 5830-2	16.4	105
82	Molekulare Katalysatoren f□die Oxidation von Wasser zu Disauerstoff. *Angewandte Chemie*, **2009**, 121, 2882-2893	3.6	102
81	Synthesis, structure, and redox and catalytic properties of a new family of ruthenium complexes containing the tridentate bpea ligand. *Inorganic Chemistry*, **2001**, 40, 4150-6	5.1	92
80	Can the disproportion of oxidation state III be favored in RuII-OH2/RuIV=O systems?. *Journal of the American Chemical Society*, **2006**, 128, 5306-7	16.4	78
79	Structural characterization and electronic properties determination by high-field and high-frequency EPR of a series of five-coordinated Mn(II) complexes. *Inorganic Chemistry*, **2004**, 43, 6455-63	5.1	76
78	A dinuclear manganese(II) complex with the [Mn(2)(mu-O(2)CCH(3))(3)](+) core: synthesis, structure, characterization, electroinduced transformation, and catalase-like activity. *Inorganic Chemistry*, **2002**, 41, 1795-806	5.1	68
77	Synthesis, structure, and spectroscopic, photochemical, redox, and catalytic properties of ruthenium(II) isomeric complexes containing dimethyl sulfoxide, chloro, and the dinucleating bis(2-pyridyl)pyrazole ligands. *Inorganic Chemistry*, **2003**, 42, 2040-8	5.1	64
76	Synthesis, structure, and acid-base and redox properties of a family of new Ru(II) isomeric complexes containing the trpy and the dinucleating Hbpp ligands. *Inorganic Chemistry*, **2003**, 42, 8385-94	5.1	63
75	A Novel Dimanganese(II) Complex with Two Chloride Bridges □A Two-Electron Oxidation System. *European Journal of Inorganic Chemistry*, **2001**, 2001, 69-72	2.3	60
74	New tetranuclear Cu(II) complexes: synthesis, structure, and magnetic properties. *Inorganic Chemistry*, **2004**, 43, 6699-706	5.1	49
73	Mechanistic insights into the chemistry of RuII complexes containing Cl and DMSO ligands. *Inorganic Chemistry*, **2007**, 46, 10707-16	5.1	48
72	Synthesis and structural characterization of five-, six-, and seven-coordinate mononuclear manganese(II) complexes with N-tridentate ligands. *Inorganica Chimica Acta*, **2004**, 357, 3430-3436	2.7	43

71	Multireversible redox processes in pentanuclear bis(triple-helical) manganese complexes featuring an oxo-centered triangular {Mn(II)2Mn(III)(μ3-O)}5+ or {Mn(II)Mn(III)2(μ3-O)}6+ core wrapped by two {Mn(II)2(bpp)3}-. *Inorganic Chemistry*, **2011**, 50, 8427-36	5.1	42
70	Synthesis, structure and redox properties of a new ruthenium(II) complex containing the flexible tridentate ligand N,N-bis(2-pyridylmethyl)ethylamine, cis-fac-Ru(bpea)22+, and its homologue attached covalently to a polypyrrole film. *Dalton Transactions RSC*, **2000**, 1689-1694		42
69	New Ru complexes containing the N-tridentate bpea and phosphine ligands: consequences of meridional vs facial geometry. *Inorganic Chemistry*, **2006**, 45, 10520-9	5.1	40
68	A new dinuclear Ru-Hbpp based water oxidation catalyst with a trans-disposition of the Ru-OH. *Dalton Transactions*, **2011**, 40, 3640-6	4.3	39
67	Ru(II) complexes containing dmso and pyrazolyl ligands as catalysts for nitrile hydration in environmentally friendly media. *Dalton Transactions*, **2013**, 42, 13461-9	4.3	38
66	New Ru(II) complexes with anionic and neutral N-donor ligands as epoxidation catalysts: an evaluation of geometrical and electronic effects. *Inorganic Chemistry*, **2010**, 49, 7072-9	5.1	36
65	Ru-Hbpp-Based Water-Oxidation Catalysts Anchored on Conducting Solid Supports. *Angewandte Chemie*, **2008**, 120, 5914-5916	3.6	36
64	Silver-selective membrane electrodes using acyclic dithia benzene derivative neutral carriers. Comparison with related macrocyclic compounds. *Analytica Chimica Acta*, **1994**, 294, 207-213	6.6	36
63	Synthesis, structure, and substitution mechanism of new Ru(II) complexes containing 1,4,7-trithiacyclononane and 1,10-phenanthroline ligands. *Inorganic Chemistry*, **2004**, 43, 5403-9	5.1	33
62	Synthesis, Structure, and Redox Properties of a New Aqua Ruthenium Complex Containing the Tridentate [9]aneS3 and the Didentate 1,10-Phenanthroline Ligands. *European Journal of Inorganic Chemistry*, **2004**, 2004, 612-618	2.3	31
61	Atropisomeric discrimination in new Ru(II) complexes containing the C(2)-symmetric didentate chiral phenyl-1,2-bisoxazolinic ligand. *Chemistry - A European Journal*, **2006**, 12, 2798-807	4.8	30
60	RuO complexes as catalysts for oxidative transformations, including the oxidation of water to molecular dioxygen. *Journal of Molecular Catalysis A*, **2006**, 251, 215-220		29
59	Silver(I)-Selective Thioether Ligands. Solution NMR and X-ray Structural Studies on the Interaction of 2,5,8-Trithia[9]-m-cyclophane and Related Ligands with Silver(I). *Inorganic Chemistry*, **1995**, 34, 5410-5415	5.1	29
58	Design of dinuclear copper species with carboranylcarboxylate ligands: study of their steric and electronic effects. *Chemistry - A European Journal*, **2011**, 17, 13217-29	4.8	26
57	Electron-, proton-, and photon-induced spectroscopic changes in chromophore-quencher tricarbonyl(2,2Rbipyridine)rhenium(I) complexes with 4,4Razobis(pyridine). *Inorganic Chemistry*, **2010**, 49, 4084-91	5.1	26
56	New ru(II) complexes containing oxazoline ligands as epoxidation catalysts. Influence of the substituents on the catalytic performance. *Inorganic Chemistry*, **2011**, 50, 6044-54	5.1	26
55	Investigation of the Zero-Field Splitting in Six- and Seven-Coordinate Mononuclear MnII Complexes with N/O-Based Ligands by Combining EPR Spectroscopy and Quantum Chemistry. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3658-3665	2.3	26
54	Redox and catalytic properties of new polypyrrole modified electrodes functionalized by [Ru(bpea)(bpy)H2O]2+ complexes; bpea=N,N?-bis(2-pyridylmethyl)ethylamine, bpy=2,2?-bipyridine. *Electrochimica Acta*, **2003**, 48, 1047-1054	6.7	24

53	Mn(II) complexes containing the polypyridylic chiral ligand (-)-pinene[5,6]bipyridine. Catalysts for oxidation reactions. *Dalton Transactions*, **2009**, 8117-26	4.3	23
52	Catalytic ability of a cationic Ru(II) monochloro complex for the asymmetric hydrogenation of dimethyl itaconate and enamides. *Inorganic Chemistry*, **2006**, 45, 2644-51	5.1	23
51	EPR and magnetic properties of [Mn(ECl)2(bpy)]n: An unusual ferromagnetic interaction in a Mn(II) chloro-bridged polymer. *Inorganica Chimica Acta*, **2005**, 358, 4459-4465	2.7	22
50	Silver(I), mercury(II) and copper(I) complexes of acyclic and macrocyclic dithioether, metaxylyl based ligands. *Polyhedron*, **1996**, 15, 2057-2065	2.7	21
49	Ru(ii)-dmso complexes containing azole-based ligands: synthesis, linkage isomerism and catalytic behaviour. *Dalton Transactions*, **2016**, 45, 3163-74	4.3	20
48	New aqua N-heterocyclic carbene Ru(II) complexes with two-electron process as selective epoxidation catalysts: an evaluation of geometrical and electronic effects. *Inorganic Chemistry*, **2013**, 52, 5077-87	5.1	19
47	N-Tetradentate SPANamine Derivatives and Their MnII-Complexes as Catalysts for Epoxidation of Alkenes. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1213-1224	2.3	19
46	A Novel Carbene Ruthenium Complex as Reusable and Selective Two-Electron Catalyst for Alkene Epoxidation. *Advanced Synthesis and Catalysis*, **2011**, 353, 231-238	5.6	19
45	Fine Tuning of MLCT States in New Mononuclear Complexes of Ruthenium(II) Containing Tris(1-pyrazolyl)methane, 2,2?-Bipyridine and Aromatic Nitrogen Heterocycles. *European Journal of Inorganic Chemistry*, **2005**, 2005, 272-277	2.3	19
44	m-Carboranylphosphinate as Versatile Building Blocks To Design all Inorganic Coordination Polymers. *Inorganic Chemistry*, **2017**, 56, 5502-5505	5.1	18
43	Efficient hydrogenation of alkenes using a highly active and reusable immobilised Ru complex on AlPO4. *Journal of Molecular Catalysis A*, **2009**, 308, 41-45		18
42	Heterogeneization of a new Ru(II) homogeneous asymmetric hydrogenation catalyst containing BINAP and the N-tridentate bpea ligand, through covalent attachment on amorphous AlPO4 support. *Topics in Catalysis*, **2006**, 40, 193-205	2.3	18
41	Reactivity of [{Ƞ5-C5Me5RhCl(ECl)}2] towards some potentially bidentate ligands. *Journal of Organometallic Chemistry*, **1991**, 408, 241-246	2.3	18
40	Reusable manganese compounds containing pyrazole-based ligands for olefin epoxidation reactions. *Dalton Transactions*, **2015**, 44, 17529-43	4.3	17
39	Water-soluble manganese inorganic polymers: the role of carborane clusters and producing large structural adjustments from minor molecular changes. *Chemistry - A European Journal*, **2014**, 20, 13993-4003	4.8	17
38	Synthesis, structure, redox properties, and catalytic activity of new ruthenium complexes containing neutral or anionic and facial or meridional ligands: an evaluation of electronic and geometrical effects. *Inorganic Chemistry*, **2007**, 46, 5381-9	5.1	17
37	New synthetic routes toward enantiopure nitrogen donor ligands. *Journal of Organic Chemistry*, **2006**, 71, 9283-90	4.2	17
36	Synthesis, Properties and Molecular Structure of [Ru(tpm)(bpy)(CH3CN)](PF6)2 (tpm = tris(1-pyrazolyl)methane, bpy = 2,2Rbipyridine) □Another Example of Nitrile Hydrolysis Promoted by Ruthenium(II). *European Journal of Inorganic Chemistry*, **2005**, 2005, 3019-3023	2.3	16

35	Understanding Electronic Ligand Perturbation over Successive Metal-Based Redox Potentials in Mononuclear Ruthenium Aqua Complexes. *ChemPlusChem*, **2013**, 78, 235-243	2.8	15
34	New ruthenium(II) complexes with enantiomerically pure bis- and tris(pinene)-fused tridentate ligands. Synthesis, characterization and stereoisomeric analysis. *Inorganic Chemistry*, **2008**, 47, 8016-24	5.1	15
33	The Spectroscopic, Electrochemical and Structural Characterization of a Family of Ru Complexes Containing the C2-Symmetric Didentate Chiral 1,3-Oxazoline Ligand and Their Catalytic Activity. *European Journal of Inorganic Chemistry*, **2007**, 2007, 5207-5214	2.3	15
32	Metallacarboranes as Photoredox Catalysts in Water. *Chemistry - A European Journal*, **2020**, 26, 5027-5036	4.8	15
31	Electrochemical generation of binuclear complexes [Mn2III,III(O)(OAc)2(bpea)2]2+ and [Mn2IV,IV(O)2(OAc)(bpea)2]3+ from the mononuclear [MnII(bpea)2]2+ complex. *Journal of Electroanalytical Chemistry*, **1997**, 436, 219-225	4.1	14
30	Catalytic Activity of Chloro and Triflate Manganese(II) Complexes in Epoxidation Reactions: Reusable Catalytic Systems for Alkene Epoxidation. *European Journal of Inorganic Chemistry*, **2014**, 2014, 2663-2670	2.3	12
29	A water soluble Mn(II) polymer with aqua metal bridges. *Dalton Transactions*, **2013**, 42, 7838-41	4.3	12
28	Ruthenium-catalyzed asymmetric hydrogenation of N-(3,4-dihydro-2-naphthalenyl)-acetamide. *Catalysis Communications*, **2008**, 9, 117-119	3.2	12
27	A Recoverable Ruthenium Aqua Complex Supported on Silica Particles: An Efficient Epoxidation Catalyst. *Chemistry - A European Journal*, **2017**, 23, 4096-4107	4.8	11
26	Improving the photosensitizing properties of ruthenium polypyridyl complexes using 4-methyl-2,2R-bipyridine-4R-carbonitrile as an auxiliary ligand. *Inorganic Chemistry*, **2013**, 52, 4950-62	5.1	11
25	Synthesis and Structure of Novel RuII - N?C - Me Complexes and their Activity Towards Nitrile Hydrolysis: An Examination of Ligand Effects. *Australian Journal of Chemistry*, **2009**, 62, 1675	1.2	11
24	Polypyrrole-functionalized ruthenium carbene catalysts as efficient heterogeneous systems for olefin epoxidation. *Dalton Transactions*, **2014**, 43, 9916-23	4.3	10
23	Mechanistic theoretical insight of Ru(II) catalysts with a meridional-facial bpea fashion competition. *Chemical Physics Letters*, **2008**, 458, 200-204	2.5	10
22	A Ruthenium(II) Aqua Complex as Efficient Chemical and Photochemical Catalyst for Alkene and Alcohol Oxidation. *European Journal of Inorganic Chemistry*, **2019**, 2019, 2124-2133	2.3	9
21	Intramolecular hydrogen bonding stabilizes the nuclearity of complexes. A comparative study based on the H-carborane and Me-carborane framework. *Dalton Transactions*, **2015**, 44, 10399-409	4.3	8
20	A family of manganese complexes containing heterocyclic-based ligands with cytotoxic properties. *Journal of Inorganic Biochemistry*, **2018**, 182, 124-132	4.2	7
19	FeCl 2 py 4 + catalyzed transformation of aromatic amines by HOOH under mild conditions. *Journal of Molecular Catalysis A*, **1999**, 148, 49-58		7
18	All inorganic coordination polymers have been made possible with the m-carboranylphosphinate ligand. *Dalton Transactions*, **2018**, 47, 14785-14798	4.3	7

17	Noncovalently Linked Metallacarboranes on Functionalized Magnetic Nanoparticles as Highly Efficient, Robust, and Reusable Photocatalysts in Aqueous Medium. *ACS Applied Materials & Interfaces*, **2020**, 12, 56372-56384	9.5	6
16	Increasing transmission of electronic interaction in dinuclear unsymmetric mixed-valent ruthenium complexes. *Polyhedron*, **2007**, 26, 17-23	2.7	6
15	Unprecedented collateral sensitivity for cisplatin-resistant lung cancer cells presented by new ruthenium organometallic compounds. *Inorganic Chemistry Frontiers*, **2021**, 8, 1983-1996	6.8	6
14	Metallacarborane Assemblies as Effective Antimicrobial Agents, Including a Highly Potent Anti-MRSA Agent. *Organometallics*, **2020**, 39, 4253-4264	3.8	5
13	Carving a 1D Co(II)-carboranylcarboxylate system by using organic solvents to create stable trinuclear molecular analogues: complete structural and magnetic studies. *Dalton Transactions*, **2016**, 45, 10916-27	4.3	5
12	Mono- and Dinuclear Complexes of Tricarbonylrhenium(I) with 4-Methyl-2,2?-bipyridine-4?-carbonitrile. *European Journal of Inorganic Chemistry*, **2014**, 2014, 3359-3369	2.3	5
11	Simple and cheap steric and electronic characterization of the reactivity of Ru(II) complexes containing oxazoline ligands as epoxidation catalysts. *Chemical Physics Letters*, **2013**, 577, 142-146	2.5	5
10	Efficient and selective oxidation of aldehydes with dioxygen catalysed by vanadium-containing heteropolyanions. *Comptes Rendus Chimie*, **2017**, 20, 888-895	2.7	4
9	Carboranycarboxylate Complexes as Efficient Catalysts in Epoxidation Reactions. *European Journal of Inorganic Chemistry*, **2017**, 2017, 4425-4429	2.3	4
8	A Heterogeneous Ruthenium dmso Complex Supported onto Silica Particles as a Recyclable Catalyst for the Efficient Hydration of Nitriles in Aqueous Medium. *Inorganic Chemistry*, **2019**, 58, 8460-8470	5.1	3
7	Thermodynamic characterization of the liquid□quid extraction of silver by acyclic dithia benzene derivatives. *Analytica Chimica Acta*, **1998**, 375, 127-133	6.6	3
6	Aqueous Persistent Noncovalent Ion-Pair Cooperative Coupling in a Ruthenium Cobaltabis(dicarbollide) System as a Highly Efficient Photoredox Oxidation Catalyst. *Inorganic Chemistry*, **2021**, 60, 8898-8907	5.1	3
5	A stand-alone cobalt bis(dicarbollide) photoredox catalyst epoxidates alkenes in water at extremely low catalyst load. *Green Chemistry*, **2021**, 23, 10123-10131	10	2
4	Hydrogenation of □Unsaturated Carbonyl Compounds over Covalently Heterogenized Ru(II) Diphosphine Complexes on AlPO4-Sepiolite Supports. *Catalysts*, **2021**, 11, 289	4	0
3	New ruthenium polypyridyl complexes as potential sensors of acetonitrile and catalysts for water oxidation.. *RSC Advances*, **2022**, 12, 8414-8422	3.7	0
2	Highlighting the Binding Behavior of Icosahedral Boron Clusters Incorporated into Polymers: Synthons, Polymers Preparation, and Relevant Properties41-60		
1	Advances in the catalytic and photocatalytic behavior of carborane derived metal complexes. *Advances in Catalysis*, **2022**,	2.4	