Eduardo Sola

List of Publications by Year
in descending order

72 papers	3,188 citations	109321 35 h-index	155660 55 g-index
74 all docs	74 docs citations	74 times ranked	2027 citing authors

#	Article	IF	Citations
1	Transition metal liquid crystals: advanced materials within the reach of the coordination chemist. Coordination Chemistry Reviews, 1992, 117, 215-274.	18.8	460
2	Iridium Complexes withN-Allyl-Substituted Benzimidazol-2-ylidene Ligands and Their Application in Catalytic Transfer Hydrogenation. Organometallics, 2005, 24, 2203-2209.	2.3	177
3	Kinetic and mechanistic investigation of the sequential hydrogenation of phenylacetylene catalyzed by OsHCl(CO)(PR3)2 [PR3 = PMe-tert-Bu2 and P-i-Pr3]. Journal of the American Chemical Society, 1989, 111, 7431-7437.	13.7	136
4	Cooperative Bimetallic Effects on New Iridium(III) Pyrazolate Complexes:Â Hydrogenâ^'Hydrogen, Carbonâ^'Hydrogen, and Carbonâ^'Chlorine Bond Activations. Organometallics, 1998, 17, 683-696.	2.3	79
5	Coordination of H2 and O2 to[OsHCl(CO)(PiPr3)2]: A Catalytically Active M(Î·2-H2) Complex. Angewandte Chemie International Edition in English, 1988, 27, 1563-1564.	4.4	78
6	Versatility of Cyclooctadiene Ligands in Iridium Chemistry and Catalysis. Organometallics, 2003, 22, 5406-5417.	2.3	78
7	LabileN-Heterocyclic Carbene Complexes of Iridium. Organometallics, 2009, 28, 863-870.	2.3	74
8	MHCl(CO)(PiPr3)2 (M = Ru, Os) complexes as catalyst precursors for the reduction of unsaturated substrates. Journal of Molecular Catalysis, 1988, 45, 1-5.	1.2	72
9	Carbonâ^'Carbon Coupling and Carbonâ^'Hydrogen Activation Reactions in Bis(triisopropylphosphine)osmium Complexesâ€. Journal of the American Chemical Society, 1996, 118, 89-99.	13.7	68
10	Reactions of Diamidonaphthalene-Bridged Diiridium Tetrahydrides with Alkynes:â€‰ Hydrogenation, Vinylidene Formation, and Catalytic Câ^'C Coupling. Organometallics, 2005, 24, 2722-2729.	2.3	65
11	Quantum Mechanical Exchange Coupling in Trihydridoosmium Complexes Containing Azole Ligands. Inorganic Chemistry, 1996, 35, 7811-7817.	4.0	62
12	Iridium Compounds with Îº-P,P,Si (biPSi) Pincer Ligands: Favoring Reactive Structures in Unsaturated Complexes. Journal of the American Chemical Society, 2010, 132, 9111-9121.	13.7	61
13	Methoxycarbonylation of olefins catalyzed by palladium complexes bearing P,N-donor ligands. Dalton Transactions, 2007, , 5419.	3.3	58
14	Bis-alkynyl- and hydrido-alkynyl-osmium(II) and ruthenium(II) complexes containing triisopropylphosphine as ligand. Journal of Organometallic Chemistry, 1989, 366, 187-196.	1.8	57
15	Dynamic Behavior in Solution of the Transâ€Hydridodihydrogen Complex [OsHCl(n²â€H₂)(CO)(PiPr₃)₂]: Ab Initio and NMR Studies. Chemistry - A European Journal, 1996, 2, 815-825.	3.3	56
16	Competitive Reaction Pathways in the Addition of Phenylacetylene to Diamidonaphthalene-Bridged Diiridium Complexesâ€. Organometallics, 1999, 18, 1125-1136.	2.3	56
17	Carbonâ^'Carbon Coupling of Two Alkenyl Fragments on a Saturated Compound. Organometallics, 1997, 16, 2919-2928.	2.3	55
18	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Cationic Iridium Complexes. Chemistry - A European Journal, 2006, 12, 4043-4056.	3.3	53

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19	The reduction of Î±,Î²-unsaturated ketones and cyclohexadienes catalyzed by mhcl(CO)(PiPr3)2 (M = Ru,) Tj ETQq1 1 0.784314 rgBT	1.2	52
20	Oxidative Addition of Group 14 Element Hydrido Compounds to OsH2(Î·2-CH2CHEt)(CO)(PiPr3)2:Â Synthesis and Characterization of the First Trihydridoâ˜'Silyl, Trihydridoâ˜'Germyl, and Trihydridoâ˜'Stannyl Derivatives of Osmium(IV). Inorganic Chemistry, 1996, 35, 1250-1256.	4.0	52
21	Synthesis and mesomorphism of stilbazole complexes of rhodium(I) and iridium(I). Journal of Materials Chemistry, 1991, 1, 251.	6.7	47
22	Reversible Insertion of Carbenes into Rutheniumâ€"Silicon Bonds. Journal of the American Chemical Society, 2013, 135, 19008-19015.	13.7	47
23	Liquid-crystal behavior in ionic complexes of silver(I): molecular structure-mesogenic activity relationship. Chemistry of Materials, 1990, 2, 748-758.	6.7	46
24	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. Chemistry - A European Journal, 1998, 4, 1398-1410.	3.3	44
25	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Dinuclear Iridium Complexes. Chemistry - A European Journal, 2006, 12, 4057-4068.	3.3	44
26	Synthesis of Butadiene-Osmium(0) and -Ruthenium(0) Complexes by Reductive Carbon-Carbon Coupling of Two Alkenyl Fragments. Organometallics, 1995, 14, 4825-4831.	2.3	43
27	Labile Hydrido Complexes of Iridium(III):â€‰ Synthesis, Dynamic Behavior in Solution, and Reactivity toward Alkenes. Organometallics, 1999, 18, 3534-3546.	2.3	43
28	Iridium Complexes of the Doubly Cyclometalated NHC Ligand IMesâ€²â€². Journal of the American Chemical Society, 2011, 133, 9738-9740.	13.7	42
29	Rectangular and hexagonal columnar mesophases in dinuclear rhodium(II) (alkyloxy)benzoate complexes. Inorganic Chemistry, 1992, 31, 732-737.	4.0	41
30	New Dihydrideâ˜' and Alkeneâ˜'Î·6-Arene Complexes of Iridium. Organometallics, 2001, 20, 2716-2724.	2.3	40
31	Thermally Activated Site Exchange and Quantum Exchange Coupling Processes in Unsymmetrical Trihydride Osmium Compounds. Inorganic Chemistry, 1999, 38, 1814-1824.	4.0	38
32	Trans Additions of Silanes to 1-Alkynes Catalyzed by Ruthenium Complexes:â€‰ Role of in Situ Formed Polynuclear Aggregates. Organometallics, 2002, 21, 4027-4029.	2.3	38
33	Câ˜'H Activation and Câ˜'C Coupling Reactions in 2-Vinylpyridine Cationic Complexes of Iridium. Organometallics, 2004, 23, 1908-1917.	2.3	38
34	Dimetallic Dioxygen Activation Leading to a Doubly Oxygen-Bridged Dirhodium Complex. Angewandte Chemie - International Edition, 2005, 44, 3267-3271.	13.8	38
35	Key Factors Determining the Course of Methyl Iodide Oxidative Addition to Diamidonaphthalene-Bridged Diiridium(I) and Dirhodium(I) Complexes. Inorganic Chemistry, 2000, 39, 4868-4878.	4.0	36
36	Nematic phases in ionic melts: mesogenic ionic complexes of silver(I). Chemistry of Materials, 1989, 1, 479-481.	6.7	35

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37	Rhodium complexes containing 1-(4-pyridylmethylene)-4-alkoxyanilines as ligands: crystal structure of an unusual square-planar cluster of 64 electrons, Rh4(OOCCH3)4(CO)4(NC5H4CH:NC6H4OC14H29)4. Organometallics, 1991, 10, 1794-1799.	2.3	33
38	Cationic, Neutral, and Anionic Hydrides of Iridium with PSiP Pincers. Inorganic Chemistry, 2017, 56, 7190-7199.	4.0	33
39	Rhodium(I) complexes containing 4-pyridylmethylene-4â€²-alkoxyanilines as ligands: Formation of rhodium containing liquid crystals by coordination of non-mesogenic organic ligands. Journal of Organometallic Chemistry, 1990, 387, 103-111.	1.8	32
40	Transmission of Trans Effects in Dinuclear Complexes. Journal of the American Chemical Society, 2001, 123, 11925-11932.	13.7	32
41	Sequential Câ^'H Activation and Dinuclear Insertion of Ethylene Promoted by a Diiridium Complex. Journal of the American Chemical Society, 2002, 124, 752-753.	13.7	32
42	Unusual 1-Alkyne Dimerization/Hydrogenation Sequences Catalyzed by [Ir(H)2(NCCH3)3(P-i-Pr3)]BF4: Evidence for Homogeneous-Like Mechanism in Imidazolium Salts. Advanced Synthesis and Catalysis, 2003, 345, 280-288.	4.3	32
43	Tridentate chiral NPN ligands based on bis(oxazolines) and their use in Pd-catalyzed enantioselective allylic substitution in molecular and ionic liquids. Tetrahedron, 2011, 67, 5402-5408.	1.9	32
44	Synthesis and reactivity of [Oî€sH{C6H4(CHî€†CHî€'H) }(CO)(PPri3)2] and the formato compounds [Os{(Eâ€‰)-CHî€†CHPh}(Î·2-O 2CH)(CO)(PPri3)2] and [OsH(Î·2-O2CH)(CO)(PPri3) 2]*. Journal of the Chemical Society Dalton Transactions, 1997, , 181-192.	1.1	31
45	Câ^'H Bond Activations by New Labile Î·6-Arene Complexes of Iridium. Journal of the American Chemical Society, 1999, 121, 10632-10633.	13.7	31
46	Evidence for a Dinuclear Mechanism in Alkyne Hydrogenations Catalyzed by Pyrazolate-Bridged Diiridium Complexes. Chemistry - A European Journal, 2000, 6, 2120-2128.	3.3	30
47	Addition of Water Across Siâ^'Ir Bonds in Iridium Complexes with Îº-P,P,Si (biPSi) Pincer Ligands. Inorganic Chemistry, 2010, 49, 10649-10657.	4.0	29
48	Iridium liquid crystal complexes by co-ordination of non-mesogenic orgainic ligands. Journal of the Chemical Society Chemical Communications, 1989, , 55.	2.0	28
49	Synthesis, molecular structure and reactivity of the octahedral iridium(III) compound [IrH(.eta.1,.eta.3-C8H12)(dppm)] [dppm = bis(diphenylphosphino)methane]. Organometallics, 1992, 11, 3659-3664.	2.3	28
50	Mononuclear and dinuclear bromo bridged iridium(I) complexes with N-allyl substituted imidazolin-2-ylidene ligands. Inorganica Chimica Acta, 2006, 359, 4840-4846.	2.4	28
51	Synthesis of [Ir2(Î¼-Pz)2(CH3)(CO)2(PiPr3)2]+. A key intermediate in SN2 oxidative addition of halocarbons to dinuclear complexes. Inorganic Chemistry Communication, 1998, 1, 64-67.	3.9	27
52	Synthesis, characterization, and reactivity of rhodium carboxylate dimers [Rh(.mu.-OOCCR3)(CO)(PCy3)]2 (R = H, F). X-ray crystal structure of [Rh2(.mu.-OOCCH3)(.mu.-.eta.1:.eta.2-C2Ph)(CO)2(PCy3)2]. Organometallics, 1993, 12, 266-275.	2.3	26
53	Water-Soluble Triisopropylphosphine Complexes of Ruthenium(II): Synthesis, Equilibria, and Acetonitrile Hydration. Organometallics, 2009, 28, 561-566.	2.3	25
54	Câ^'H Activations at Iridium(I) Square-Planar Complexes Promoted by a Fifth Ligand. Journal of the American Chemical Society, 2005, 127, 18074-18084.	13.7	23

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55	Synthesis, Molecular Structure, and Reactivity of Iridium(I) and Iridium(III) Complexes Formed by Coordination and Câ^'H Activation of the Substituted Arenes C6H5CH2CH2PiPr2and C6H5OCH2CH2PtBu2. Organometallics, 2003, 22, 2151-2160.	2.3	18
56	Fast CO2 hydrogenation to formic acid catalyzed by an Ir(PSiP) pincer hydride in a DMSO/water/ionic liquid solvent system. Catalysis Communications, 2020, 146, 106125.	3.3	18
57	Alkene Câ^'H Activations at Dinuclear Complexes Promoted by Oxidation. Angewandte Chemie - International Edition, 2002, 41, 1208-1211.	13.8	17
58	Allenyl to Alkenylcarbyne Tautomerization at the Ruâ€“Si Bond of Ru(ÎºP,P,Si) Pincer Complexes. Organometallics, 2015, 34, 800-803.	2.3	16
59	Reversible Insertion of Aldehydes and Ketones into Cï£¿H Bonds of Chiral Bis(oxazoline)/Iridium Complexes. Angewandte Chemie - International Edition, 2011, 50, 3240-3243.	13.8	11
60	Mechanistic Aspects of Dihydrogen Activation and Catalysis by Dinuclear Complexes. , 2001, , 299-327.		10
61	Silicon-Based Pincers. , 2018, , 401-413.		9
62	The Acetate Proton Shuttle between Mutually Trans Ligands. Organometallics, 2018, 37, 2645-2651.	2.3	9
63	Arene and Hydride Complexes of Ruthenium withfacPSiP Pincer Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2122-2128.	1.2	7
64	Versatile Îº²,Î·²-C Ligands Assembled at Iridium via [2+2] Oxidative Cyclization. Organometallics, 2010, 29, 3201-3209.	2.3	6
65	Binuclear Iridium Complexes in Catalysis. Topics in Organometallic Chemistry, 2015, , 31-58.	0.7	6
66	Recent advances in the chemistry of group 9â€"Pincer organometallics. Advances in Organometallic Chemistry, 2020, 73, 79-193.	1.0	6
67	Methylene- and diamidonaphthalene-bridged diiridium(III) complexes. Inorganica Chimica Acta, 2003, 350, 266-276.	2.4	4
68	Benzene-1,2-dithiolate-induced assembly of reactive iridium fragments into tetranuclear octahydride complexes. Inorganica Chimica Acta, 2004, 357, 1948-1954.	2.4	3
69	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. Chemistry - A European Journal, 1998, 4, 1398-1410.	3.3	1
70	Is thetranseffect an applicable concept in di- and polynuclear metal complexes?. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, c323-c323.	0.3	0
71	Recent developments on hydride iridium triisopropylphosphine complexes: [IrH2(NCCH3)3(PiPr3)]BF4 as hydrogenation catalyst. Special Publication - Royal Society of Chemistry, 2007, , 297-305.	0.0	0
72	Iridium Oxidation States in Catalytic Hydrogenation Intermediates. Journal of the Brazilian Chemical Society, 2014, , .	0.6	0