

Eduardo Sola

List of Publications by Year in descending order

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72
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3,188
citations

109321

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Fast CO ₂ hydrogenation to formic acid catalyzed by an Ir(PSiP) pincer hydride in a DMSO/water/ionic liquid solvent system. <i>Catalysis Communications</i> , 2020, 146, 106125.	3.3	18
2	Recent advances in the chemistry of group 9 Pincer organometallics. <i>Advances in Organometallic Chemistry</i> , 2020, 73, 79-193.	1.0	6
3	Silicon-Based Pincers. , 2018, , 401-413.		9
4	The Acetate Proton Shuttle between Mutually <i>trans</i> Ligands. <i>Organometallics</i> , 2018, 37, 2645-2651.	2.3	9
5	Cationic, Neutral, and Anionic Hydrides of Iridium with PSiP Pincers. <i>Inorganic Chemistry</i> , 2017, 56, 7190-7199.	4.0	33
6	Binuclear Iridium Complexes in Catalysis. <i>Topics in Organometallic Chemistry</i> , 2015, , 31-58.	0.7	6
7	Arene and Hydride Complexes of Ruthenium with <i>fac</i> PSiP Pincer Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2122-2128.	1.2	7
8	Allenyl to Alkenylcarbyne Tautomerization at the Ru-Si Bond of Ru(^η P,P,Si) Pincer Complexes. <i>Organometallics</i> , 2015, 34, 800-803.	2.3	16
9	Iridium Oxidation States in Catalytic Hydrogenation Intermediates. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	0
10	Reversible Insertion of Carbenes into Ruthenium-Silicon Bonds. <i>Journal of the American Chemical Society</i> , 2013, 135, 19008-19015.	13.7	47
11	Iridium Complexes of the Doubly Cyclometalated NHC Ligand IMes ² . <i>Journal of the American Chemical Society</i> , 2011, 133, 9738-9740.	13.7	42
12	Tridentate chiral NPN ligands based on bis(oxazolines) and their use in Pd-catalyzed enantioselective allylic substitution in molecular and ionic liquids. <i>Tetrahedron</i> , 2011, 67, 5402-5408.	1.9	32
13	Reversible Insertion of Aldehydes and Ketones into C-H Bonds of Chiral Bis(oxazoline)/Iridium Complexes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3240-3243.	13.8	11
14	Iridium Compounds with ^η P,P,Si (biPSi) Pincer Ligands: Favoring Reactive Structures in Unsaturated Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 9111-9121.	13.7	61
15	Versatile ^η 2, ^η 2-C Ligands Assembled at Iridium via [2+2] Oxidative Cyclization. <i>Organometallics</i> , 2010, 29, 3201-3209.	2.3	6
16	Addition of Water Across Si-Ir Bonds in Iridium Complexes with ^η P,P,Si (biPSi) Pincer Ligands. <i>Inorganic Chemistry</i> , 2010, 49, 10649-10657.	4.0	29
17	Labile <i>N</i> -Heterocyclic Carbene Complexes of Iridium. <i>Organometallics</i> , 2009, 28, 863-870.	2.3	74
18	Water-Soluble Triisopropylphosphine Complexes of Ruthenium(II): Synthesis, Equilibria, and Acetonitrile Hydration. <i>Organometallics</i> , 2009, 28, 561-566.	2.3	25

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19	Methoxycarbonylation of olefins catalyzed by palladium complexes bearing P,N-donor ligands. Dalton Transactions, 2007, , 5419.	3.3	58
20	Recent developments on hydride iridium triisopropylphosphine complexes: [IrH ₂ (NCCH ₃) ₃ (PiPr ₃)]BF ₄ as hydrogenation catalyst. Special Publication - Royal Society of Chemistry, 2007, , 297-305.	0.0	0
21	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
22	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Cationic Iridium Complexes. Chemistry - A European Journal, 2006, 12, 4043-4056.	3.3	53
23	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Dinuclear Iridium Complexes. Chemistry - A European Journal, 2006, 12, 4057-4068.	3.3	44
24	Dimetallic Dioxygen Activation Leading to a Doubly Oxygen-Bridged Dirhodium Complex. Angewandte Chemie - International Edition, 2005, 44, 3267-3271.	13.8	38
25	Iridium Complexes with N-Allyl-Substituted Benzimidazol-2-ylidene Ligands and Their Application in Catalytic Transfer Hydrogenation. Organometallics, 2005, 24, 2203-2209.	2.3	177
26	C ^α -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
27	Reactions of Diamidonaphthalene-Bridged Diiridium Tetrahydrides with Alkynes: α -Hydrogenation, Vinylidene Formation, and Catalytic C ^α -C Coupling. Organometallics, 2005, 24, 2722-2729.	2.3	65
28	Benzene-1,2-dithiolate-induced assembly of reactive iridium fragments into tetranuclear octahydride complexes. Inorganica Chimica Acta, 2004, 357, 1948-1954.	2.4	3
29	C ^α -H Activation and C ^α -C Coupling Reactions in 2-Vinylpyridine Cationic Complexes of Iridium. Organometallics, 2004, 23, 1908-1917.	2.3	38
30	Unusual 1-Alkyne Dimerization/Hydrogenation Sequences Catalyzed by [Ir(H) ₂ (NCCH ₃) ₃ (P-i-Pr ₃)]BF ₄ : Evidence for Homogeneous-Like Mechanism in Imidazolium Salts. Advanced Synthesis and Catalysis, 2003, 345, 280-288.	4.3	32
31	Methylene- and diamidonaphthalene-bridged diiridium(III) complexes. Inorganica Chimica Acta, 2003, 350, 266-276.	2.4	4
32	Versatility of Cyclooctadiene Ligands in Iridium Chemistry and Catalysis. Organometallics, 2003, 22, 5406-5417.	2.3	78
33	Synthesis, Molecular Structure, and Reactivity of Iridium(I) and Iridium(III) Complexes Formed by Coordination and C ^α -H Activation of the Substituted Arenes C ₆ H ₅ CH ₂ CH ₂ PiPr ₂ and C ₆ H ₅ OCH ₂ CH ₂ PtBu ₂ . Organometallics, 2003, 22, 2151-2160.	2.3	18
34	Trans Additions of Silanes to 1-Alkynes Catalyzed by Ruthenium Complexes: α -Role of in Situ Formed Polynuclear Aggregates. Organometallics, 2002, 21, 4027-4029.	2.3	38
35	Sequential C ^α -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
36	Alkene C ^α -H Activations at Dinuclear Complexes Promoted by Oxidation. Angewandte Chemie - International Edition, 2002, 41, 1208-1211.	13.8	17

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37	Is the transeffect an applicable concept in di- and polynuclear metal complexes?. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2002, 58, c323-c323.	0.3	0
38	New Dihydrider ^π and Alkene ^π -6-Arene Complexes of Iridium. <i>Organometallics</i> , 2001, 20, 2716-2724.	2.3	40
39	Transmission of Trans Effects in Dinuclear Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11925-11932.	13.7	32
40	Mechanistic Aspects of Dihydrogen Activation and Catalysis by Dinuclear Complexes. , 2001, , 299-327.		10
41	Evidence for a Dinuclear Mechanism in Alkyne Hydrogenations Catalyzed by Pyrazolate-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 2000, 6, 2120-2128.	3.3	30
42	Key Factors Determining the Course of Methyl Iodide Oxidative Addition to Diamidonaphthalene-Bridged Diiridium(I) and Dirhodium(I) Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 4868-4878.	4.0	36
43	C ^σ -H Bond Activations by New Labile η^6 -Arene Complexes of Iridium. <i>Journal of the American Chemical Society</i> , 1999, 121, 10632-10633.	13.7	31
44	Competitive Reaction Pathways in the Addition of Phenylacetylene to Diamidonaphthalene-Bridged Diiridium Complexes ^σ . <i>Organometallics</i> , 1999, 18, 1125-1136.	2.3	56
45	Labile Hydrido Complexes of Iridium(III): ^σ Synthesis, Dynamic Behavior in Solution, and Reactivity toward Alkenes. <i>Organometallics</i> , 1999, 18, 3534-3546.	2.3	43
46	Thermally Activated Site Exchange and Quantum Exchange Coupling Processes in Unsymmetrical Trihydride Osmium Compounds. <i>Inorganic Chemistry</i> , 1999, 38, 1814-1824.	4.0	38
47	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1398-1410.	3.3	44
48	Synthesis of [Ir ₂ (η^1 -Pz) ₂ (CH ₃)(CO) ₂ (PiPr ₃) ₂] ⁺ . A key intermediate in S _N 2 oxidative addition of halocarbons to dinuclear complexes. <i>Inorganic Chemistry Communication</i> , 1998, 1, 64-67.	3.9	27
49	Cooperative Bimetallic Effects on New Iridium(III) Pyrazolate Complexes: ^σ Hydrogen ^σ Hydrogen, Carbon ^σ Hydrogen, and Carbon ^σ Chlorine Bond Activations. <i>Organometallics</i> , 1998, 17, 683-696.	2.3	79
50	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1398-1410.	3.3	1
51	Synthesis and reactivity of [Os ^σ H{C ₆ H ₄ (CH ₂ CH ₂ H)}(CO)(PPri ₃) ₂] and the formato compounds [Os ^σ (^σ -CH ₂ CHPh)(η^1 -O ₂ CH)(CO)(PPri ₃) ₂] and [OsH(η^1 -O ₂ CH)(CO)(PPri ₃) ₂] [*] . <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 181-192.	1.1	31
52	Carbon ^σ Carbon Coupling of Two Alkenyl Fragments on a Saturated Compound. <i>Organometallics</i> , 1997, 16, 2919-2928.	2.3	55
53	Carbon ^σ Carbon Coupling and Carbon ^σ Hydrogen Activation Reactions in Bis(triisopropylphosphine)osmium Complexes ^σ . <i>Journal of the American Chemical Society</i> , 1996, 118, 89-99.	13.7	68
54	Quantum Mechanical Exchange Coupling in Trihydridoosmium Complexes Containing Azole Ligands. <i>Inorganic Chemistry</i> , 1996, 35, 7811-7817.	4.0	62

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55	Oxidative Addition of Group 14 Element Hydrido Compounds to $\text{OsH}_2(\text{I}^2\text{-CH}_2\text{CHEt})(\text{CO})(\text{PiPr}_3)_2$: Synthesis and Characterization of the First Trihydrido π -Silyl, Trihydrido π -Germyl, and Trihydrido π -Stannyl Derivatives of Osmium(IV). <i>Inorganic Chemistry</i> , 1996, 35, 1250-1256.	4.0	52
56	Dynamic Behavior in Solution of the <i>Trans</i> - π -Hydridodihydrogen Complex [$\text{OsHCl}(\text{I}^2\text{-C}_2\text{H}_4)(\text{CO})(\text{P}(\text{iPr})_3)_2$]: Ab Initio and NMR Studies. <i>Chemistry - A European Journal</i> , 1996, 2, 815-825.	3.3	56
57	Synthesis of Butadiene-Osmium(0) and -Ruthenium(0) Complexes by Reductive Carbon-Carbon Coupling of Two Alkenyl Fragments. <i>Organometallics</i> , 1995, 14, 4825-4831.	2.3	43
58	Synthesis, characterization, and reactivity of rhodium carboxylate dimers [$\text{Rh}(\mu\text{-OOCCH}_3)(\text{CO})(\text{PCy}_3)_2$] (R = H, F). X-ray crystal structure of [$\text{Rh}_2(\mu\text{-OOCCH}_3)(\mu\text{-}1,2\text{-C}_2\text{Ph})(\text{CO})_2(\text{PCy}_3)_2$]. <i>Organometallics</i> , 1993, 12, 266-275.	2.3	26
59	Rectangular and hexagonal columnar mesophases in dinuclear rhodium(II) (alkoxy)benzoate complexes. <i>Inorganic Chemistry</i> , 1992, 31, 732-737.	4.0	41
60	Synthesis, molecular structure and reactivity of the octahedral iridium(III) compound [$\text{IrH}(\eta\text{-}1,3\text{-C}_8\text{H}_{12})(\text{dppm})$] [dppm = bis(diphenylphosphino)methane]. <i>Organometallics</i> , 1992, 11, 3659-3664.	2.3	28
61	Transition metal liquid crystals: advanced materials within the reach of the coordination chemist. <i>Coordination Chemistry Reviews</i> , 1992, 117, 215-274.	18.8	460
62	Synthesis and mesomorphism of stilbazole complexes of rhodium(I) and iridium(I). <i>Journal of Materials Chemistry</i> , 1991, 1, 251.	6.7	47
63	Rhodium complexes containing 1-(4-pyridylmethylene)-4-alkoxyanilines as ligands: crystal structure of an unusual square-planar cluster of 64 electrons, $\text{Rh}_4(\text{OOCCH}_3)_4(\text{CO})_4(\text{NC}_5\text{H}_4\text{CH}:\text{NC}_6\text{H}_4\text{OC}_{14}\text{H}_{29})_4$. <i>Organometallics</i> , 1991, 10, 1794-1799.	2.3	33
64	Rhodium(I) complexes containing 4-pyridylmethylene-4-alkoxyanilines as ligands: Formation of rhodium containing liquid crystals by coordination of non-mesogenic organic ligands. <i>Journal of Organometallic Chemistry</i> , 1990, 387, 103-111.	1.8	32
65	Liquid-crystal behavior in ionic complexes of silver(I): molecular structure-mesogenic activity relationship. <i>Chemistry of Materials</i> , 1990, 2, 748-758.	6.7	46
66	Bis-alkynyl- and hydrido-alkynyl-osmium(II) and ruthenium(II) complexes containing triisopropylphosphine as ligand. <i>Journal of Organometallic Chemistry</i> , 1989, 366, 187-196.	1.8	57
67	The reduction of π -unsaturated ketones and cyclohexadienes catalyzed by $\text{M}(\text{CO})(\text{PiPr}_3)_2$ (M = Ru, Ir) Tj ETQq1_1.0.784314 rgBT / 1.2 52		
68	Kinetic and mechanistic investigation of the sequential hydrogenation of phenylacetylene catalyzed by $\text{OsHCl}(\text{CO})(\text{PR}_3)_2$ [PR ₃ = PMe- <i>tert</i> -Bu ₂ and P- <i>i</i> -Pr ₃]. <i>Journal of the American Chemical Society</i> , 1989, 111, 7431-7437.	13.7	136
69	Nematic phases in ionic melts: mesogenic ionic complexes of silver(I). <i>Chemistry of Materials</i> , 1989, 1, 479-481.	6.7	35
70	Iridium liquid crystal complexes by co-ordination of non-mesogenic organic ligands. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 55.	2.0	28
71	Coordination of H ₂ and O ₂ to $[\text{OsHCl}(\text{CO})(\text{PiPr}_3)_2]$: A Catalytically Active $\text{M}(\text{I}^2\text{-H}_2)$ Complex. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 1563-1564.	4.4	78
72	$\text{MHCl}(\text{CO})(\text{PiPr}_3)_2$ (M = Ru, Os) complexes as catalyst precursors for the reduction of unsaturated substrates. <i>Journal of Molecular Catalysis</i> , 1988, 45, 1-5.	1.2	72