Fernando VillafaÃ±e

List of Publications by Year
in descending order

77	1,391	331259 21	433756 31
papers	citations	h-index	g-index

79	79	79	1190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization and Properties of Water-Blown Rigid Polyurethane Foams Reinforced with Silane-Modified Nanosepiolites Functionalized with Graphite. Materials, 2022, 15, 381.	1.3	5
2	Optical Properties of Polyisocyanurateâ€“Polyurethane Aerogels: Study of the Scattering Mechanisms. Nanomaterials, 2022, 12, 1522.	1.9	10
3	Improving the Insulating Capacity of Polyurethane Foams through Polyurethane Aerogel Inclusion: From Insulation to Superinsulation. Nanomaterials, 2022, 12, 2232.	1.9	8
4	Super-Insulating Transparent Polyisocyanurate-Polyurethane Aerogels: Analysis of Thermal Conductivity and Mechanical Properties. Nanomaterials, 2022, 12, 2409.	1.9	6
5	Luminescent cis-Bis(bipyridyl)ruthenium(II) Complexes with 1,2-Azolylamidino Ligands: Photophysical, Electrochemical Studies, and Photocatalytic Oxidation of Thioethers. Inorganic Chemistry, 2021, 60, 7008-7022.	1.9	3
6	Nanoparticles Addition in PU Foams: The Dramatic Effect of Trapped-Air on Nucleation. Polymers, 2021, 13, 2952.	2.0	16
7	Transparent Polyisocyanurate-Polyurethane-Based Aerogels: Key Aspects on the Synthesis and Their Porous Structures. ACS Applied Polymer Materials, 2021, 3, 4607-4615.	2.0	13
8	(1,2-Azole)bis(bipyridyl)ruthenium(II) Complexes: Electrochemistry, Luminescent Properties, And Electro- And Photocatalysts for CO₂ Reduction. Inorganic Chemistry, 2021, 60, 692-704.	1.9	13
9	Luminescent Rhenium(I)tricarbonyl Complexes Containing Different Pyrazoles and Their Successive Deprotonation Products: CO₂ Reduction Electrocatalysts. Inorganic Chemistry, 2020, 59, 11152-11165.	1.9	17
10	Synergistic effect of expandable graphite and phenylphosphonic-aniline salt on flame retardancy of rigid polyurethane foam. Polymer Degradation and Stability, 2020, 179, 109274.	2.7	34
11	Identification by <scp>NMR</scp> of key compounds present in beer distillates and residual phases after dealcoholization by vacuum distillation. Journal of the Science of Food and Agriculture, 2020, 100, 3971-3978.	1.7	2
12	Identification and Quantification of Cell Gas Evolution in Rigid Polyurethane Foams by Novel GCMS Methodology. Polymers, 2019, 11, 1192.	2.0	8
13	Longâ€term thermal conductivity of cyclopentaneâ€“water blown rigid polyurethane foams reinforced with different types of fillers. Polymer International, 2019, 68, 1826-1835.	1.6	13
14	Influence of the Characteristics of Expandable Graphite on the Morphology, Thermal Properties, Fire Behaviour and Compression Performance of a Rigid Polyurethane Foam. Polymers, 2019, 11, 168.	2.0	50
15	X-ray radioscopy validation of a polyol functionalized with graphene oxide for producing rigid polyurethane foams with improved cellular structures. European Polymer Journal, 2019, 118, 404-411.	2.6	4
16	Whole microwave syntheses of pyridylpyrazole and of Re and Ru luminescent pyridylpyrazole complexes. Inorganica Chimica Acta, 2019, 484, 1-7.	1.2	8
17	Improvement of thermal and mechanical properties by control of formulations in rigid polyurethane foams from polyols functionalized with graphene oxide. Journal of Applied Polymer Science, 2019, 136, 47474.	1.3	10
18	Impact of expandable graphite on flame retardancy and mechanical properties of rigid polyurethane foam. Polymer Composites, 2019, 40, E1705.	2.3	17

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19	Infrared expandometry: A novel methodology to monitor the expansion kinetics of cellular materials produced with exothermic foaming mechanisms. Polymer Testing, 2018, 66, 383-393.	2.3	9
20	Nuclear Magnetic Resonance Methodology for the Analysis of Regular and Non-Alcoholic Lager Beers. Food Analytical Methods, 2018, 11, 11-22.	1.3	9
21	Evaluation of the thermal conductivity and mechanical properties of water blown polyurethane rigid foams reinforced with carbon nanofibers. European Polymer Journal, 2018, 108, 98-106.	2.6	38
22	The effects of functional nanofillers on the reaction kinetics, microstructure, thermal and mechanical properties of water blown rigid polyurethane foams. Polymer, 2018, 150, 138-149.	1.8	50
23	Edible coatings for carrots. Food Reviews International, 2017, 33, 84-103.	4.3	21
24	Re I (CO) 3 complexes with diimine ligands synthesized in situ. Coordination Chemistry Reviews, 2017, 339, 128-137.	9.5	16
25	Synthesis, characterization and physical properties of rigid polyurethane foams prepared with poly(propylene oxide) polyols containing graphene oxide. European Polymer Journal, 2017, 97, 230-240.	2.6	32
26	Syntheses, solid structures, and behavior in solution of [MI2(CO)3(pyrazole)2] complexes (M = Mo, W). Inorganica Chimica Acta, 2017, 456, 9-17.	1.2	2
27	Rigid polyurethane foams with infused nanoclays: Relationship between cellular structure and thermal conductivity. European Polymer Journal, 2016, 80, 1-15.	2.6	93
28	Amidino ligands obtained from the coupling of 1-methylcytosine and nitrile: a new method to incorporate biomolecules into luminescent Re(CO)3 complexes. Dalton Transactions, 2015, 44, 17478-17481.	1.6	8
29	Luminescent rhenium(i) tricarbonyl complexes with pyrazolylamidino ligands: photophysical, electrochemical, and computational studies. Dalton Transactions, 2015, 44, 17516-17528.	1.6	32
30	Structural Consequences of an Extreme Difference between the Trans Influence of the Donor Atoms in a Palladacycle. Organometallics, 2014, 33, 7329-7332.	1.1	7
31	Pyrazolylamidino Ligands from Coupling of Acetonitrile and Pyrazoles: A Systematic Study. Inorganic Chemistry, 2014, 53, 12437-12448.	1.9	19
32	Homo- and heteropolymetallic 3-(2-pyridyl)pyrazolate manganese and rhenium complexes. Dalton Transactions, 2014, 43, 4009-4020.	1.6	13
33	Dynamic behavior in solution of seven-coordinated transition metal complexes. Coordination Chemistry Reviews, 2014, 281, 86-99.	9.5	12
34	Reactivity of Silyl-Substituted Ironâ€“Platinum Hydride Complexes toward Unsaturated Molecules: 4. Insertion of Fluorinated Aromatic Alkynes into the Platinumâ€“Hydride Bond. Synthesis and Reactivity of Heterobimetallic Dimetallacylopentenone, Dimetallacyclobutene, Î¼-Vinylidene, and Î¼₂-Ïƒ-Alkenyl Complexes. Organometallics, 2013, 32, 5343-5359.	1.1	15
35	[Pd(Fmes)₂(tmeda)]: A Case of Intermittent Cï£¿Hâ‹…â‹…â‹…Fï£¿C Hydrogenâ€Bond Interaction in Solution. Chemistry - A European Journal, 2013, 19, 3702-3709.	1.7	8
36	Triple bridged anionic dimetallic complexes from cis-[Mo(Î·3-methallyl)Cl(CO)2(NCMe)2] and pyrazolates. Journal of Organometallic Chemistry, 2012, 713, 68-71.	0.8	1

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37	(Piperidinomethyl)silylmethyl cyclopalladated complexes with amino acidato ligands. Journal of Organometallic Chemistry, 2012, 719, 18-20.	0.8	1
38	Coordination versus Coupling of Dicyanamide in Molybdenum and Manganese Pyrazole Complexes. Inorganic Chemistry, 2012, 51, 6070-6080.	1.9	10
39	Bridging Pseudohalides in Palladacycles as a Source of Different Assemblies. European Journal of Inorganic Chemistry, 2012, 2012, 3302-3307.	1.0	1
40	Syntheses, Dynamic Behaviour and Theoretical Studies of [(Piperidinomethyl)silyl]methylâ€Cyclopalladated Dimetallic Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 3427-3434.	1.0	5
41	Molybdenum- and tungsten(ii) monometallic 3-(2-pyridyl)pyrazole and bimetallic 3-(2-pyridyl)pyrazolate complexes. Dalton Transactions, 2012, 41, 7017.	1.6	13
42	Tetranuclear organometallic complexes containing Mo2O42+ and allylmolybdenum(ii) moieties. Dalton Transactions, 2010, 39, 10099.	1.6	10
43	fac-Acetato-bis(pyrazole) complexes: A systematic study on intra- and intermolecular hydrogen bonds. Journal of Organometallic Chemistry, 2009, 694, 3190-3199.	0.8	7
44	Where Is Ozone in the Frost Diagram?. Journal of Chemical Education, 2009, 86, 432.	1.1	2
45	Non-covalent interactions at bis(pyrazole)silver(i) or -gold(i) cations. Dalton Transactions, 2009, , 2135.	1.6	17
46	Manganese cationic pyrazolylamidino complexes. Journal of Organometallic Chemistry, 2008, 693, 3074-3080.	0.8	15
47	Mono- and di-nuclear 2,3-diazabutadiene and 2-azabutadiene complexes of Rhenium(I): Syntheses, luminescence spectra and X-ray structures. Inorganic Chemistry Communication, 2008, 11, 1060-1063.	1.8	4
48	(2,2â€Dibromovinyl)ferrocene as a Building Block for the Assembly of Heterodinuclear Complexes â€“ Preparation of an Ïƒâ€Alkenylpalladium Complex and Dimetallic Dithioether Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 5052-5061.	1.0	16
49	Rhenium-Mediated Coupling of Acetonitrile and Pyrazoles. New Molecular Clefts for Anion BindingÂ§. Inorganic Chemistry, 2006, 45, 7018-7026.	1.9	45
50	Reactivity of silyl-substituted heterobimetallic ironâ€“platinum hydride complexes: Part III. Alkyne insertions into the platinumâ€“hydride bond and competition between Î¼-vinylidene and dimetallacyclopentenone formation. Inorganic Chemistry Communication, 2006, 9, 127-131.	1.8	16
51	Cationic (fluoromesityl)palladium(II) complexes. Journal of Organometallic Chemistry, 2006, 691, 3862-3873.	0.8	2
52	Reactivity of silyl-substituted heterobimetallic ironâ€“platinum hydride complexes towards unsaturated molecules: Part II. Insertion of trifluoropropyne and hexafluorobutyne into the platinumâ€“hydride bond. Journal of Organometallic Chemistry, 2005, 690, 1456-1466.	0.8	16
53	Pyrazolylamidino- and Bis(pyrazole)manganese(I) Complexes. European Journal of Inorganic Chemistry, 2005, 2005, 4430-4437.	1.0	23
54	Bis(fluoromesityl) Palladium Complexes, Archetypes of Steric Crowding and Axial Protection byortho Effectâ˜† Evidence for Dissociative Substitution Processesâ˜† Observation of19Fâ˜†19F Through-Space Couplings. European Journal of Inorganic Chemistry, 2004, 2004, 2326-2337.	1.0	23

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55	[(Piperidinomethyl)silylmethyl] Cyclopalladated Complexes:Â Their Synthesis, Reactivity, and Solid State StructuresâŠ¥. Organometallics, 2004, 23, 3228-3238.	1.1	16
56	Monoarylated Fluoromesitylpalladium Complexes. European Journal of Inorganic Chemistry, 2003, 2003, 3127-3138.	1.0	20
57	Synthesis of (Î·3-Allyl)bromodicarbonylbis(pyrazole)molybdenum(II) and Reactivity towards [Au(acac)PPh3]: Structure and Dynamic Behavior of the Monometallic Pyrazole and Heterometallic Pyrazolate Complexes. European Journal of Inorganic Chemistry, 2003, 2003, 995-1004.	1.0	20
58	[Pd(Fmes)I{NMe2(CH2-o-C6H4-I)-N,I}], a palladium(II) complex with Iâ^' and organic iodide as trans ligands. Inorganica Chimica Acta, 2003, 347, 49-52.	1.2	18
59	The first pyrazole molybdenum(0) complexes: cis-[Mo(CO)4(Hdmpz)2] crystallizes as a Nî—¸Hâ‹¯OC hydrogen-bonded dimer. Journal of Organometallic Chemistry, 2003, 667, 120-125.	0.8	12
60	Neutral Organometallic Palladium(II) Aquo Complexes. Organometallics, 2002, 21, 3536-3543.	1.1	28
61	Enantiomerically enriched â€˜carbanionsâ€™:. Journal of Organometallic Chemistry, 2002, 661, 149-158.	0.8	26
62	Self-Assembly of Pyramidal Tetrapalladium Complexes with a Halide at the Apex. Angewandte Chemie - International Edition, 2001, 40, 2521-2524.	7.2	17
63	[2,4,6-Tris(trifluoromethyl)phenyl]gold(I) and -gold(III) Complexes. Organometallics, 2000, 19, 290-295.	1.1	27
64	Structure and Dynamic Behavior of (Î·3-Allyl)bromodicarbonylmolybdenum(II) Complexes Containing Polydentate 2-Pyridylphosphanes or Their Oxides as Chelating Ligands: Occurrence of Three Fluxional Processes. European Journal of Inorganic Chemistry, 2000, 2000, 1031-1038.	1.0	54
65	Oxidative Additions of Coordinated Ligands at Unsaturated Molybdenum and Tungsten Diphosphine-Bridged Carbonyl Dimers. 2. Decarbonylation Reactions of [Mo2(Î·5-C5H4R)2(CO)4(Î¼-Ph2PCH2PPh2)] (R = H, Me). Organometallics, 1997, 16, 624-631.	1.1	32
66	Poly(2-pyridyl)phosphines, PPynPh3-n(n= 2, 3), and Their P-Substituted Derivatives as Tripodal Ligands in Molybdenum(0) Carbonyl Complexes. Inorganic Chemistry, 1997, 36, 44-49.	1.9	34
67	(2,4,6-Tris(trifluoromethyl)phenyl)palladium(II) Complexes. Organometallics, 1996, 15, 2019-2028.	1.1	42
68	A Warning for Frost Diagrams Users. Journal of Chemical Education, 1994, 71, 480.	1.1	5
69	Phenylbis(2- pyridyl)phosphine: P- vs. N,Nâ€²-coordination in carbonylmolybdenum-(O) and -(II) complexes. Journal of Organometallic Chemistry, 1993, 450, 145-150.	0.8	21
70	Reactivity of (.mu.-CH2PPh2)(.mu.-PPh2)Mo2Cp2(CO)2 (Mo:Mo) toward iodine and chalcogens. Crystal structure of (.mu.-O)[CpMo(.mu.-CH2PPh2)(.mu.-O)(.mu.-OPPh2)MoCp(CO)]2. Organometallics, 1993, 12, 124-132.	1.1	27
71	Reactions of 2-furyl, 2-thienyl, and N-methyl-2-pyrrolyl mercurials with [Et3NH][(.mu.-CO)(.mu.-RS)Fe2(CO)6] complexes. Synthesis of Fe2(CO)6 complexes with bridging .eta.1:.eta.2-furyl and thienyl ligands. Organometallics, 1992, 11, 3262-3271.	1.1	29
72	Binuclear cyclopentadienyl carbonyl complexes of molybdenum(I) with bidentate phosphorus bridging ligands: synthesis and reactions leading to new dimolybdenum(II) complexes. Organometallics, 1992, 11, 2854-2863.	1.1	31

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73	The synthesis and structure of (.mu.-.eta.2,.eta.3-pentadienyl)(.mu.-alkanethiolato)pentacarbonyldiiron (Fe-Fe) complexes. An unusual bonding mode for the pentadienyl group. Journal of the American Chemical Society, 1992, 114, 4594-4601.	6.6	13
74	Synthesis, crystal structure and heterometallic derivatives of [Mo2Cp2(Î¼-Ïƒ,Ï€-CNtBu)(PPh2CH2PPh2-P)(CO)3] (tBu = C(CH3)3, Cp = Î·-C5H5). Journal of Organometallic Chemistry, 1990, 382, 407-417.	0.8	21
75	Synthesis and reactivity of the unsaturated dimolybdenum compound [Mo2(Î·-C5H5)2(Î¼-CH2PPh2)(Î¼-PPh2)(CO)2]. Crystal structure of [Mo2(Î·-C5H5)2(Î¼-I)(Î¼-CH2PPh2)-(Î¼-PPh2)(CO)2][TlI4]Â·CH2Cl2. Journal of Organometallic Chemistry, 1989, 375, C23-C26.	0.8	21
76	Preparation of some reactions of [Mo2(Î·-C5H5)2(CO)4-(Î¼-Ph2PCH2PPh2)], a useful precursor for new dimolybdenum (II) complexes. Crystal structure of [Mo2(Î¼-C5H5)2(CO)4(Î¼-H)(Î¼-Ph2PCH2PPh2)]2-[Mo6O19]Â·4C4H8O. Journal of Organometallic Chemistry, 1988, 345, C4-C8.	0.8	10
77	Synthesis of mer-tricarbonyls of manganese(I) with N-donor chelate ligands. Journal of Organometallic Chemistry, 1984, 276, 39-45.	0.8	18