

Fernando Villafañe

List of Publications by Year in descending order

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331259

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Rigid polyurethane foams with infused nanoclays: Relationship between cellular structure and thermal conductivity. <i>European Polymer Journal</i> , 2016, 80, 1-15.	2.6	93
2	Structure and Dynamic Behavior of (η^3 -Allyl)bromodicarbonylmolybdenum(II) Complexes Containing Polydentate 2-Pyridylphosphanes or Their Oxides as Chelating Ligands: Occurrence of Three Fluxional Processes. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 1031-1038.	1.0	54
3	The effects of functional nanofillers on the reaction kinetics, microstructure, thermal and mechanical properties of water blown rigid polyurethane foams. <i>Polymer</i> , 2018, 150, 138-149.	1.8	50
4	Influence of the Characteristics of Expandable Graphite on the Morphology, Thermal Properties, Fire Behaviour and Compression Performance of a Rigid Polyurethane Foam. <i>Polymers</i> , 2019, 11, 168.	2.0	50
5	Rhenium-Mediated Coupling of Acetonitrile and Pyrazoles. <i>New Molecular Clefs for Anion Binding</i> . <i>Inorganic Chemistry</i> , 2006, 45, 7018-7026.	1.9	45
6	(2,4,6-Tris(trifluoromethyl)phenyl)palladium(II) Complexes. <i>Organometallics</i> , 1996, 15, 2019-2028.	1.1	42
7	Evaluation of the thermal conductivity and mechanical properties of water blown polyurethane rigid foams reinforced with carbon nanofibers. <i>European Polymer Journal</i> , 2018, 108, 98-106.	2.6	38
8	Poly(2-pyridyl)phosphines, PPyPh _{3-n} (n= 2, 3), and Their P-Substituted Derivatives as Tripodal Ligands in Molybdenum(0) Carbonyl Complexes. <i>Inorganic Chemistry</i> , 1997, 36, 44-49.	1.9	34
9	Synergistic effect of expandable graphite and phenylphosphonic-aniline salt on flame retardancy of rigid polyurethane foam. <i>Polymer Degradation and Stability</i> , 2020, 179, 109274.	2.7	34
10	Oxidative Additions of Coordinated Ligands at Unsaturated Molybdenum and Tungsten Diphosphine-Bridged Carbonyl Dimers. 2. Decarbonylation Reactions of [Mo(η^5 -C ₅ H ₄ R) ₂ (CO) ₄ (η^4 -Ph ₂ PCH ₂ PPh ₂)] (R = H, Me). <i>Organometallics</i> , 1997, 16, 624-631.	1.1	32
11	Luminescent rhenium(i) tricarbonyl complexes with pyrazolylamidino ligands: photophysical, electrochemical, and computational studies. <i>Dalton Transactions</i> , 2015, 44, 17516-17528.	1.6	32
12	Synthesis, characterization and physical properties of rigid polyurethane foams prepared with poly(propylene oxide) polyols containing graphene oxide. <i>European Polymer Journal</i> , 2017, 97, 230-240.	2.6	32
13	Binuclear cyclopentadienyl carbonyl complexes of molybdenum(I) with bidentate phosphorus bridging ligands: synthesis and reactions leading to new dimolybdenum(II) complexes. <i>Organometallics</i> , 1992, 11, 2854-2863.	1.1	31
14	Reactions of 2-furyl, 2-thienyl, and N-methyl-2-pyrrolyl mercurials with [Et ₃ NH][(μ -CO)(μ -RS)Fe ₂ (CO) ₆] complexes. Synthesis of Fe ₂ (CO) ₆ complexes with bridging η^1 : η^1 : η^2 -2-furyl and thienyl ligands. <i>Organometallics</i> , 1992, 11, 3262-3271.	1.1	29
15	Neutral Organometallic Palladium(II) Aquo Complexes. <i>Organometallics</i> , 2002, 21, 3536-3543.	1.1	28
16	Reactivity of (μ -CH ₂ PPh ₂)(μ -PPh ₂)Mo ₂ Cp ₂ (CO) ₂ (Mo:Mo) toward iodine and chalcogens. Crystal structure of (μ -O)[CpMo(μ -CH ₂ PPh ₂)(μ -O)(μ -OPPh ₂)MoCp(CO)] ₂ . <i>Organometallics</i> , 1993, 12, 124-132.	1.1	27
17	[2,4,6-Tris(trifluoromethyl)phenyl]gold(I) and -gold(III) Complexes. <i>Organometallics</i> , 2000, 19, 290-295.	1.1	27
18	Enantiomerically enriched β -carbanions TM . <i>Journal of Organometallic Chemistry</i> , 2002, 661, 149-158.	0.8	26

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19	Bis(fluoromesityl) Palladium Complexes, Archetypes of Steric Crowding and Axial Protection by ortho Effect – Evidence for Dissociative Substitution Processes – Observation of ^{19}F – ^{19}F Through-Space Couplings. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2326-2337.	1.0	23
20	Pyrazolylamidino- and Bis(pyrazole)manganese(I) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4430-4437.	1.0	23
21	Synthesis and reactivity of the unsaturated dimolybdenum compound $[\text{Mo}_2(\text{C}_5\text{H}_5)_2(\text{C}_6\text{H}_4\text{PPh}_2)_2(\text{CO})_2]$. Crystal structure of $[\text{Mo}_2(\text{C}_5\text{H}_5)_2(\text{C}_6\text{H}_4\text{PPh}_2)_2(\text{CO})_2]$ $[\text{TiI}_4]\cdot\text{CH}_2\text{Cl}_2$. <i>Journal of Organometallic Chemistry</i> , 1989, 375, C23-C26.	0.8	21
22	Synthesis, crystal structure and heterometallic derivatives of $[\text{Mo}_2\text{Cp}_2(\text{C}_6\text{H}_4\text{PPh}_2)_2(\text{CO})_3]$ (tBu = C(CH ₃) ₃ , Cp = C_5H_5). <i>Journal of Organometallic Chemistry</i> , 1990, 382, 407-417.	0.8	21
23	Phenylbis(2-pyridyl)phosphine: P- vs. N,N ² -coordination in carbonylmolybdenum-(0) and -(II) complexes. <i>Journal of Organometallic Chemistry</i> , 1993, 450, 145-150.	0.8	21
24	Edible coatings for carrots. <i>Food Reviews International</i> , 2017, 33, 84-103.	4.3	21
25	Monoarylated Fluoromesitylpalladium Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3127-3138.	1.0	20
26	Synthesis of (3-Allyl)bromodicarbonylbis(pyrazole)molybdenum(II) and Reactivity towards $[\text{Au}(\text{acac})\text{PPh}_3]$: Structure and Dynamic Behavior of the Monometallic Pyrazole and Heterometallic Pyrazolate Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 995-1004.	1.0	20
27	Pyrazolylamidino Ligands from Coupling of Acetonitrile and Pyrazoles: A Systematic Study. <i>Inorganic Chemistry</i> , 2014, 53, 12437-12448.	1.9	19
28	Synthesis of mer-tricarbonyls of manganese(I) with N-donor chelate ligands. <i>Journal of Organometallic Chemistry</i> , 1984, 276, 39-45.	0.8	18
29	$[\text{Pd}(\text{Fmes})\text{I}\{\text{NMe}_2(\text{CH}_2\text{-o-C}_6\text{H}_4\text{-I)-N,I}\}]$, a palladium(II) complex with I^- and organic iodide as trans ligands. <i>Inorganica Chimica Acta</i> , 2003, 347, 49-52.	1.2	18
30	Self-Assembly of Pyramidal Tetrapalladium Complexes with a Halide at the Apex. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2521-2524.	7.2	17
31	Non-covalent interactions at bis(pyrazole)silver(i) or -gold(i) cations. <i>Dalton Transactions</i> , 2009, , 2135.	1.6	17
32	Impact of expandable graphite on flame retardancy and mechanical properties of rigid polyurethane foam. <i>Polymer Composites</i> , 2019, 40, E1705.	2.3	17
33	Luminescent Rhenium(I)tricarbonyl Complexes Containing Different Pyrazoles and Their Successive Deprotonation Products: CO Reduction Electrocatalysts. <i>Inorganic Chemistry</i> , 2020, 59, 11152-11165.	1.9	17
34	$[(\text{Piperidinomethyl})\text{silylmethyl}]$ Cyclopalladated Complexes: Their Synthesis, Reactivity, and Solid State Structures. <i>Organometallics</i> , 2004, 23, 3228-3238.	1.1	16
35	Reactivity of silyl-substituted heterobimetallic iron-platinum hydride complexes towards unsaturated molecules: Part II. Insertion of trifluoropropyne and hexafluorobutyne into the platinum-hydride bond. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 1456-1466.	0.8	16
36	Reactivity of silyl-substituted heterobimetallic iron-platinum hydride complexes: Part III. Alkyne insertions into the platinum-hydride bond and competition between C_3H_4 -vinylidene and dimetallacyclopentenone formation. <i>Inorganic Chemistry Communication</i> , 2006, 9, 127-131.	1.8	16

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37	(2,2-Dibromovinyl)ferrocene as a Building Block for the Assembly of Heterodinuclear Complexes – Preparation of an η^5 -Alkenylpalladium Complex and Dimetallic Dithioether Complexes. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5052-5061.	1.0	16
38	Re I (CO) 3 complexes with diimine ligands synthesized in situ. <i>Coordination Chemistry Reviews</i> , 2017, 339, 128-137.	9.5	16
39	Nanoparticles Addition in PU Foams: The Dramatic Effect of Trapped-Air on Nucleation. <i>Polymers</i> , 2021, 13, 2952.	2.0	16
40	Manganese cationic pyrazolylamidino complexes. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 3074-3080.	0.8	15
41	Reactivity of Silyl-Substituted Iron-Platinum Hydride Complexes toward Unsaturated Molecules: 4. Insertion of Fluorinated Aromatic Alkynes into the Platinum-Hydride Bond. Synthesis and Reactivity of Heterobimetallic Dimetallacyclopentenone, Dimetallacyclobutene, η^4 -Vinylidene, and η^2 - η^5 -Alkenyl Complexes. <i>Organometallics</i> , 2013, 32, 5343-5359.	1.1	15
42	The synthesis and structure of $(\eta^5\text{-}1,2,3\text{-pentadienyl})(\eta^5\text{-}1,3\text{-pentadienyl})\text{Fe}_2(\text{CO})_8$ complexes. An unusual bonding mode for the pentadienyl group. <i>Journal of the American Chemical Society</i> , 1992, 114, 4594-4601.	6.6	13
43	Molybdenum- and tungsten(ii) monometallic 3-(2-pyridyl)pyrazole and bimetallic 3-(2-pyridyl)pyrazolate complexes. <i>Dalton Transactions</i> , 2012, 41, 7017.	1.6	13
44	Homo- and heteropolymetallic 3-(2-pyridyl)pyrazolate manganese and rhenium complexes. <i>Dalton Transactions</i> , 2014, 43, 4009-4020.	1.6	13
45	Long-term thermal conductivity of cyclopentane-water blown rigid polyurethane foams reinforced with different types of fillers. <i>Polymer International</i> , 2019, 68, 1826-1835.	1.6	13
46	Transparent Polyisocyanurate-Polyurethane-Based Aerogels: Key Aspects on the Synthesis and Their Porous Structures. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4607-4615.	2.0	13
47	(1,2-Azole)bis(bipyridyl)ruthenium(II) Complexes: Electrochemistry, Luminescent Properties, And Electro- And Photocatalysts for CO_2 Reduction. <i>Inorganic Chemistry</i> , 2021, 60, 692-704.	1.9	13
48	The first pyrazole molybdenum(0) complexes: cis-[Mo(CO) ₄ (Hdmpz) ₂] crystallizes as a Ni-H \cdots OC hydrogen-bonded dimer. <i>Journal of Organometallic Chemistry</i> , 2003, 667, 120-125.	0.8	12
49	Dynamic behavior in solution of seven-coordinated transition metal complexes. <i>Coordination Chemistry Reviews</i> , 2014, 281, 86-99.	9.5	12
50	Preparation of some reactions of [Mo ₂ (η^5 -C ₅ H ₅) ₂ (CO) ₄ (η^5 -Ph ₂ PCH ₂ PPh ₂)], a useful precursor for new dimolybdenum (II) complexes. Crystal structure of [Mo ₂ (η^5 -C ₅ H ₅) ₂ (CO) ₄ (η^5 -H)(η^5 -Ph ₂ PCH ₂ PPh ₂) ₂]-[Mo ₆ O ₁₉]-4C ₄ H ₈ O. <i>Journal of Organometallic Chemistry</i> , 1988, 345, C4-C8.	0.8	10
51	Tetranuclear organometallic complexes containing Mo ₂ O ₄ ²⁺ and allylmolybdenum(ii) moieties. <i>Dalton Transactions</i> , 2010, 39, 10099.	1.6	10
52	Coordination versus Coupling of Dicyanamide in Molybdenum and Manganese Pyrazole Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 6070-6080.	1.9	10
53	Improvement of thermal and mechanical properties by control of formulations in rigid polyurethane foams from polyols functionalized with graphene oxide. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47474.	1.3	10
54	Optical Properties of Polyisocyanurate-Polyurethane Aerogels: Study of the Scattering Mechanisms. <i>Nanomaterials</i> , 2022, 12, 1522.	1.9	10

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55	Infrared expandometry: A novel methodology to monitor the expansion kinetics of cellular materials produced with exothermic foaming mechanisms. <i>Polymer Testing</i> , 2018, 66, 383-393.	2.3	9
56	Nuclear Magnetic Resonance Methodology for the Analysis of Regular and Non-Alcoholic Lager Beers. <i>Food Analytical Methods</i> , 2018, 11, 11-22.	1.3	9
57	[Pd(Fmes) ₂](tmeda): A Case of Intermittent C-H... π ... π ...F π C Hydrogen-Bond Interaction in Solution. <i>Chemistry - A European Journal</i> , 2013, 19, 3702-3709.	1.7	8
58	Amidino ligands obtained from the coupling of 1-methylcytosine and nitrile: a new method to incorporate biomolecules into luminescent Re(CO) ₃ complexes. <i>Dalton Transactions</i> , 2015, 44, 17478-17481.	1.6	8
59	Identification and Quantification of Cell Gas Evolution in Rigid Polyurethane Foams by Novel GCMS Methodology. <i>Polymers</i> , 2019, 11, 1192.	2.0	8
60	Whole microwave syntheses of pyridylpyrazole and of Re and Ru luminescent pyridylpyrazole complexes. <i>Inorganica Chimica Acta</i> , 2019, 484, 1-7.	1.2	8
61	Improving the Insulating Capacity of Polyurethane Foams through Polyurethane Aerogel Inclusion: From Insulation to Superinsulation. <i>Nanomaterials</i> , 2022, 12, 2232.	1.9	8
62	fac-Acetato-bis(pyrazole) complexes: A systematic study on intra- and intermolecular hydrogen bonds. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3190-3199.	0.8	7
63	Structural Consequences of an Extreme Difference between the <i>trans</i> Influence of the Donor Atoms in a Palladacycle. <i>Organometallics</i> , 2014, 33, 7329-7332.	1.1	7
64	Super-Insulating Transparent Polyisocyanurate-Polyurethane Aerogels: Analysis of Thermal Conductivity and Mechanical Properties. <i>Nanomaterials</i> , 2022, 12, 2409.	1.9	6
65	A Warning for Frost Diagrams Users. <i>Journal of Chemical Education</i> , 1994, 71, 480.	1.1	5
66	Syntheses, Dynamic Behaviour and Theoretical Studies of [(Piperidinomethyl)silyl]methyl π -Cyclopalladated Dimetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3427-3434.	1.0	5
67	Characterization and Properties of Water-Blown Rigid Polyurethane Foams Reinforced with Silane-Modified Nanosepiolites Functionalized with Graphite. <i>Materials</i> , 2022, 15, 381.	1.3	5
68	Mono- and di-nuclear 2,3-diazabutadiene and 2-azabutadiene complexes of Rhenium(I): Syntheses, luminescence spectra and X-ray structures. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1060-1063.	1.8	4
69	X-ray radioscopy validation of a polyol functionalized with graphene oxide for producing rigid polyurethane foams with improved cellular structures. <i>European Polymer Journal</i> , 2019, 118, 404-411.	2.6	4
70	Luminescent cis-Bis(bipyridyl)ruthenium(II) Complexes with 1,2-Azolyamidino Ligands: Photophysical, Electrochemical Studies, and Photocatalytic Oxidation of Thioethers. <i>Inorganic Chemistry</i> , 2021, 60, 7008-7022.	1.9	3
71	Cationic (fluoromesityl)palladium(II) complexes. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 3862-3873.	0.8	2
72	Where Is Ozone in the Frost Diagram?. <i>Journal of Chemical Education</i> , 2009, 86, 432.	1.1	2

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73	Syntheses, solid structures, and behavior in solution of $[M_2(CO)_3(\text{pyrazole})_2]$ complexes (M = Mo, W). <i>Inorganica Chimica Acta</i> , 2017, 456, 9-17.	1.2	2
74	Identification by ^{13}C -NMR of key compounds present in beer distillates and residual phases after dealcoholization by vacuum distillation. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 3971-3978.	1.7	2
75	Triple bridged anionic dimetallic complexes from <i>cis</i> - $[Mo(\eta^3\text{-methallyl})Cl(CO)_2(NCMe)_2]$ and pyrazolates. <i>Journal of Organometallic Chemistry</i> , 2012, 713, 68-71.	0.8	1
76	(Piperidinomethyl)silylmethyl cyclopalladated complexes with amino acidato ligands. <i>Journal of Organometallic Chemistry</i> , 2012, 719, 18-20.	0.8	1
77	Bridging Pseudohalides in Palladacycles as a Source of Different Assemblies. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3302-3307.	1.0	1