

Jerzy Klosin

List of Publications by Year in descending order

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55
papers

3,015
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159585

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docs citations

57
times ranked

2113
citing authors

#	ARTICLE	IF	CITATIONS
1	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020, 369, .	12.6	306
2	Ligands for Practical Rhodium-Catalyzed Asymmetric Hydroformylation. <i>Accounts of Chemical Research</i> , 2007, 40, 1251-1259.	15.6	261
3	Highly Active, Regioselective, and Enantioselective Hydroformylation with Rh Catalysts Ligated by Bis-3,4-diazaphospholanes. <i>Journal of the American Chemical Society</i> , 2005, 127, 5040-5042.	13.7	200
4	Highly Regio- and Enantioselective Asymmetric Hydroformylation of Olefins Mediated by 2,5-Disubstituted Phospholane Ligands. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5834-5838.	13.8	150
5	Ligand Exchange and Alkyl Abstraction Involving (Perfluoroaryl)boranes and -alanes with Aluminum and Gallium Alkyls. <i>Organometallics</i> , 2000, 19, 4684-4686.	2.3	143
6	Development of Group IV Molecular Catalysts for High Temperature Ethylene-1-octene Copolymerization Reactions. <i>Accounts of Chemical Research</i> , 2015, 48, 2004-2016.	15.6	134
7	Synthesis and Application of a New Bisphosphite Ligand Collection for Asymmetric Hydroformylation of Allyl Cyanide. <i>Journal of Organic Chemistry</i> , 2004, 69, 4031-4040.	3.2	125
8	New Family of Weakly Coordinating Anions. <i>Journal of the American Chemical Society</i> , 2000, 122, 9560-9561.	13.7	123
9	Heteroatom-Substituted Constrained-Geometry Complexes. Dramatic Substituent Effect on Catalyst Efficiency and Polymer Molecular Weight. <i>Organometallics</i> , 2001, 20, 2663-2665.	2.3	99
10	Parallel Ligand Screening on Olefin Mixtures in Asymmetric Hydroformylation Reactions. <i>Organic Letters</i> , 2004, 6, 3277-3280.	4.6	93
11	Evaluation of Asymmetric Hydrogenation Ligands in Asymmetric Hydroformylation Reactions. Highly Enantioselective Ligands Based on Bis-phosphacycles. <i>Organometallics</i> , 2006, 25, 5003-5009.	2.3	82
12	Asymmetric Hydroformylation of Vinyl Acetate: Application in the Synthesis of Optically Active Isoxazolines and Imidazoles. <i>Organic Letters</i> , 2007, 9, 2665-2668.	4.6	74
13	Pyridylamido Hafnium and Zirconium Complexes: Synthesis, Dynamic Behavior, and Ethylene/1-Octene and Propylene Polymerization Reactions. <i>Organometallics</i> , 2011, 30, 3318-3329.	2.3	73
14	Penultimate Effect in Ethylene-Styrene Copolymerization and the Discovery of Highly Active Ethylene-Styrene Catalysts with Increased Styrene Reactivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 7065-7076.	13.7	70
15	Synthesis of Hafnium and Zirconium Imino-Amido Complexes from Bis-imine Ligands. A New Family of Olefin Polymerization Catalysts. <i>Organometallics</i> , 2007, 26, 3896-3899.	2.3	69
16	Synthesis of Biologically Active Amines via Rhodium-Bisphosphite-Catalyzed Hydroaminomethylation. <i>Organic Letters</i> , 2005, 7, 4795-4798.	4.6	65
17	Effect of the Dihedral Angle of Biaryl-Bridged Bisphosphite Ligands on Enantioselectivity and Regioselectivity of Asymmetric Hydroformylation. <i>Organometallics</i> , 2007, 26, 2986-2999.	2.3	65
18	Bridging Group Effects in Chelating Bis(2,5-diphenylphospholane) Ligands for Rhodium-Catalyzed Asymmetric Hydroformylation. <i>Organometallics</i> , 2009, 28, 2993-2999.	2.3	55

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19	NMR Study of Isolated 2,1-Inverse Insertion in Isotactic Polypropylene. <i>Macromolecules</i> , 2009, 42, 2291-2294.	4.8	53
20	Synthesis of Imino-Enamido Hafnium and Zirconium Complexes: A New Family of Olefin Polymerization Catalysts with Ultrahigh-Molecular-Weight Capabilities. <i>Organometallics</i> , 2011, 30, 1695-1709.	2.3	51
21	Bis-(2,5-diphenylphospholanes) with sp^2 Carbon Linkers: Synthesis and Application in Asymmetric Hydrogenation. <i>Journal of Organic Chemistry</i> , 2008, 73, 775-784.	3.2	46
22	<i>Organometallics</i> Roundtable 2011. <i>Organometallics</i> , 2012, 31, 1-18.	2.3	46
23	^{13}C NMR of polyolefins with a new high temperature 10mm cryoprobe. <i>Journal of Magnetic Resonance</i> , 2009, 200, 328-333.	2.1	43
24	Imino-Amido Hf and Zr Complexes: Synthesis, Isomerization, and Olefin Polymerization. <i>Organometallics</i> , 2011, 30, 251-262.	2.3	42
25	Synthesis and Characterization of Cyclohexadienyl-Based Constrained Geometry Complexes. <i>Organometallics</i> , 1999, 18, 1159-1167.	2.3	39
26	Preparation and Properties of a Ruthenium Complex of a 1-Silaallene. <i>Journal of the American Chemical Society</i> , 1995, 117, 3298-3299.	13.7	37
27	Unexpected Precatalyst η^5 -Ligand Effects in Phenoxyimine Zr-Catalyzed Ethylene/1-Octene Copolymerizations. <i>Journal of the American Chemical Society</i> , 2019, 141, 7822-7830.	13.7	37
28	Evaluation of Bis(phosphine) Ligands for Ethylene Oligomerization: Discovery of Alkyl Phosphines as Effective Ligands for Ethylene Tri- and Tetramerization. <i>Organometallics</i> , 2020, 39, 967-975.	2.3	32
29	Terminal and Internal Unsaturation in Poly(ethylene-co-1-octene). <i>Macromolecules</i> , 2014, 47, 3782-3790.	4.8	31
30	Phospholane-Based Ligands for Chromium-Catalyzed Ethylene Tri- and Tetramerization. <i>Organometallics</i> , 2020, 39, 976-987.	2.3	31
31	Hafnium Amidoquinoline Complexes: Highly Active Olefin Polymerization Catalysts with Ultrahigh Molecular Weight Capacity. <i>Organometallics</i> , 2012, 31, 6244-6251.	2.3	30
32	Synthesis and Scale-up of Imino-Enamido Hafnium and Zirconium Olefin Polymerization Catalysts. <i>Organometallics</i> , 2013, 32, 2963-2972.	2.3	28
33	Preparation of New Olefin Polymerization Precatalysts by Facile Derivatization of Imino-Enamido $ZrMe_3$ and $HfMe_3$ Complexes. <i>Organometallics</i> , 2013, 32, 6488-6499.	2.3	22
34	Development of Improved Amidoquinoline Polyolefin Catalysts with Ultrahigh Molecular Weight Capacity. <i>Organometallics</i> , 2015, 34, 1354-1363.	2.3	22
35	Highly Efficient Carborane-Based Activators for Molecular Olefin Polymerization Catalysts. <i>ACS Catalysis</i> , 2021, 11, 3335-3342.	11.2	22
36	Synthesis and Reactivity of Platinum Complexes of Cyclic Alkynes and Tropynes. <i>Organometallics</i> , 1995, 14, 2892-2902.	2.3	19

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37	Long Chain Branching Detection and Quantification in LDPE with Special Solvents, Polarization Transfer Techniques, and Inverse Gated ¹³ C NMR Spectroscopy. <i>Macromolecules</i> , 2018, 51, 8443-8454.	4.8	19
38	Design and synthesis of florylpicoxamid, a fungicide derived from renewable raw materials. <i>Green Chemistry</i> , 2020, 22, 6047-6054.	9.0	16
39	Platinum~Molybdenum Complexes of Cyclic Tropyne, Cumulenes, and Alkynes. <i>Organometallics</i> , 1996, 15, 596-603.	2.3	15
40	Aminotroponiminato Hafnium and Zirconium Complexes: Synthesis and Ethylene/1-Octene Copolymerization Study. <i>Organometallics</i> , 2011, 30, 4589-4597.	2.3	15
41	Investigations into Asymmetric Post-Metallocene Group 4 Complexes for the Synthesis of Highly Regioirregular Polypropylene. <i>Macromolecules</i> , 2014, 47, 3317-3324.	4.8	14
42	Synthetic Optimization and Scale-Up of Imino~Amido Hafnium and Zirconium Olefin Polymerization Catalysts. <i>Organic Process Research and Development</i> , 2015, 19, 1383-1391.	2.7	13
43	Bis(triphenylphosphine)palladium Cycloheptadienynilium Tetrafluoroborate:~ A Palladium Complex of Tropyne. <i>Organometallics</i> , 1996, 15, 2465-2468.	2.3	12
44	Preparation and Fluxionality of a Bimetallic Platinum~Molybdenum Complex of 1,2,4,6-Cycloheptatetraene. <i>Organometallics</i> , 1996, 15, 3788-3790.	2.3	12
45	Mechanistic and Synthetic Implications of the Diol-Ritter Reaction: Unexpected Yet Reversible Pathways in the Regioselective Synthesis of Vicinal-Aminoalcohols. <i>Journal of Organic Chemistry</i> , 2019, 84, 4715-4722.	3.2	6
46	Synthesis and molecular structure of two zirconocene complexes of cyclooctatrienyne. <i>Tetrahedron Letters</i> , 1995, 36, 3107-3110.	1.4	5
47	Synthesis and X-ray structure of novel 2- and 3-heteroatom-substituted ansa-zirconocene complexes. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 2581-2596.	1.8	5
48	Alkane-Soluble Bis[tris(alkylphenyl)carbenium] Diborate Cocatalyst for Olefin Polymerizations. <i>ACS Catalysis</i> , 2022, 12, 7589-7597.	11.2	5
49	X-ray and computational studies of some 5-(perfluoroalkenyl) uracils. <i>Journal of Fluorine Chemistry</i> , 2000, 102, 111-117.	1.7	4
50	Monomeric Germanium(II) Amides Bearing \hat{I}^2 -Diketiminato Ligands: Synthesis, Structural Characterization, and Thermal Properties. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5233-5239.	2.0	4
51	Synthesis of 6-Aryl-5-fluoropicolinate Herbicides via Halex Reaction of Tetrachloropicolinonitrile. <i>Organic Process Research and Development</i> , 2019, 23, 2166-2174.	2.7	4
52	Highly Active Monoligated Arylpalladacycles for Cross-Coupling Reactions. <i>Organic Process Research and Development</i> , 2019, 23, 2181-2190.	2.7	2
53	Diol-Ritter Reaction: Regio- and Stereoselective Synthesis of Protected Vicinal Aminoalcohols and Mechanistic Aspects of Diol Monoester Disproportionation. <i>Journal of Organic Chemistry</i> , 2021, , .	3.2	2
54	XL-Xantphos: Design and Synthesis of a Mechanistic Probe of Xantphos $\langle i \rangle O \langle /i \rangle$ -Coordination in Catalytic Reactions. <i>Organometallics</i> , 2019, 38, 2233-2238.	2.3	1

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55	Highly Regio- and Enantioselective Asymmetric Hydroformylation of Olefins Mediated by 2,5-Disubstituted Phospholane Ligands.. ChemInform, 2005, 36, no.	0.0	0