Wenjuan Zhang

List of Publications by Year
in descending order

103 papers	3,748 citations	94269 37 h-index	143772 57 g-index
104 all docs	104 docs citations	104 times ranked	1699 citing authors

#	Article	IF	Citations
1	Carbocyclic-fused N,N,N-pincer ligands as ring-strain adjustable supports for iron and cobalt catalysts in ethylene oligo-/polymerization. Coordination Chemistry Reviews, 2018, 363, 92-108.	9.5	172
2	Tailoring iron complexes for ethylene oligomerization and/or polymerization. Dalton Transactions, 2013, 42, 8988-8997.	1.6	159
3	Access to highly active and thermally stable iron procatalysts using bulky 2-[1-(2,6-dibenzhydryl-4-methylphenylimino)ethyl]-6-[1-(arylimino)ethyl]pyridine ligands. Chemical Communications, 2011, 47, 3257.	2.2	143
4	Synthesis, Characterization, and Ethylene Oligomerization and Polymerization of Ferrous and Cobaltous 2-(Ethylcarboxylato)-6-iminopyridyl Complexes. Organometallics, 2004, 23, 5037-5047.	1.1	140
5	Synthesis, Characterization, and Ethylene Oligomerization and Polymerization of [2,6-Bis(2-benzimidazolyl)pyridyl]chromium Chlorides. Organometallics, 2006, 25, 1961-1969.	1.1	127
6	Conjugated Ligands Modulated Sandwich Structures and Luminescence Properties of Lanthanide Metalâ€“Organic Frameworks. Inorganic Chemistry, 2011, 50, 5242-5248.	1.9	114
7	2-(1-(Arylimino)ethyl)-8-arylimino-5,6,7-trihydroquinoline Iron(II) Chloride Complexes: Synthesis, Characterization, and Ethylene Polymerization Behavior. Organometallics, 2012, 31, 5039-5048.	1.1	96
8	Enhancing the Activity and Thermal Stability of Iron Precatalysts Using 2â€{1â€{2,6â€bis[bis(4â€fluorophenyl)methyl]â€4â€methylphenylimino}ethyl)â€6â€[1â€(arylimino)ethyl]pyridines. Macromolecular Chemistry and Physics, 2012, 213, 1266-1273.	1.1	82
9	(Imido)vanadium(v)-alkyl, -alkylidene complexes exhibiting unique reactivity towards olefins and alcohols. Chemical Science, 2010, 1, 161.	3.7	77
10	Recent progress in the application of group 1, 2 & 13 metal complexes as catalysts for the ring opening polymerization of cyclic esters. Inorganic Chemistry Frontiers, 2019, 6, 2619-2652.	3.0	76
11	Controlling the molecular weights of polyethylene waxes using the highly active precatalysts of 2-(1-aryliminoethyl)-9-arylimino-5,6,7,8-tetrahydrocycloheptapyridylcobalt chlorides: synthesis, characterization, and catalytic behavior. Dalton Transactions, 2016, 45, 657-666.	1.6	74
12	Facile Synthesis of (Imido)vanadium(V)â^'Alkyl, Alkylidene Complexes Containing an N-Heterocyclic Carbene Ligand from Their Trialkyl Analogues. Organometallics, 2008, 27, 6400-6402.	1.1	73
13	Dimethylaluminium aldiminophenolates: synthesis, characterization and ring-opening polymerization behavior towards lactides. Dalton Transactions, 2012, 41, 11587.	1.6	71
14	Synthesis and characterization of organoaluminum compounds containing quinolin-8-amine derivatives and their catalytic behaviour for ring-opening polymerization of Îµ-caprolactone. Dalton Transactions, 2009, , 9000.	1.6	69
15	A practical ethylene polymerization for vinyl-polyethylenes: synthesis, characterization and catalytic behavior of Î±,Ì±â€²-bisimino-2,3:5,6-bis(pentamethylene)pyridyliron chlorides. Polymer Chemistry, 2016, 7, 4188-4197.	1.9	65
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#	Article	IF	Citations
19	Concurrently Improving the Thermal Stability and Activity of Ferrous Precatalysts for the Production of Saturated/Unsaturated Polyethylene. Organometallics, 2018, 37, 957-970.	1.1	61
20	Synthesis of (1-Adamantylimido)vanadium(V) Complexes Containing Aryloxo, Ketimide Ligands: Effect of Ligand Substituents in Olefin Insertion/Metathesis Polymerization. Inorganic Chemistry, 2008, 47, 6482-6492.	1.9	59
21	Thermally stable and highly active cobalt precatalysts for vinyl-polyethylenes with narrow polydispersities: integrating fused-ring and imino-carbon protection into ligand design. New Journal of Chemistry, 2016, 40, 8012-8023.	1.4	58
22	Vinyl Polymerization of Norbornene on Nickel Complexes with Bis(imino)pyridine Ligands Containing Electron-Withdrawing Groups. Organometallics, 2012, 31, 1143-1149.	1.1	57
23	Synthesis and characterisation of alkylaluminium benzimidazolates and their use in the ring-opening polymerisation of Îµ-caprolactone. Dalton Transactions, 2010, 39, 9912.	1.6	56
24	Synthesis of palladium complexes containing 2-methoxycarbonyl-6-iminopyridine ligand and their catalytic behaviors in reaction of ethylene and norbornene. Journal of Organometallic Chemistry, 2006, 691, 4759-4767.	0.8	55
25	Iron-oriented ethylene oligomerization and polymerization: The Iron Age or a flash in the pan. Comptes Rendus Chimie, 2011, 14, 851-855.	0.2	54
26	Î±,Î±â€²â€²-Bis(arylimino)â€2,3:5,6â€bis(pentamethylene)pyridylcobalt Chlorides: Synthesis, Characterization, and Ethylene Polymerization Behavior. European Journal of Inorganic Chemistry, 2016, 2016, 1748-1755.	1.0	54
27	Nitro-functionalized bis(imino)pyridylferrous chlorides as thermo-stable precatalysts for linear polyethylenes with high molecular weights. Polymer, 2018, 159, 124-137.	1.8	50
28	Reactions of an (Arylimido)vanadium(V)â^'Alkylidene, V(CHSiMe₃)(N-2,6-Me₂C₆H₃)(Nâ•C^tBu₁2</sub>)(PMe<su with Nitriles, Diphenylacetylene, and Styrene. Organometallics, 2008, 27, 5353-5360.	1.1	49
29	{2â€[1â€(2,6â€Diisopropylphenylimino)ethyl]pyridyl}palladium Dibromide Polymorphs Originating from Different BrÂ·Â·Â·Br€ and Câ€"HÂ·Â·Â·Br Contacts. European Journal of Inorganic Chemistry, 2008, 2008, 2830-2836.	1.0	47
30	8-(2-Cycloalkylphenylimino)-5,6,7-trihydro-quinolylnickel halides: polymerizing ethylene to highly branched and lower molecular weight polyethylenes. Inorganic Chemistry Frontiers, 2015, 2, 223-227.	3.0	47
31	Syntheses, Characterization, and Ethylene (Co-)Polymerization Screening of Amidate Half-Titanocene Dichlorides. Organometallics, 2010, 29, 2459-2464.	1.1	45
32	2-{2,6-Bis[bis(4-fluorophenyl)methyl]-4-chlorophenylimino}-3-aryliminobutylnickel(II) bromide complexes: Synthesis, characterization, and investigation of their catalytic behavior. Applied Catalysis A: General, 2014, 475, 195-202.	2.2	45
33	Targeting polyethylene waxes: 9-(2-cycloalkylphenylimino)-5,6,7,8-tetrahydrocycloheptapyridylnickel halides and their use as catalysts for ethylene polymerization. RSC Advances, 2015, 5, 77913-77921.	1.7	45
34	Syntheses, Characterization, and the Ethylene (Co-)Polymerization Screening of 2-Benzimidazolyl-N-phenylquinoline-8-carboxamide Half-Titanocene Chlorides. Organometallics, 2010, 29, 732-741.	1.1	43
35	Synthesis and Characterization of Dialkylaluminum Amidates and Their Ring-Opening Polymerization of Îµ-Caprolactone. Organometallics, 2011, 30, 6253-6261.	1.1	41
36	2-Ethyl-ketimino-1,10-phenanthroline iron(II) complexes as highly active catalysts for ethylene oligomerizationâ˜†. Journal of Molecular Catalysis A, 2010, 320, 92-96.	4.8	38

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37	Chloroyttrium 2-(1-(Arylimino)alkyl)quinolin-8-olate Complexes: Synthesis, Characterization, and Catalysis of the Ring-Opening Polymerization of Îµ-Caprolactone. Organometallics, 2012, 31, 8178-8188.	1.1	37
38	Synthesis and Structural Analysis of (Imido)Vanadium(V) Complexes Containing Chelate (Anilido)Methyl-imine Ligands: Ligand Effect in Ethylene Dimerization. Inorganic Chemistry, 2013, 52, 2607-2614.	1.9	37
39	Enhancing thermostability of iron ethylene polymerization catalysts through N,N,N-chelation of doubly fused Î±,Î±â€²-bis(arylimino)-2,3:5,6-bis(hexamethylene)pyridines. Catalysis Science and Technology, 2019, 9, 1933-1943.	2.1	37
40	Highly linear polyethylenes tailored with 2,6-bis[1-(p-dibenzo-cycloheptylarylimino)ethyl]pyridylcobalt dichlorides. Dalton Transactions, 2019, 48, 5604-5613.	1.6	35
41	Moderately branched ultraâ€high molecular weight polyethylene by using N,Nâ€²â€nickel catalysts adorned with sterically hindered dibenzocycloheptyl groups. Applied Organometallic Chemistry, 2019, 33, e4749.	1.7	34
42	Chromium complexes ligated by 2-carbethoxy-6-iminopyridines: Synthesis, characterization and their catalytic behavior toward ethylene polymerization. Journal of Molecular Catalysis A, 2007, 265, 159-166.	4.8	33
43	Probing the effect ofortho-cycloalkyl ring size on activity and thermostability in cycloheptyl-fusedN,N,N-iron ethylene polymerization catalysts. Dalton Transactions, 2020, 49, 136-146.	1.6	31
44	Highly Linear Polyethylenes Achieved Using Thermo-Stable and Efficient Cobalt Precatalysts Bearing Carbocyclic-Fused NNN-Pincer Ligand. Molecules, 2019, 24, 1176.	1.7	30
45	Highly linear polyethylenes using the 2-(1-(2,4-dibenzhydrylnaphthylimino)ethyl)-6-(1-(arylimino)ethyl)-pyridylcobalt chlorides: synthesis, characterization and ethylene polymerization. Science China Chemistry, 2016, 59, 1291-1300.	4.2	29
46	Synthesis of (Imido)vanadium(V) Complexes Containing 8-(2,6-Dimethylanilide)-5,6,7-trihydroquinoline Ligands: Highly Active Catalyst Precursors for Ethylene Dimerization. Organometallics, 2014, 33, 1053-1060.	1.1	28
47	Dialkylaluminium 2-imidazolylphenolates: Synthesis, characterization and ring-opening polymerization behavior towards lactides. Journal of Organometallic Chemistry, 2014, 750, 65-73.	0.8	28
48	Sodium iminoquinolates with cubic and hexagonal prismatic motifs: synthesis, characterization and their catalytic behavior toward the ROP of rac-lactide. Inorganic Chemistry Frontiers, 2016, 3, 1178-1189.	3.0	26
49	Synthesis, characterization, and ethylene (Co)polymerization behavior of trichlorotitanium 2â€(1â€(arylimino)propyl)quinolinâ€8â€olates. Journal of Polymer Science Part A, 2011, 49, 1887-1894.	2.5	24
50	CH(phenol)-Bridged Bis(imino)pyridines as Compartmental Supports for Diiron Precatalysts for Ethylene Polymerization: Exploring Cooperative Effects on Performance. Organometallics, 2018, 37, 4002-4014.	1.1	24
51	gem-Dimethyl-substituted bis(imino)dihydroquinolines as thermally stable supports for highly active cobalt catalysts that produce linear PE waxes. Dalton Transactions, 2019, 48, 8175-8185.	1.6	23
52	Synthesis of (1-Adamantylimido)vanadium(V)-alkyl Complexes Containing a Chelate Alkoxo(imino)pyridine Ligand, and Reactions with Alcohols (ROH) That Proceed via Intermediates Formed by Coordination of ROH. Organometallics, 2009, 28, 1558-1568.	1.1	22
53	2-(N-Alkylcarboxamide)-6-iminopyridyl palladium and nickel complexes: coordination chemistry and catalysis. Dalton Transactions, 2011, 40, 12856.	1.6	22
54	Synthesis and Reaction Chemistry of Alkylidene Complexes With Titanium, Zirconium, Vanadium, and Niobium: Effective Catalysts for Olefin Metathesis Polymerization and Other Organic Transformations. Advances in Organometallic Chemistry, 2017, 68, 93-136.	0.5	22

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55	Activity and Thermal Stability of Cobalt(II)-Based Olefin Polymerization Catalysts Adorned with Sterically Hindered Dibenzocycloheptyl Groups. Molecules, 2019, 24, 2007.	1.7	22
56	Vinyl/Vinylene functionalized highly branched polyethylene waxes obtained using electronically controlled cyclohexylâ€fused pyridinylimineâ€nickel precatalysts. Journal of Polymer Science Part A, 2018, 56, 1269-1281.	2.5	21
57	Trimetallic yttrium N-(2-methylquinolin-8-yl)benzamides: synthesis, structure and use in ring-opening polymerization (ROP) of Îµ-caprolactone. New Journal of Chemistry, 2012, 36, 2392.	1.4	20
58	Î±-Helical Domains Affecting the Oligomerization of Vipp1 and Its Interaction with Hsp70/DnaK in Chlamydomonas. Biochemistry, 2015, 54, 4877-4889.	1.2	20
59	Methylene-bridged bimetallic bis(imino)pyridine-cobaltous chlorides as precatalysts for vinyl-terminated polyethylene waxes. Dalton Transactions, 2018, 47, 6124-6133.	1.6	20
60	Synthesis and characterization of trichlorotitanium 2-(2-pyridinyliminomethyl)phenolates and their ethylene (co-)polymerization behavior. Polymer, 2011, 52, 3732-3737.	1.8	19
61	Bisimino-functionalized dibenzo[a,c]acridines as highly conjugated pincer frameworks for palladium(<scp>ii</scp>): synthesis, characterization and catalytic performance in Heck coupling. Organic Chemistry Frontiers, 2016, 3, 1668-1679.	2.3	19
62	Tailoring polyethylenes through constraining geometry of nickel complex: Synthesis, characterization and ethylene polymerization of 8-(2-benzhydrylnaphthylimino)-5,6,7-trihydroquinolylnickel halides. Inorganica Chimica Acta, 2016, 442, 178-186.	1.2	19
63	1,5-Naphthyl-linked bis(imino)pyridines as binucleating scaffolds for dicobalt ethylene oligo-/polymerization catalysts: exploring temperature and steric effects. Dalton Transactions, 2019, 48, 8264-8278.	1.6	19
64	Synthesis of Aluminum Complexes Bearing 8-Anilide-5,6,7-trihydroquinoline Ligands: Highly Active Catalyst Precursors for Ring-Opening Polymerization of Cyclic Esters. Polymers, 2017, 9, 83.	2.0	18
65	Sterically and Electronically Modified Aryliminopyridyl-Nickel Bromide Precatalysts for an Access to Branched Polyethylene with Vinyl/Vinylene End Groups. ACS Omega, 2020, 5, 10610-10625.	1.6	18
66	Vinyl polymerization of norbornene over supported nickel catalyst. Journal of Applied Polymer Science, 2006, 102, 2233-2240.	1.3	17
67	Vanadyl Di(5â€tâ€butylâ€2â€(aryliminomethyl)quinolinâ€8â€olate): Synthesis, Characterization, and Ethylene (Coâ€)Polymerization. Macromolecular Chemistry and Physics, 2014, 215, 1744-1752.	1.1	17
68	Polyacrylamide/Copperâ€Alginate Double Network Hydrogel Electrolyte with Excellent Mechanical Properties and Strainâ€Sensitivity. Macromolecular Bioscience, 2022, 22, e2100361.	2.1	17
69	Ethylene Polymerization Catalyzed by Pyreneâ€Tagged Iron Complexes: The Positive Effect of Ïâ€Conjugation and Immobilization on Multiwalled Carbon Nanotubes. ChemCatChem, 2014, 6, 1310-1316.	1.8	16
70	Propyl substituted 4-arylimino-1,2,3-trihydroacridylnickel complexes: Their synthesis, characterization and catalytic behavior toward ethylene. Journal of Organometallic Chemistry, 2015, 798, 408-413.	0.8	16
71	Dialkylaluminum 2-substituted 6,6-dimethylcyclopentylpyridin-7-oxylates toward structural-differentiation of the ring-opening polymerization of Îµ-caprolactone and <scp>l</scp>-lactides. Dalton Transactions, 2019, 48, 4157-4167.	1.6	16
72	Thermo-enhanced ring-opening polymerization of Îµ-caprolactone: the synthesis, characterization, and catalytic behavior of aluminum hydroquinolin-8-olates. Dalton Transactions, 2017, 46, 7833-7843.	1.6	15

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73	Remote dibenzocycloheptyl-substitution of an iminotrihydroquinoline-nickel catalyst as a route to narrowly dispersed branched polyethylene waxes with alkene functionality. European Polymer Journal, 2018, 107, 315-328.	2.6	15
74	Synthesis, characterization and ethylene (co-)polymerization behavior of half-titanocene 2-(1-(arylimino)ethyl)quinolin-8-olate chlorides. Catalysis Science and Technology, 2011, 1, 1208.	2.1	14
75	2-Aldiminophenoxytitanium chloride complexes: Synthesis, characterization, andÂethylene (co-)polymerization behavior. Journal of Organometallic Chemistry, 2012, 715, 119-128.	0.8	14
76	Highly cisâ€1,4â€selective polymerization of isoprene achieved using neodymium chloride 8â€hydroxyquinolines. Polymer International, 2015, 64, 1030-1036.	1.6	14
77	Nickel(II) Complexes Bearing 4-Arylimino-1,2,3-trihydroacridines: Synthesis, Characterization, and Ethylene Oligomerization. ChemistryOpen, 2015, 4, 328-334.	0.9	14
78	Highly efficient iron(II) catalysts toward ring opening polymerization of Îµ-caprolactone through in situ initiation. Inorganica Chimica Acta, 2019, 488, 299-303.	1.2	14
79	Remote dibenzocycloheptyl substitution on a bis(arylimino)pyridyl-iron ethylene polymerization catalyst; enhanced thermal stability and unexpected effects on polymer properties. Polymer Chemistry, 2021, 12, 4214-4225.	1.9	14
80	Asymmetric functional interaction between chaperonin and its plastidic cofactors. FEBS Journal, 2015, 282, 3959-3970.	2.2	13
81	Engineering of the cytosolic form of phosphoglucose isomerase into chloroplasts improves plant photosynthesis and biomass. New Phytologist, 2021, 231, 315-325.	3.5	12
82	Updated CO2 emission from Mg production by Pidgeon process: Implications for automotive application life cycle. Resources, Conservation and Recycling, 2015, 100, 41-48.	5.3	11
83	Bimetallic Aluminum 5,6-Dihydro-7,7-dimethyl quinolin-8-olates as Pro-Initiators for the ROP of Îµ-CL; Probing the Nuclearity of the Active Initiator. Polymers, 2018, 10, 764.	2.0	11
84	Quinolylâ€Amidinates Chelating Bimetallic Magnesium and Mononuclear Aluminum Complexes for Îµâ€Caprolactone Polymerization. ChemistrySelect, 2016, 1, 5660-5665.	0.7	9
85	Potassium N-arylbenzimidates as readily accessible and benign (pre)catalysts for the ring opening polymerization of Îµ-CL and L-LA. Molecular Catalysis, 2020, 498, 111280.	1.0	9
86	Bimetallic aluminum complexes bearing novel spiro-phenanthrene-monoketone/OH derivatives: synthesis, characterization and the ring-opening polymerization of Îµ-caprolactone. RSC Advances, 2021, 11, 13274-13281.	1.7	9
87	Magnesium and aluminum complexes bearing bis(5,6,7-trihydro quinolyl)-fused benzodiazepines for Îµ-caprolactone polymerization. Inorganic Chemistry Frontiers, 2016, 3, 1317-1325.	3.0	8
88	Rational Design of Cycloheptylâ€Fused Bis(arylimino)pyridylâ€cobalt(II) Precatalysts Adorned with Sterically and Electronically Modified Nâ€Aryls for Enhancing Ethylene Polymerization. European Journal of Inorganic Chemistry, 2021, 2021, 720-733.	1.0	8
89	Methyleneâ€bridged bis(8â€arylimino)â€5,6,7â€trihydroâ€quinolylinickel precatalysts for ethylene polymerization. Journal of Polymer Science, 2020, 58, 1675-1686.	2.0	8
90	Half-Titanocene chlorides 2-(benzimidazol-2-yl)quinolin-8-olates: Synthesis, characterization and ethylene (co-)polymerization behavior. Chinese Journal of Polymer Science (English Edition), 2013, 31, 601-609.	2.0	7

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91	Polyethylene Waxes with Short Chain Branching via Steric and Electronic Tuning of an 8-(Arylimino)-5,6,7-trihydroquinoline-nickel Catalyst. Organometallics, 2022, 41, 3197-3211.	1.1	7
92	Synthesis, characterization, and the ethylene (co-)polymerization behaviour of half-titanocene dichloride 2-aryliminoquinolin-8-olates. Catalysis Science and Technology, 2012, 2, 2090.	2.1	6
93	Olefin Polymerization with Non-metallocene Catalysts (Early Transition Metals). Lecture Notes in Quantum Chemistry II, 2014, , 89-117.	0.3	6
94	Zinc 2-((2-(benzoimidazol-2-yl)quinolin-8-ylimino)methyl)phenolates: Synthesis, characterization and photoluminescence behavior. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 1047-1055.	2.0	6
95	Lithium Quinolylâ€Amidinates Efficiently Promoting Ringâ€Opening Polymerization of Îµâ€Caprolactone: Synthesis and ⁷Li NMR Spectroscopic Studies. European Journal of Inorganic Chemistry, 2017, 2017, 2653-2660.	1.0	6
96	Revisiting the 2-imino-1,10-phenanthrolylmetal precatalyst in ethylene oligomerization: Benzhydryl-modified cobalt(II) complexes and their dimerization of ethylene. Polyhedron, 2021, 193, 114865.	1.0	6
97	Ethylene Polymerization Using (Imino)vanadium(V) Dichloride Complexes Containing (Anilido)methyl-pyridine, -quinoline Ligandsâ€“Halogenated Al Alkyls Catalyst Systems. Catalysts, 2013, 3, 148-156.	1.6	5
98	The cryo-EM structure of the chloroplast ClpP complex. Nature Plants, 2021, 7, 1505-1515.	4.7	5
99	Phenoxy-imine/-amide aluminum complexes with pendant or coordinated pyridine moieties: Solvent effects on structural type and catalytic capability for the ROP of cyclic esters. Polymer, 2022, 242, 124602.	1.8	5
100	Ethylene polymerization with homogeneous and heterogeneous catalysts based on bis(4â€fluorophenyl)methylâ€substituted bis(imino)pyridyliron complexes. Journal of Applied Polymer Science, 2015, 132, .	1.3	4
101	The benzhydryl-modified 2-imino-1,10-phenanthrolyliron precatalyst in ethylene oligomerization. Journal of Organometallic Chemistry, 2021, 936, 121713.	0.8	4
102	Dinuclear chloroneodymium quinolinylcarboxylates: The molecular structures affected by water and the catalytic behavior toward isoprene polymerization. Inorganica Chimica Acta, 2016, 453, 589-595.	1.2	3
103	Synthesis, Characterization and Ethylene Reactivity of 2-Ester-6-iminopyridyl Metal Complexes. Studies in Surface Science and Catalysis, 2006, 161, 141-146.	1.5	2