Zheng Wang

List of Publications by Year
in descending order

31 papers	1,699 citations	430874 18 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	1481 citing authors

#	Article	IF	Citations
1	Catalytic Hydrogenation of Cyclic Carbonates: A Practical Approach from CO₂ and Epoxides to Methanol and Diols. Angewandte Chemie - International Edition, 2012, 51, 13041-13045.	13.8	317
2	Highly Efficient Rutheniumâ€Catalyzed Nâ€Formylation of Amines with H₂ and CO₂. Angewandte Chemie - International Edition, 2015, 54, 6186-6189.	13.8	284
3	Recent advances in Ni-mediated ethylene chain growth: Nimine-donor ligand effects on catalytic activity, thermal stability and oligo-/polymer structure. Coordination Chemistry Reviews, 2017, 350, 68-83.	18.8	229
4	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.	18.8	172
5	A Ruthenium Catalyst with Unprecedented Effectiveness for the Coupling Cyclization of Î³-Amino Alcohols and Secondary Alcohols. ACS Catalysis, 2016, 6, 1247-1253.	11.2	111
6	Bis(imino)pyridines Incorporating Doubly Fused Eight-Membered Rings as Conformationally Flexible Supports for Cobalt Ethylene Polymerization Catalysts. Organometallics, 2018, 37, 380-389.	2.3	72
7	Strictly linear polyethylene using Co-catalysts chelated by fused bis(arylimino)pyridines: Probing ortho-cycloalkyl ring-size effects on molecular weight. Polymer, 2018, 149, 45-54.	3.8	47
8	Efficient acceptorless dehydrogenation of secondary alcohols to ketones mediated by a PNN-Ru(<scp>ii</scp>) catalyst. Catalysis Science and Technology, 2017, 7, 1654-1661.	4.1	42
9	Bis(imino)pyridines fused with 6- and 7-membered carbocylic rings as N,N,N-scaffolds for cobalt ethylene polymerization catalysts. Dalton Transactions, 2019, 48, 2582-2591.	3.3	42
10	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.	4.1	37
11	Finely Tuned Î±,Î±â€²-Bis(arylimino)-2,3:5,6-bis(pentamethylene)pyridine-Based Practical Iron Precatalysts for Targeting Highly Linear and Narrow Dispersive Polyethylene Waxes with Vinyl Ends. Organometallics, 2019, 38, 4455-4470.	2.3	33
12	Narrow dispersed linear polyethylene using cobalt catalysts bearing cycloheptyl-fused bis(imino)pyridines; probing the effects of ortho-benzhydryl substitution. European Polymer Journal, 2019, 110, 240-251.	5.4	32
13	Cooperative interplay between a flexible PNN-Ru(<scp>ii</scp>) complex and a NaBH₄ additive in the efficient catalytic hydrogenation of esters. Catalysis Science and Technology, 2017, 7, 1297-1304.	4.1	30
14	Plastomeric-like polyethylenes achievable using thermally robust N,Nâ€²-nickel catalysts appended with electron withdrawing difluorobenzhydryl and nitro groups. Dalton Transactions, 2019, 48, 1878-1891.	3.3	30
15	Highly Linear Polyethylenes Achieved Using Thermo-Stable and Efficient Cobalt Precatalysts Bearing Carbocyclic-Fused NNN-Pincer Ligand. Molecules, 2019, 24, 1176.	3.8	30
16	Access to polyethylene elastomers via ethylene homo-polymerization using N,Nâ€²-nickel(II) catalysts appended with electron withdrawing difluorobenzhydryl group. European Polymer Journal, 2019, 117, 254-271.	5.4	27
17	Direct Hydrogenation of a Broad Range of Amides under Baseâ€free Conditions using an Efficient and Selective Ruthenium(II) Pincer Catalyst. ChemCatChem, 2017, 9, 4275-4281.	3.7	23
18	Cycloheptylâ€fused NNOâ€ligands as electronically modifiable supports for M(II) (Mâ€‰=â€‰Co, Fe) chloride precatalysts; probing performance in ethylene oligoâ€/polymerization. Journal of Polymer Science Part A, 2017, 55, 3980-3989.	2.3	23

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19	Achieving branched polyethylene waxes by aryliminocycloocta[b]pyridylnickel precatalysts: Synthesis, characterization, and ethylene polymerization. Journal of Polymer Science Part A, 2017, 55, 2601-2610.	2.3	19
20	Achieving strictly linear polyethylenes by the NNNâ€Fe precatalysts finely tuned with different sizes of orthoâ€cycloalkyl substituents. Applied Organometallic Chemistry, 2020, 34, e5937.	3.5	15
21	Ruthenium-catalyzed hydrogenation of CO₂ as a route to methyl esters for use as biofuels or fine chemicals. Chemical Science, 2020, 11, 6766-6774.	7.4	13
22	Fusing Carbocycles of Inequivalent Ring Size to a Bis(imino)pyridine-Iron Ethylene Polymerization Catalyst: Distinctive Effects on Activity, PE Molecular Weight, and Dispersity. Research, 2019, 2019, 9426063.	5.7	11
23	Progress in Homogeneous Catalytic Hydrogenation of CO2. Chinese Journal of Organic Chemistry, 2017, 37, 1978.	1.3	11
24	Molecular weight control of polyethylene waxes using a constrained iminoâ€cyclopenta[b]pyridylâ€nickel catalyst. Journal of Polymer Science Part A, 2017, 55, 3494-3505.	2.3	10
25	Chromium ethylene polymerization catalysts bearing sterically enhanced Î±,Î±â€²-bis(imino)-2,3:5,6-bis(pentamethylene)pyridines: Tuning activity and molecular weight. Polymer, 2019, 171, 87-95.	3.8	9
26	Direct synthesis of ring-fused quinolines and pyridines catalyzed by NN_HY-ligated manganese complexes (Y = NR₂ or SR). Catalysis Science and Technology, 2021, 11, 8026-8036.	4.1	9
27	Doubly fused N,N,N-iron ethylene polymerization catalysts appended with fluoride substituents; probing catalytic performance via a combined experimental and MLR study. Catalysis Science and Technology, 2021, 11, 4605-4618.	4.1	8
28	An air and moisture tolerant iminotrihydroquinoline-ruthenium(ii) catalyst for the transfer hydrogenation of ketones. Dalton Transactions, 2018, 47, 8738-8745.	3.3	6
29	Aza-crown compounds synthesised by the self-condensation of 2-amino-benzyl alcohol over a pincer ruthenium catalyst and applied in the transfer hydrogenation of ketones. Dalton Transactions, 2020, 49, 15821-15827.	3.3	3
30	Efficient base-free hydrodehalogenation of organic halides catalyzed by a well-defined diphosphine-ruthenium(II) complex. Molecular Catalysis, 2021, 516, 111953.	2.0	3
31	Recent progress of cobalt catalysts for homogeneous catalysis (de)hydrogenation. Scientia Sinica Chimica, 2021, 51, 995-1017.	0.4	1