Shengyu Dai

List of Publications by Year
in descending order

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58	3,622	159585	133252
papers	citations	30 h-index	59 g-index

59	59	59	1011
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A rigid-flexible double-layer steric strategy for ethylene (co)oligomerization with pyridine-imine Ni(<scp>ii</scp>) and Pd(<scp>ii</scp>) complexes. New Journal of Chemistry, 2022, 46, 8669-8678.	2.8	16
2	Direct synthesis of hyperbranched ethene oligomers and etheneâ€<scp>MA</scp> coâ€oligomers using iminopyridyl systems with weak neighboring group interactions. Journal of Polymer Science, 2022, 60, 1944-1953.	3.8	19
3	Synthesis of thermoplastic polyethylene elastomers and ethyleneâ€“methyl acrylate copolymers using methylene-bridged binuclear bulky dibenzhydryl Î±-diimine Ni(II) and Pd(II) catalysts. European Polymer Journal, 2022, 168, 111105.	5.4	14
4	Second coordination sphere effect of benzothiophene substituents on chain transfer and chain walking in ethylene insertion polymerization. Polymer, 2022, 245, 124707.	3.8	16
5	Facile Synthesis of Hyperbranched Ethylene Oligomers and Ethylene/Methyl Acrylate Co-oligomers with Different Microscopic Chain Architectures. ACS Polymers Au, 2022, 2, 88-96.	4.1	21
6	A Dual Steric Enhancement Strategy in Î±-Diimine Nickel and Palladium Catalysts for Ethylene Polymerization and Copolymerization. Organometallics, 2022, 41, 124-132.	2.3	23
7	Exploring the Relationship between the Polyethylene Microstructure and Spatial Structure of Î±-Diimine Pd(II) Catalysts via a Hybrid Steric Strategy. Inorganic Chemistry, 2022, 61, 6799-6806.	4.0	10
8	Synthesis of High-Molecular-Weight Branched Polyethylene Using a Hybrid â€œSandwichâ€•Pyridine-Imine Ni(II) Catalyst. Frontiers in Chemistry, 2022, 10, .	3.6	8
9	Facile Access to Ultra-Highly Branched Polyethylenes Using Hybrid â€œSandwichâ€•Ni(II) and Pd(II) Catalysts. Journal of Catalysis, 2022, , .	6.2	12
10	Efficient suppression of the chain transfer reaction in ethylene coordination polymerization with dibenzosuberyl substituents. Polymer Chemistry, 2022, 13, 4090-4099.	3.9	12
11	Propylene polymerization and copolymerization with polar monomers facilitated by flexible cycloalkyl substituents in Î±-diimine systems. Polymer, 2022, 254, 125076.	3.8	9
12	Flexible Axial Shielding Strategy for the Synthesis of High-Molecular-Weight Polyethylene and Polar Functionalized Polyethylene with Pyridine-Imine Ni(II) and Pd(II) Complexes. Organometallics, 2022, 41, 2042-2049.	2.3	10
13	Reversion of the chain walking ability of Î±-diimine nickel and palladium catalysts with bulky diarylmethyl substituents. Journal of Organometallic Chemistry, 2021, 932, 121649.	1.8	37
14	Efficient Suppression of Chain Transfer and Branching via C_sâ€Type Shielding in a Neutral Nickel(II) Catalyst. Angewandte Chemie - International Edition, 2021, 60, 4018-4022.	13.8	51
15	Efficient Suppression of Chain Transfer and Branching via C s â€Type Shielding in a Neutral Nickel(II) Catalyst. Angewandte Chemie, 2021, 133, 4064-4068.	2.0	5
16	Highly efficient incorporation of polar comonomers in copolymerizations with ethylene using iminopyridyl palladium system. Journal of Catalysis, 2021, 393, 51-59.	6.2	40
17	The synergistic effect of rigid and flexible substituents on insertion polymerization with Î±-diimine nickel and palladium catalysts. Polymer Chemistry, 2021, 12, 4643-4653.	3.9	36
18	Direct synthesis of various polar functionalized polypropylene materials with tunable molecular weights and high incorporation ratios. Polymer Chemistry, 2021, 12, 5495-5504.	3.9	10

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19	Efficient incorporation of a polar comonomer for direct synthesis of hyperbranched polar functional ethylene oligomers. New Journal of Chemistry, 2021, 45, 4024-4031.	2.8	29
20	Suppression of chain transfer via a restricted rotation effect of dibenzosuberyl substituents in polymerization catalysis. Polymer Chemistry, 2021, 12, 3240-3249.	3.9	38
21	Synthesis of polyethylene thermoplastic elastomer by using robust <scp>Î±â€diimine</scp> Ni(<scp>II</scp>) catalysts with abundant <scp>^tBu</scp> substituents. Journal of Polymer Science, 2021, 59, 638-645.	3.8	30
22	Flexible â€œSandwichâ€•(8-Alkylnaphthyl Î±-Diimine) Catalysts in Insertion Polymerization. Inorganic Chemistry, 2021, 60, 5673-5681.	4.0	33
23	Synthesis of Branched Polyethylene and Ethylene-MA Copolymers Using Unsymmetrical Iminopyridyl Nickel and Palladium Complexes. Organometallics, 2021, 40, 3033-3041.	2.3	32
24	Investigations of ligand backbone effects on bulky diarylmethyl-based nickel(II) and palladium(II) catalyzed ethylene polymerization and copolymerization. Journal of Organometallic Chemistry, 2021, 952, 122046.	1.8	18
25	Rotationâ€restricted strategy to synthesize high molecular weight polyethylene using iminopyridyl nickel and palladium catalyst. Applied Organometallic Chemistry, 2021, 35, e6140.	3.5	26
26	Synthesis of highly branched polyethylene and ethylene-MA copolymers using hybrid bulky Î±-diimine Pd(II) catalysts. Journal of Organometallic Chemistry, 2021, 956, 122118.	1.8	7
27	8-Arylnaphthyl substituent retarding chain transfer in insertion polymerization with unsymmetrical Î±-diimine systems. Polymer Chemistry, 2020, 11, 7199-7206.	3.9	34
28	The electronic effects on unsymmetrical Bis(imino)pyridyl iron(ii) catalyzed ethylene polymerization. Journal of Organometallic Chemistry, 2020, 923, 121457.	1.8	6
29	Synthesis of fluorinated polyethylene of different topologies via insertion polymerization with semifluorinated acrylates. Polymer Chemistry, 2020, 11, 6335-6342.	3.9	17
30	A Selfâ€Supporting Strategy for Gasâ€Phase and Slurryâ€Phase Ethylene Polymerization using Lateâ€Transitionâ€Metal Catalysts. Angewandte Chemie - International Edition, 2020, 59, 14884-14890.	13.8	55
31	A Selfâ€Supporting Strategy for Gasâ€Phase and Slurryâ€Phase Ethylene Polymerization using Lateâ€Transitionâ€Metal Catalysts. Angewandte Chemie, 2020, 132, 14994-15000.	2.0	7
32	Effect of aryl orientation on olefin polymerization in iminopyridyl catalytic system. Polymer, 2020, 200, 122607.	3.8	31
33	A remote nonconjugated electron effect in insertion polymerization with Î±-diimine nickel and palladium species. Polymer Chemistry, 2020, 11, 2692-2699.	3.9	52
34	Direct Synthesis of Polar Functionalized Polyethylene Thermoplastic Elastomer. Macromolecules, 2020, 53, 2539-2546.	4.8	87
35	Flexible cycloalkyl substituents in insertion polymerization with Î±-diimine nickel and palladium species. Polymer Chemistry, 2020, 11, 1393-1400.	3.9	78
36	Systematic Investigations of Ligand Steric Effects on Î±-Diimine Nickel Catalyzed Olefin Polymerization and Copolymerization. Organometallics, 2019, 38, 2919-2926.	2.3	99

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37	Bulky yet flexible substituents in insertion polymerization with Î±-diimine nickel and palladium systems. Polymer Chemistry, 2019, 10, 4866-4871.	3.9	74
38	Monoligated vs Bisligated Effect in Iminopyridyl Nickel Catalyzed Ethylene Polymerization. Organometallics, 2019, 38, 2800-2806.	2.3	31
39	Ï€â€“Ï€ interaction effect in insertion polymerization with Î±-Diimine palladium systems. Journal of Catalysis, 2019, 378, 184-191.	6.2	66
40	Synthesis of functional and hyperbranched ethylene oligomers using unsymmetrical Î±-diimine palladium catalysts. European Polymer Journal, 2019, 115, 185-192.	5.4	19
41	Large-scale synthesis of novel sterically hindered acenaphthene-based Î±-diimine ligands and their application in coordination chemistry. Journal of Organometallic Chemistry, 2018, 859, 58-67.	1.8	59
42	Ethylene Polymerization and Copolymerization Using Nickel 2-Iminopyridine-N-oxide Catalysts: Modulation of Polymer Molecular Weights and Molecular-Weight Distributions. Macromolecules, 2018, 51, 49-56.	4.8	100
43	Electronic Effects of the Backbone on Bis(imino)pyridyliron(II)â€Catalyzed Ethylene Polymerization. European Journal of Inorganic Chemistry, 2018, 2018, 4887-4892.	2.0	12
44	Direct Synthesis of Polar-Functionalized Linear Low-Density Polyethylene (LLDPE) and Low-Density Polyethylene (LDPE). Macromolecules, 2018, 51, 4040-4048.	4.8	132
45	Synthesis of Various Branched Ultra-High-Molecular-Weight Polyethylenes Using Sterically Hindered Acenaphthene-Based Î±-Diimine Ni(II) Catalysts. Organometallics, 2018, 37, 2442-2449.	2.3	88
46	Palladium-Catalyzed Direct Synthesis of Various Branched, Carboxylic Acid-Functionalized Polyolefins: Characterization, Derivatization, and Properties. Macromolecules, 2018, 51, 6818-6824.	4.8	104
47	Direct Synthesis of Thermoplastic Polyolefin Elastomers from Nickel-Catalyzed Ethylene Polymerization. Macromolecules, 2017, 50, 6074-6080.	4.8	137
48	Direct Synthesis of Branched Carboxylic Acid Functionalized Poly(1-octene) by Î±-Diimine Palladium Catalysts. Polymers, 2017, 9, 122.	4.5	35
49	Investigations of the Ligand Electronic Effects on Î±-Diimine Nickel(II) Catalyzed Ethylene Polymerization. Polymers, 2016, 8, 37.	4.5	116
50	Systematic Investigations of Ligand Steric Effects on Î±-Diimine Palladium Catalyzed Olefin Polymerization and Copolymerization. Macromolecules, 2016, 49, 8855-8862.	4.8	223
51	Direct Synthesis of Functionalized Highâ€Molecularâ€Weight Polyethylene by Copolymerization of Ethylene with Polar Monomers. Angewandte Chemie, 2016, 128, 13475-13479.	2.0	48
52	Direct Synthesis of Functionalized Highâ€Molecularâ€Weight Polyethylene by Copolymerization of Ethylene with Polar Monomers. Angewandte Chemie - International Edition, 2016, 55, 13281-13285.	13.8	263
53	Palladium and Nickel Catalyzed Chain Walking Olefin Polymerization and Copolymerization. ACS Catalysis, 2016, 6, 428-441.	11.2	418
54	Synthesis of high molecular weight polyethylene using iminopyridyl nickel catalysts. Chemical Communications, 2016, 52, 9113-9116.	4.1	94

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55	Ethylene polymerization by salicylaldimine nickel(<scp>ii</scp>) complexes containing a dibenzhydryl moiety. Dalton Transactions, 2016, 45, 1496-1503.	3.3	74
56	Highly Robust Palladium(II) Î±â€Diimine Catalysts for Slowâ€Chainâ€Walking Polymerization of Ethylene and Copolymerization with Methyl Acrylate. Angewandte Chemie - International Edition, 2015, 54, 9948-9953.	13.8	309
57	Pd(ii)-catalyzed, controllable Câ€“H mono-/diarylation of aryl tetrazoles: concise synthesis of Losartan. Organic and Biomolecular Chemistry, 2015, 13, 3198-3201.	2.8	9
58	Ethylene Polymerization and Copolymerization with Polar Monomers by Cationic Phosphine Phosphonic Amide Palladium Complexes. ACS Catalysis, 2015, 5, 5932-5937.	11.2	124