Zhengguo Cai

List of Publications by Year
in descending order

67 papers	1,475 citations	304368 22 h-index	344852 36 g-index
69 all docs	69 docs citations	69 times ranked	889 citing authors

#	Article	IF	Citations
1	Synthesis of Granular Hydroxy-Functionalized Ultra-high-molecular-weight Polyethylene and Its Fiber Properties. Advanced Fiber Materials, 2022, 4, 786-794.	7.9	3
2	Star polymers with norbornene/1-octene gradient copolymer arms synthesized by an ansa-fluorenylamidodimethyltitanium-[Ph3C][B(C6F5)4] catalyst system. Polymer, 2022, 249, 124844.	1.8	4
3	Phosphinobenzenamine Nickel Catalyzed Efficient Copolymerization of Methyl Acrylate with Ethylene and Norbornene. Macromolecules, 2022, 55, 3513-3521.	2.2	13
4	Polyolefins with Intrinsic Antimicrobial Properties. Macromolecules, 2021, 54, 64-70.	2.2	22
5	Synthesis and properties of block copolymers composed of norbornene/higher Î±-olefin gradient segments using ansa-fluorenylamidodimethyltitanium-[Ph₃C][B(C₆F₅)₄] catalyst system. Polymer Chemistry, 2021, 12, 189-195.	1.9	8
6	Synthesis of 1,2-bis(imidazolidin-2-imine)benzene nickel complexes and their application for norbornene (co)polymerization with styrene. European Polymer Journal, 2021, 150, 110426.	2.6	10
7	Hydrogenâ€Bondingâ€Induced Heterogenization of Nickel and Palladium Catalysts for Copolymerization of Ethylene with Polar Monomers. Angewandte Chemie - International Edition, 2021, 60, 17446-17451.	7.2	64
8	Hydrogenâ€Bondingâ€Induced Heterogenization of Nickel and Palladium Catalysts for Copolymerization of Ethylene with Polar Monomers. Angewandte Chemie, 2021, 133, 17586-17591.	1.6	19
9	Bis(N-acylated imidazolin-2-imine) nickel catalyzed norbornene copolymerization with methyl acrylate. Polymer Chemistry, 2020, 11, 5542-5547.	1.9	9
10	Synthesis and Properties of Gradient Copolymers Composed of Norbornene and Higher Î±-Olefins Using an ansa-Fluorenylamidodimethyltitanium-[Ph₃C][B(C₆F₅)₄] Catalyst System. Macromolecules, 2020, 53, 4323-4329.	2.2	21
11	Rational design of nickel catalysts containing N-acylated imidazolin-2-imine ligand for ethylene copolymerization with polar monomer. Journal of Catalysis, 2020, 383, 117-123.	3.1	23
12	Copolymerization of Ethylene and Fluoroalkylnorbornene Using Highly Active ansaâ€•(Fluorenyl)(amido)titaniumâ€Based Catalysts. Macromolecular Chemistry and Physics, 2019, 220, 1900306.	1.1	5
13	Norbornene polymerization and copolymerization with 1-alkenes by neutral palladium complexes bearing aryloxide imidazolin-2-imine ligand. Polymer Chemistry, 2019, 10, 2741-2748.	1.9	21
14	Optically Transparent Functional Polyolefin Elastomer with Excellent Mechanical and Thermal Properties. ACS Macro Letters, 2019, 8, 299-303.	2.3	45
15	Synthesis and Aggregation Behavior of Poly(arylene alkenylene)s and Poly(arylene alkylene)s Having Dialkoxyphenylene and Aromatic Diimide Groups. Macromolecules, 2019, 52, 1642-1652.	2.2	5
16	Synthesis, Structures, and Norbornene Polymerization Behavior of Neutral Nickel(II) and Palladium(II) Complexes Bearing Aryloxide Imidazolidin-2-imine Ligands. Organometallics, 2018, 37, 1172-1180.	1.1	32
17	(Anilino)anthraquinone Nickelâ€Catalyzed Random Copolymerization of Norbornene and Ethylene. ChemCatChem, 2018, 10, 497-500.	1.8	17
18	Efficient ethylene copolymerization with polar monomers using palladium anilinonaphthoquinone catalysts. Polymer Chemistry, 2018, 9, 5476-5482.	1.9	21

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19	Substituent Effects of Phenyl Group on Silylene Bridge in Stereospecific Polymerization of Propylene with C1-Symmetric Ansa-Silylene(fluorenyl)(amido) Dimethyl Titanium Complexes. Polymers, 2018, 10, 1075.	2.0	2
20	Neutral Nickel(II) Complexes Bearing Aryloxide Imidazolin-2-imine Ligands for Efficient Copolymerization of Norbornene and Polar Monomers. Organometallics, 2018, 37, 4753-4762.	1.1	25
21	Ethylene Polymerization and Copolymerization with Polar Monomers Using Nickel Complexes Bearing Anilinobenzoic Acid Methyl Ester Ligand. Polymers, 2018, 10, 754.	2.0	9
22	Structurally simple dinuclear nickel catalyzed olefin copolymerization with polar monomers. Journal of Catalysis, 2018, 368, 291-297.	3.1	39
23	Efficient control of ethyleneâ€“norbornene copolymerization behavior of a fluorenylamido-ligated titanium complex: substituent effects of the amido ligand and copolymer properties. Polymer Chemistry, 2018, 9, 4492-4497.	1.9	11
24	Synthesis of Hydroxy-Functionalized Cyclic Olefin Copolymer and Its Block Copolymers with Semicrystalline Polyolefin Segments. Macromolecular Rapid Communications, 2017, 38, 1600815.	2.0	18
25	Living polymerization of higher 2-alkene with Î±-diimine nickel catalysts: Synthesis and characterization of high molecular weight poly(2-alkene)s. Polymer, 2017, 127, 88-100.	1.8	24
26	Highly Active ansa-(Fluorenyl)(amido)titanium-Based Catalysts with Low Load of Methylaluminoxane for Syndiotactic-Specific Living Polymerization of Propylene. Organometallics, 2017, 36, 3009-3012.	1.1	11
27	Highly Robust Nickel Catalysts Containing Anilinonaphthoquinone Ligand for Copolymerization of Ethylene and Polar Monomers. Macromolecules, 2017, 50, 9216-9221.	2.2	77
28	Living Polymerization of Propylene with ansa-Dimethylsilylene(fluorenyl)(cumylamido) Titanium Complexes. Polymers, 2017, 9, 131.	2.0	4
29	Substituent Effects of Adamantyl Group on Amido Ligand in Syndiospecific Polymerization of Propylene with Ansa-Dimethylsilylene(Fluorenyl)(Amido) Zirconium Complex. Polymers, 2017, 9, 632.	2.0	2
30	Synthesis and Biodegradation of Poly(l-lactide-co-Î²-propiolactone). International Journal of Molecular Sciences, 2017, 18, 1312.	1.8	13
31	Synthesis of Highly Branched Polyolefins Using Phenyl Substituted Î±-Diimine Ni(II) Catalysts. Polymers, 2016, 8, 160.	2.0	36
32	Precision Chainâ€Walking Polymerization of transâ€4â€Octene Catalyzed by Î±â€Diimine Nickel(II) Catalysts Bearing orthoâ€secâ€Phenethyl Groups. Macromolecular Rapid Communications, 2016, 37, 1375-1381.	2.0	26
33	Facile Synthesis of Novel Polyethyleneâ€Based Aâ€Bâ€C Block Copolymers Containing Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 227-231.	2.0	13
34	Structure-stereospecificity relationships of propylene polymerization using substituted ansa-silylene(fluorenyl)(amido) titanium complexes. Journal of Organometallic Chemistry, 2016, 804, 95-100.	0.8	7
35	Stereospecific Ring-Opening Metathesis Polymerization of Norbornene Catalyzed by Ruthenium and Osmium Complexes with Chelating Hetero-Donor Ligands. Kobunshi Ronbunshu, 2015, 72, 460-467.	0.2	1
36	Roomâ€temperature Suzukiâ€“Miyauracrossâ€coupling reaction with Î±â€diimine Pd(II) catalysts. Applied Organometallic Chemistry, 2015, 29, 771-776.	1.7	15

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37	Reactivity Comparison of Ï‰-Alkenols and Higher 1-Alkenes in Copolymerization with Propylene Using An Isospecific Zirconocene-MMAO Catalyst. Polymers, 2015, 7, 2009-2016.	2.0	3
38	Synthesis of polystyrene-grafted cycloolefin copolymer. Polymer, 2015, 70, 252-256.	1.8	11
39	Ethyleneâ€“propylene copolymerization behavior of ansaâ€dimethylsilylene(fluorenyl)(amido)dimethyltitanium complex: Application to ethyleneâ€“propyleneâ€“diene or ethyleneâ€“propyleneâ€“norbornene terpolymers. Journal of Polymer Science Part A, 2015, 53, 685-691.	2.5	21
40	Norbornene homopolymerization and copolymerization with ethylene by phosphine-sulfonate nickel catalysts. Polymer Chemistry, 2015, 6, 2669-2676.	1.9	88
41	Synthesis of Aliphatic Polyesters via Ringâ€Opening Polymerization of Macrocyclic Oligoesters. Macromolecular Symposia, 2015, 350, 7-13.	0.4	2
42	Synthesis of biodegradable thermoplastic elastomers from Îµâ€caprolactone and lactide. Journal of Polymer Science Part A, 2015, 53, 489-495.	2.5	44
43	Synthesis and Properties of Poly(Îµ-carprolactone)-based Poly(ester-urethane)s Having Quaternary Ammonium Groups. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2014, 93, 916-920.	0.2	4
44	Synthesis of C1 symmetrical ansa-cyclopentadienylamidotitanium complexes and their application for living polymerization of propylene. Journal of Organometallic Chemistry, 2014, 770, 136-141.	0.8	5
45	Synthesis and thermal, mechanical, and optical properties of Aâ€“Bâ€“A or Aâ€“B block copolymers containing poly(norborneneâ€•co â€1â€octene). Journal of Polymer Science Part A, 2014, 52, 267-271.	2.5	20
46	Synthesis of a Multiblock Copolymer of cisâ€1,4â€Polybutadiene and Poly(3â€butenâ€1â€ol). Macromolecular Chemistry and Physics, 2014, 215, 888-892.	1.1	4
47	Copolymerization of ethylene with 1,1â€disubstituted olefins catalyzed by ansaâ€(fluorenyl)(cyclododecylamido)dimethyltitanium complexes. Journal of Polymer Science Part A, 2013, 51, 1223-1229.	2.5	23
48	Synthesis and properties of cationic ionomers from poly(ester-urethane)s based on polylactide. Journal of Polymer Science Part A, 2013, 51, 4423-4428.	2.5	20
49	Copolymerization of Ethylene and 1â€Hexene with Ansaâ€Dimethylsilylene(fluorenyl)(tâ€butylamido)Dimethyltitanium Complexes Activated by Modified Methylaluminoxane. Macromolecular Chemistry and Physics, 2013, 214, 2584-2590.	1.1	2
50	Enhancement of Chain Growth and Chain Transfer Rates in Ethylene Polymerization by (Phosphine-sulfonate)PdMe Catalysts by Binding of B(C₆F₅)₃ to the Sulfonate Group. ACS Catalysis, 2012, 2, 1187-1195.	5.5	72
51	Highly thermostable and low birefringent norborneneâ€styrene copolymers with advanced optical properties: A potential plastic substrate for flexible displays. Journal of Polymer Science Part A, 2011, 49, 65-71.	2.5	28
52	Highly transâ€1,4â€specific polymerization of 1,3â€butadiene catalyzed by [2,6â€bis{(4S)â€•(â˜)â€isopropylâ€2â€oxazolinâ€2â€yl}pyridine] chromium complex activated with modified methylaluminoxane. Polymer International, 2011, 60, 692-697.	1.6	23
53	High activity of rare earth tetrahydroborates for ringâ€opening polymerization of Ï‰â€pentadecalactone. Journal of Applied Polymer Science, 2011, 121, 2098-2103.	1.3	36
54	Synthesis of stereoblock polypropylene by change of temperature in living polymerization. Macromolecular Research, 2010, 18, 737-741.	1.0	13

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55	Efficient Molecular Weight Control with Trialkylaluminum in Ethylene/Norbornene Copolymerization by [Ph2 C(Flu)(3-MeCp)]ZrCl2 /Methylaluminoxane Catalyst. Macromolecular Chemistry and Physics, 2010, 211, 2132-2137.	1.1	4
56	Highly Active Living Random Copolymerization of Norbornene and 1-Alkene with ansa-Fluorenylamidodimethyltitanium Derivative: Substituent Effects on Fluorenyl Ligand. Macromolecules, 2010, 43, 4527-4531.	2.2	61
57	Highly Active Syndiospecific Living Polymerization of Higher 1â€Alkene with ansaâ€Fluorenylamidodimethyltitanium Complex. Macromolecular Rapid Communications, 2009, 30, 1812-1816.	2.0	20
58	A Highly Active Catalyst Composed of ansa-Fluorenylamidodimethyltitanium Derivative for Propene Polymerization. Topics in Catalysis, 2009, 52, 675-680.	1.3	15
59	Synthesis of Regioblock Polybutadiene with CoCl₂-Based Catalyst via Reversible Coordination of Lewis Base. Macromolecules, 2009, 42, 7642-7643.	2.2	40
60	Catalytic Synthesis of a Monodisperse Olefin Block Copolymer Using a Living Polymerization System. Macromolecular Rapid Communications, 2008, 29, 525-529.	2.0	17
61	Facile Synthesis of Tailor-Made Stereoblock Polypropylenes via Successive Variation of Monomer Pressure. Macromolecules, 2008, 41, 6596-6598.	2.2	17
62	Random Copolymerization of Norbornene with Higher 1-Alkene with ansa-Fluorenylamidodimethyltitanium Catalyst. Macromolecules, 2008, 41, 8292-8294.	2.2	66
63	Living Polymerization of Hydrocarbon Monomers with Titanium-Based Catalysts. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2008, 66, 664-672.	0.0	4
64	Stereospecific Living Polymerization of Hydrocarbon Monomers. Kobunshi Ronbunshu, 2007, 64, 77-89.	0.2	3
65	Living Random Copolymerization of Propylene and Norbornene withansa-Fluorenylamidodimethyltitanium Complex:Â Synthesis of Novel Syndiotactic Polypropylene-b-poly(propylene-ran-norbornene). Macromolecules, 2006, 39, 2031-2033.	2.2	63
66	Effects of Temperature in Syndiospecific Living Polymerization of Propylene with [t-BuNSiMe2(3,6-t-Bu2Flu)]TiMe2-MMAO Catalyst. Studies in Surface Science and Catalysis, 2006, 161, 189-192.	1.5	3
67	Substituent Effects oftert-Butyl Groups on Fluorenyl Ligand in Syndiospecific Living Polymerization of Propylene withansa-Fluorenylamidodimethyltitanium Complex. Macromolecules, 2005, 38, 8135-8139.	2.2	68