

Zhengguo Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/375270/publications.pdf>

Version: 2024-02-01

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	Norbornene homopolymerization and copolymerization with ethylene by phosphine-sulfonate nickel catalysts. <i>Polymer Chemistry</i> , 2015, 6, 2669-2676.	1.9	88
2	Highly Robust Nickel Catalysts Containing Anilinoanthraquinone Ligand for Copolymerization of Ethylene and Polar Monomers. <i>Macromolecules</i> , 2017, 50, 9216-9221.	2.2	77
3	Enhancement of Chain Growth and Chain Transfer Rates in Ethylene Polymerization by (Phosphine-sulfonate)PdMe Catalysts by Binding of B(C ₆ F ₅) ₃ to the Sulfonate Group. <i>ACS Catalysis</i> , 2012, 2, 1187-1195.	5.5	72
4	Substituent Effects of tert-Butyl Groups on Fluorenyl Ligand in Syndiospecific Living Polymerization of Propylene with an <i>ansa</i> -Fluorenylamidodimethyltitanium Complex. <i>Macromolecules</i> , 2005, 38, 8135-8139.	2.2	68
5	Random Copolymerization of Norbornene with Higher 1-Alkene with <i>ansa</i> -Fluorenylamidodimethyltitanium Catalyst. <i>Macromolecules</i> , 2008, 41, 8292-8294.	2.2	66
6	Hydrogen Bonding-Induced Heterogenization of Nickel and Palladium Catalysts for Copolymerization of Ethylene with Polar Monomers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17446-17451.	7.2	64
7	Living Random Copolymerization of Propylene and Norbornene with an <i>ansa</i> -Fluorenylamidodimethyltitanium Complex: Synthesis of Novel Syndiotactic Polypropylene- <i>b</i> -poly(propylene- <i>ran</i> -norbornene). <i>Macromolecules</i> , 2006, 39, 2031-2033.	2.2	63
8	Highly Active Living Random Copolymerization of Norbornene and 1-Alkene with <i>ansa</i> -Fluorenylamidodimethyltitanium Derivative: Substituent Effects on Fluorenyl Ligand. <i>Macromolecules</i> , 2010, 43, 4527-4531.	2.2	61
9	Optically Transparent Functional Polyolefin Elastomer with Excellent Mechanical and Thermal Properties. <i>ACS Macro Letters</i> , 2019, 8, 299-303.	2.3	45
10	Synthesis of biodegradable thermoplastic elastomers from ϵ -caprolactone and lactide. <i>Journal of Polymer Science Part A</i> , 2015, 53, 489-495.	2.5	44
11	Synthesis of Regio-block Polybutadiene with CoCl ₂ -Based Catalyst via Reversible Coordination of Lewis Base. <i>Macromolecules</i> , 2009, 42, 7642-7643.	2.2	40
12	Structurally simple dinuclear nickel catalyzed olefin copolymerization with polar monomers. <i>Journal of Catalysis</i> , 2018, 368, 291-297.	3.1	39
13	High activity of rare earth tetrahydroborates for ring-opening polymerization of ϵ -pentadecalactone. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2098-2103.	1.3	36
14	Synthesis of Highly Branched Polyolefins Using Phenyl Substituted \pm -Diimine Ni(II) Catalysts. <i>Polymers</i> , 2016, 8, 160.	2.0	36
15	Synthesis, Structures, and Norbornene Polymerization Behavior of Neutral Nickel(II) and Palladium(II) Complexes Bearing Aryloxy Imidazolidin-2-imine Ligands. <i>Organometallics</i> , 2018, 37, 1172-1180.	1.1	32
16	Highly thermostable and low birefringent norbornene- <i>styrene</i> copolymers with advanced optical properties: A potential plastic substrate for flexible displays. <i>Journal of Polymer Science Part A</i> , 2011, 49, 65-71.	2.5	28
17	Precision Chain-Walking Polymerization of <i>trans</i> -4-Octene Catalyzed by \pm -Diimine Nickel(II) Catalysts Bearing <i>ortho</i> -Phenethyl Groups. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1375-1381.	2.0	26
18	Neutral Nickel(II) Complexes Bearing Aryloxy Imidazolin-2-imine Ligands for Efficient Copolymerization of Norbornene and Polar Monomers. <i>Organometallics</i> , 2018, 37, 4753-4762.	1.1	25

#	ARTICLE	IF	CITATIONS
19	Living polymerization of higher 2-alkene with \pm -diimine nickel catalysts: Synthesis and characterization of high molecular weight poly(2-alkene)s. <i>Polymer</i> , 2017, 127, 88-100.	1.8	24
20	Highly <i>trans</i> -1,4-specific polymerization of 1,3-butadiene catalyzed by [2,6-bis(4 <i>S</i>)- α -isopropyl-2-oxazolin-2-yl]pyridine] chromium complex activated with modified methylaluminumoxane. <i>Polymer International</i> , 2011, 60, 692-697.	1.6	23
21	Copolymerization of ethylene with 1,1-disubstituted olefins catalyzed by <i>ansa</i> -(fluorenyl)(cyclododecylamido)dimethyltitanium complexes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1223-1229.	2.5	23
22	Rational design of nickel catalysts containing N-acylated imidazolin-2-imine ligand for ethylene copolymerization with polar monomer. <i>Journal of Catalysis</i> , 2020, 383, 117-123.	3.1	23
23	Polyolefins with Intrinsic Antimicrobial Properties. <i>Macromolecules</i> , 2021, 54, 64-70.	2.2	22
24	Ethylene-propylene copolymerization behavior of <i>ansa</i> -dimethylsilylene(fluorenyl)(amido)dimethyltitanium complex: Application to ethylene-propylene-diene or ethylene-propylene-norbornene terpolymers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 685-691.	2.5	21
25	Efficient ethylene copolymerization with polar monomers using palladium anilinonaphthoquinone catalysts. <i>Polymer Chemistry</i> , 2018, 9, 5476-5482.	1.9	21
26	Norbornene polymerization and copolymerization with 1-alkenes by neutral palladium complexes bearing aryloxide imidazolin-2-imine ligand. <i>Polymer Chemistry</i> , 2019, 10, 2741-2748.	1.9	21
27	Synthesis and Properties of Gradient Copolymers Composed of Norbornene and Higher \pm -Olefins Using an <i>ansa</i> -Fluorenylamidodimethyltitanium-[Ph ₃ C][B(C ₆ F ₅) ₄] ² Catalyst System. <i>Macromolecules</i> , 2020, 53, 4323-4329.		21
28	Highly Active Syndiospecific Living Polymerization of Higher 1-Alkene with <i>ansa</i> -Fluorenylamidodimethyltitanium Complex. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1812-1816.	2.0	20
29	Synthesis and properties of cationic ionomers from poly(ester-urethane)s based on polylactide. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4423-4428.	2.5	20
30	Synthesis and thermal, mechanical, and optical properties of A-B or A-B block copolymers containing poly(norbornene-co-1-octene). <i>Journal of Polymer Science Part A</i> , 2014, 52, 267-271.	2.5	20
31	Hydrogen-Bonding-Induced Heterogenization of Nickel and Palladium Catalysts for Copolymerization of Ethylene with Polar Monomers. <i>Angewandte Chemie</i> , 2021, 133, 17586-17591.	1.6	19
32	Synthesis of Hydroxy-Functionalized Cyclic Olefin Copolymer and Its Block Copolymers with Semicrystalline Polyolefin Segments. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600815.	2.0	18
33	Catalytic Synthesis of a Monodisperse Olefin Block Copolymer Using a Living Polymerization System. <i>Macromolecular Rapid Communications</i> , 2008, 29, 525-529.	2.0	17
34	Facile Synthesis of Tailor-Made Stereoblock Polypropylenes via Successive Variation of Monomer Pressure. <i>Macromolecules</i> , 2008, 41, 6596-6598.	2.2	17
35	(Anilino)anthraquinone Nickel-Catalyzed Random Copolymerization of Norbornene and Ethylene. <i>ChemCatChem</i> , 2018, 10, 497-500.	1.8	17
36	A Highly Active Catalyst Composed of <i>ansa</i> -Fluorenylamidodimethyltitanium Derivative for Propene Polymerization. <i>Topics in Catalysis</i> , 2009, 52, 675-680.	1.3	15

#	ARTICLE	IF	CITATIONS
37	Room-temperature Suzuki-Miyaura cross-coupling reaction with π -diimine Pd(II) catalysts. Applied Organometallic Chemistry, 2015, 29, 771-776.	1.7	15
38	Synthesis of stereoblock polypropylene by change of temperature in living polymerization. Macromolecular Research, 2010, 18, 737-741.	1.0	13
39	Facile Synthesis of Novel Polyethylene-Based Block Copolymers Containing Poly(methyl Tj ETQq1 1 0.784314 rgBT /Overf 227-231.	2.0	13
40	Synthesis and Biodegradation of Poly(l-lactide-co- β -propiolactone). International Journal of Molecular Sciences, 2017, 18, 1312.	1.8	13
41	Phosphinobenzenamine Nickel Catalyzed Efficient Copolymerization of Methyl Acrylate with Ethylene and Norbornene. Macromolecules, 2022, 55, 3513-3521.	2.2	13
42	Synthesis of polystyrene-grafted cycloolefin copolymer. Polymer, 2015, 70, 252-256.	1.8	11
43	Highly Active <i>ansa</i> -(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
44	Efficient control of ethylene-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
45	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
46	Ethylene Polymerization and Copolymerization with Polar Monomers Using Nickel Complexes Bearing Anilinobenzoic Acid Methyl Ester Ligand. Polymers, 2018, 10, 754.	2.0	9
47	Bis(<i>N</i> -acylated imidazolin-2-imine) nickel catalyzed norbornene copolymerization with methyl acrylate. Polymer Chemistry, 2020, 11, 5542-5547.	1.9	9
48	Synthesis and properties of block copolymers composed of norbornene/higher α -olefin gradient segments using <i>ansa</i> -fluorenylamidodimethyltitanium-[Ph ₃ C][B(C ₆ F ₅) ₄] ^{1,9} catalyst system. Polymer Chemistry, 2021, 12, 189-195.	1.9	8
49	Structure-stereospecificity relationships of propylene polymerization using substituted <i>ansa</i> -silylene(fluorenyl)(amido) titanium complexes. Journal of Organometallic Chemistry, 2016, 804, 95-100.	0.8	7
50	Synthesis of C1 symmetrical <i>ansa</i> -cyclopentadienylamidotitanium complexes and their application for living polymerization of propylene. Journal of Organometallic Chemistry, 2014, 770, 136-141.	0.8	5
51	Copolymerization of Ethylene and Fluoroalkylnorbornene Using Highly Active <i>ansa</i> -(Fluorenyl)(amido)titanium-Based Catalysts. Macromolecular Chemistry and Physics, 2019, 220, 1900306.	1.1	5
52	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
53	Living Polymerization of Hydrocarbon Monomers with Titanium-Based Catalysts. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2008, 66, 664-672.	0.0	4
54	Efficient Molecular Weight Control with Trialkylaluminum in Ethylene/Norbornene Copolymerization by [Ph ₂ C(Flu)(3-MeCp)]ZrCl ₂ /Methylaluminoxane Catalyst. Macromolecular Chemistry and Physics, 2010, 211, 2132-2137.	1.1	4

#	ARTICLE	IF	CITATIONS
55	Synthesis and Properties of Poly(μ -carprolactone)-based Poly(ester-urethane)s Having Quaternary Ammonium Groups. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2014, 93, 916-920.	0.2	4
56	Synthesis of a Multiblock Copolymer of <i>cis</i> -1,4-Polybutadiene and Poly(3-huten-1-ol). <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 888-892.	1.1	4
57	Living Polymerization of Propylene with <i>ansa</i> -Dimethylsilylene(fluorenyl)(cumylamido) Titanium Complexes. <i>Polymers</i> , 2017, 9, 131.	2.0	4
58	Star polymers with norbornene/1-octene gradient copolymer arms synthesized by an <i>ansa</i> -fluorenylamidodimethyltitanium-[Ph ₃ C][B(C ₆ F ₅) ₄] catalyst system. <i>Polymer</i> , 2022, 249, 124844.	1.8	4
59	Effects of Temperature in Syndiospecific Living Polymerization of Propylene with [t-BuNSiMe ₂ (3,6-t-Bu ₂ Flu)]TiMe ₂ -MMAO Catalyst. <i>Studies in Surface Science and Catalysis</i> , 2006, 161, 189-192.	1.5	3
60	Stereospecific Living Polymerization of Hydrocarbon Monomers. <i>Kobunshi Ronbunshu</i> , 2007, 64, 77-89.	0.2	3
61	Reactivity Comparison of α -Alkenols and Higher 1-Alkenes in Copolymerization with Propylene Using An Isospecific Zirconocene-MMAO Catalyst. <i>Polymers</i> , 2015, 7, 2009-2016.	2.0	3
62	Synthesis of Granular Hydroxy-Functionalized Ultra-high-molecular-weight Polyethylene and Its Fiber Properties. <i>Advanced Fiber Materials</i> , 2022, 4, 786-794.	7.9	3
63	Copolymerization of Ethylene and 1-hexene with <i>ansa</i> -Dimethylsilylene(fluorenyl)(<i>tert</i> -butylamido)Dimethyltitanium Complexes Activated by Modified Methylaluminumoxane. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2584-2590.	1.1	2
64	Synthesis of Aliphatic Polyesters via Ring-Opening Polymerization of Macrocyclic Oligoesters. <i>Macromolecular Symposia</i> , 2015, 350, 7-13.	0.4	2
65	Substituent Effects of Adamantyl Group on Amido Ligand in Syndiospecific Polymerization of Propylene with <i>ansa</i> -Dimethylsilylene(Fluorenyl)(Amido) Zirconium Complex. <i>Polymers</i> , 2017, 9, 632.	2.0	2
66	Substituent Effects of Phenyl Group on Silylene Bridge in Stereospecific Polymerization of Propylene with C ₁ -Symmetric <i>ansa</i> -Silylene(fluorenyl)(amido) Dimethyl Titanium Complexes. <i>Polymers</i> , 2018, 10, 1075.	2.0	2
67	Stereospecific Ring-Opening Metathesis Polymerization of Norbornene Catalyzed by Ruthenium and Osmium Complexes with Chelating Hetero-Donor Ligands. <i>Kobunshi Ronbunshu</i> , 2015, 72, 460-467.	0.2	1