

Tao Jiang

List of Publications by Year in descending order

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65
papers

788
citations

516215

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676716

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65
all docs

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docs citations

65
times ranked

665
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of 1-octene by the selective tetramerization of ethylene. <i>Journal of Molecular Catalysis A</i> , 2006, 259, 161-165.	4.8	41
2	Catalytic Systems Based on Chromium(III) Silylated-Diphosphinoamines for Selective Ethylene Tri-/Tetramerization. <i>ACS Catalysis</i> , 2018, 8, 10836-10845.	5.5	40
3	The effect of N-aryl bisphosphineamine ligands on the selective ethylene tetramerization. <i>Journal of Molecular Catalysis A</i> , 2008, 279, 90-93.	4.8	32
4	Construction of defect-engineered three-dimensionally ordered macroporous WO_3 for efficient photocatalytic water oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3036-3043.	5.2	32
5	Chromium-Based Ethylene Tetramerization Catalysts Supported by Silicon-Bridged Diphosphine Ligands: Further Combination of High Activity and Selectivity. <i>ChemCatChem</i> , 2017, 9, 76-79.	1.8	26
6	Efficient chromium-based catalysts for ethylene tri-/tetramerization switched by silicon-bridged/N,P-based ancillary ligands: a structural, catalytic and DFT study. <i>Catalysis Science and Technology</i> , 2017, 7, 5011-5018.	2.1	22
7	Metallocene-catalyzed oligomerizations of 1-butene and α -olefins: Toward synthetic lubricants. <i>European Polymer Journal</i> , 2014, 59, 208-217.	2.6	21
8	Chromium catalysts stabilized by alkylphosphanyl PNP ligands for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , 2021, 404, 163-173.	3.1	21
9	Diastereoselective Cyclization of 1,5-Dienes with the C-H Bond of Pyridine Catalyzed by a Cationic Mono(phosphinoamide) Alkyl Scandium Complex. <i>ChemCatChem</i> , 2018, 10, 159-164.	1.8	20
10	Synthesis of novel guanidine-based ABA triblock copolymers and their antimicrobial honeycomb films. <i>Polymer Chemistry</i> , 2018, 9, 3922-3930.	1.9	20
11	Tandem Cyclization/Hydroarylation of α -Dienes Triggered by Scandium-Catalyzed C-H Activation. <i>ACS Catalysis</i> , 2019, 9, 599-604.	5.5	20
12	Constructing a high-efficiency iron-based catalyst for carbon dioxide oxidative dehydrogenation of 1-butene: The role of oxygen mobility and proposed reaction mechanism. <i>Applied Catalysis A: General</i> , 2019, 572, 71-79.	2.2	20
13	Effect of compressed CO ₂ on the size and stability of reverse micelles: Small-angle x-ray scattering and phase behavior study. <i>Journal of Chemical Physics</i> , 2003, 118, 3329-3333.	1.2	19
14	Performance of various aluminoxane activators in ethylene tetramerization based on PNP/Cr(III) catalyst system. <i>Catalysis Communications</i> , 2007, 8, 1145-1148.	1.6	19
15	Synthesis of new ionic crosslinked polymer hydrogel combining polystyrene and poly(4-vinyl pyridine) and its self-healing through a reshuffling reaction of the trithiocarbonate moiety under irradiation of ultraviolet light. <i>Polymer International</i> , 2018, 67, 868-873.	1.6	19
16	Preparation of Lubricant Base Stocks with High Viscosity Index through 1-Decene Oligomerization Catalyzed by Alkylaluminum Chloride Promoted by Metal Chloride. <i>Energy & Fuels</i> , 2020, 34, 2214-2220.	2.5	19
17	Research progress of defect-engineered UiO-66(Zr) MOFs for photocatalytic hydrogen production. <i>Frontiers in Energy</i> , 2021, 15, 656-666.	1.2	18
18	Preparation of 1-octene by ethylene tetramerization with high selectivity. <i>Science Bulletin</i> , 2006, 51, 521-523.	1.7	16

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19	Synthesis of a novel triple-site diphosphinoamine (PNP) ligand and its applications in ethylene tetramerization. <i>Science Bulletin</i> , 2008, 53, 3511-3515.	4.3	16
20	Nickel complexes incorporating pyrazole-based ligands for ethylene dimerization to 1-butylene. <i>Journal of Organometallic Chemistry</i> , 2015, 798, 388-392.	0.8	16
21	Immobilizing enzymes in regular-sized gelatin microspheres through a membrane emulsification method. <i>Journal of Materials Science</i> , 2016, 51, 6357-6369.	1.7	15
22	One-pot Preparation of Ni ₂ P/Al ₂ O ₃ Catalyst for Dehydrogenation of Propane to Propylene. <i>ChemistrySelect</i> , 2018, 3, 10532-10536.	0.7	15
23	Enhancing tetralin hydrogenation activity and sulphur-tolerance of Pt/MCM-41 catalyst with Al(NO ₃) ₃ , AlCl ₃ and Al(CH ₃) ₃ . <i>Catalysis Science and Technology</i> , 2014, 4, 2081-2090.	2.1	14
24	Silane-bridged diphosphine ligands for nickel-catalyzed ethylene oligomerization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 119, 481-490.	0.8	14
25	Preparation of porous spherical MgCl ₂ /SiO ₂ complex support as precursor for catalytic propylene polymerization. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1296-1299.	1.3	13
26	Enhanced Carbon Dioxide Oxidative Dehydrogenation of 1-Butene by Iron-Doped Ordered Mesoporous Alumina. <i>ChemCatChem</i> , 2017, 9, 4480-4483.	1.8	13
27	Chromium(III) catalysts based on tridentate silicon-bridged tris(diphenylphosphine) ligands for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , 2020, 392, 278-286.	3.1	13
28	Study on morphology of high impact polypropylene prepared by in situ blending. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1386-1390.	1.3	12
29	New synthetic strategy targeting well-defined \pm telechelic polymethylenes with hetero bi-/tri-functionalities via polyhomologation of ylides initiated by new organic boranes based on catecholborane and post functionalization. <i>RSC Advances</i> , 2016, 6, 69828-69835.	1.7	12
30	Synthesis of polymethylene-b-poly(vinyl acetate) block copolymer via visible light induced radical polymerization and its application. <i>RSC Advances</i> , 2017, 7, 42484-42490.	1.7	12
31	Chromium catalysts supported on mesoporous silica for ethylene tetramerization: Effect of the porous structure of the supports. <i>Catalysis Communications</i> , 2015, 60, 14-18.	1.6	11
32	Preparation of ethylene/1-octene copolymers from ethylene stock with tandem catalytic system. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3071-3075.	1.3	10
33	Copolymerization of ethylene and propylene catalyzed by magnesium chloride supported vanadium/titanium bimetallic Ziegler-Natta catalysts. <i>Chinese Journal of Polymer Science (English)</i> Tj ETQq1 1 0.784314 rgBT1/Overlo		
34	Catalytic oxidative dehydrogenation of 1-butene to 1,3-butadiene with CO ₂ over Fe ₂ O ₃ /Al ₂ O ₃ catalysts: the effect of acid or alkali modification. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 451-462.	0.8	10
35	Ethylene oligomerization promoted by nickel-based catalysts with silicon-bridged diphosphine amine ligands. <i>Transition Metal Chemistry</i> , 2019, 44, 125-133.	0.7	10
36	Ortho-C-H addition of 2-substituted pyridines with alkenes and imines enabled by mono(phosphinoamido)-rare earth complexes. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6345.	1.7	10

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37	Boron- and silicon-bridged bis(diphenylphosphino)-type ligands for chromium-catalyzed ethylene oligomerization. <i>Science Bulletin</i> , 2014, 59, 2613-2617.	1.7	9
38	In situ formed Cr(III) based silicon-bridged PNS systems for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , 2019, 378, 312-319.	3.1	9
39	Ethylene tetramerization with a highly active and long-lifetime trinuclear diphenylphosphinoamine/Cr(III)/MAO catalyst. <i>Science Bulletin</i> , 2012, 57, 1510-1515.	1.7	8
40	Hydrogen: efficient promoter for PNP/Cr(III)/MAO catalyzed ethylene tetramerization toward 1-octene. <i>Applied Petrochemical Research</i> , 2016, 6, 413-417.	1.3	8
41	Nickel-based ethylene oligomerization catalysts supported by PNSiP ligands. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2018, 193, 363-368.	0.8	8
42	A series of novel bisphosphinoamine ligands: Synthesis, characterization and application in ethylene tetramerization. <i>Science Bulletin</i> , 2010, 55, 3750-3754.	1.7	7
43	Effect of Alkylaluminum Activators on Ethylene Trimerization Based on 2,5-DMP/Cr(III)/TCE Catalyst System. <i>Chinese Journal of Chemistry</i> , 2011, 29, 1149-1153.	2.6	7
44	Progress in the research of radical anion ligands and their complexes. <i>Science Bulletin</i> , 2014, 59, 2936-2944.	1.7	7
45	New ABA tri-block copolymers of poly(tert-butylacrylate)-b-poly(2,2,2-trifluoroethyl) spheres, and fibers. <i>European Polymer Journal</i> , 2019, 113, 52-59.	2.6	7
46	Chromium catalysts based on PNP(NR ₂) ₂ ligands for selective ethylene oligomerization. <i>Applied Organometallic Chemistry</i> , 2022, 36, e6454.	1.7	7
47	Ce-doped mesoporous alumina supported Fe-based catalyst with high activity for oxidative dehydrogenation of 1-butene using CO ₂ as soft oxidant. <i>Journal of Porous Materials</i> , 2019, 26, 1269-1277.	1.3	7
48	Silane-bridged diphosphine ligand for palladium-catalyzed ethylene oligomerization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4014.	1.7	6
49	Electrospun Ribbon-Like Microfiber Films of a Novel Guanidine-Based ABA Triblock Copolymer: Fabrication, Antibacterial Activity, and Cytotoxicity. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900138.	1.1	6
50	Rationalizing the catalytic performance of Cr(III) complexes stabilized with alkylphosphanyl PNP ligands for selective ethylene tri-/tetramerization: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2022, 141, 1.	0.5	6
51	Synthesis of poly(ethylene-co-vinyl alcohol)-g-polystyrene graft copolymer and their applications for ordered porous film and compatibilizer. <i>Journal of Polymer Science Part A</i> , 2016, 54, 516-524.	2.5	5
52	Copolymerization of ethylene and propylene catalyzed by novel magnesium chloride supported, vanadium-based catalysts. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2625-2629.	1.3	4
53	High activity and good hydrogen response silica-supported Ziegler-Natta catalyst for ethylene polymerization. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 561-567.	2.0	4
54	Constructing Biopolymer-Inorganic Nanocomposite through a Biomimetic Mineralization Process for Enzyme Immobilization. <i>Materials</i> , 2015, 8, 6004-6017.	1.3	4

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55	Mixed aluminoxanes: efficient cocatalysts for bisphosphineamine/Cr(III) catalyzed ethylene tetramerization toward 1-octene. <i>Applied Petrochemical Research</i> , 2015, 5, 143-149.	1.3	4
56	Biphasic trimerization of ethylene with diphosphinoamine/chromium(III)/methylaluminoxane immobilized in organochloroaluminate ionic liquid. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 113, 159-167.	0.8	3
57	Catalytic behavior tuning via structural modifications of silylated diphosphine Ni(II) complexes for ethylene selective dimerization. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5722.	1.7	3
58	Preparation of MgCl ₂ -Supported Ziegler-Natta Catalysts via New Surfactants Emulsion for Propylene Polymerization. <i>Catalysts</i> , 2021, 11, 601.	1.6	3
59	Carbon material-supported Fe ₇ C ₃ @FeO nanoparticles: a highly efficient catalyst for carbon dioxide reduction with 1-butene. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 2101-2108.	1.9	2
60	Ethylene polymerization by novel highly active iron/acetyl(imino)pyridyl complex. <i>Science Bulletin</i> , 2006, 51, 2197-2200.	1.7	1
61	Cobalt(II)-based ethylene dimerization catalysts with silicon-bridged diphosphine ligands. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4604.	1.7	1
62	Highly Selective Conversion of 1-Butene to 1,3-Butadiene under CO ₂ Atmosphere over an Alumina-supported Iron-based Catalyst: The Role of Brønsted Acids and Lewis Acids. <i>ChemistrySelect</i> , 2020, 5, 11237-11241.	0.7	1
63	Synthesis of PE Wax by Chromium Complexes Bearing NP Ligands. <i>ChemistrySelect</i> , 2018, 3, 6468-6472.	0.7	0
64	Constructing spherical Ziegler-Natta catalyst through an emulsion process for ethylene polymerization. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
65	Performance and kinetics of silicon-bridged diphosphines/CrCl ₃ (C ₄ H ₈ O) ₃ /modified methylaluminoxane catalyzed ethylene tri-/tetramerization in a continuous stirred tank reactor. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 0, , .	0.8	0