

# Tao Jiang

## List of Publications by Citations

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63

papers

542

citations

13

h-index

19

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65

ext. papers

669

ext. citations

4.1

avg, IF

3.8

L-index

#	Paper	IF	Citations
63	Preparation of 1-octene by the selective tetramerization of ethylene. <i>Journal of Molecular Catalysis A</i> , <b>2006</b> , 259, 161-165		33
62	The effect of N-aryl bisphosphineamine ligands on the selective ethylene tetramerization. <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 279, 90-93		24
61	Chromium-Based Ethylene Tetramerization Catalysts Supported by Silicon-Bridged Diphosphine Ligands: Further Combination of High Activity and Selectivity. <i>ChemCatChem</i> , <b>2017</b> , 9, 76-79	5.2	22
60	Catalytic Systems Based on Chromium(III) Silylated-Diphosphinoamines for Selective Ethylene Tri-/Tetramerization. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10836-10845	13.1	20
59	Effect of compressed CO <sub>2</sub> on the size and stability of reverse micelles: Small-angle x-ray scattering and phase behavior study. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3329-3333	3.9	18
58	Metallocene-catalyzed oligomerizations of 1-butene and $\alpha$ -olefins: Toward synthetic lubricants. <i>European Polymer Journal</i> , <b>2014</b> , 59, 208-217	5.2	16
57	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> , <b>2017</b> , 7, 5011-5018	5.5	16
56	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> , <b>2018</b> , 10, 159-164	5.2	15
55	Performance of various aluminoxane activators in ethylene tetramerization based on PNP/Cr(III) catalyst system. <i>Catalysis Communications</i> , <b>2007</b> , 8, 1145-1148	3.2	15
54	Nickel complexes incorporating pyrazole-based ligands for ethylene dimerization to 1-butylene. <i>Journal of Organometallic Chemistry</i> , <b>2015</b> , 798, 388-392	2.3	14
53	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> , <b>2018</b> , 67, 868-873	3.3	14
52	Preparation of 1-octene by ethylene tetramerization with high selectivity. <i>Science Bulletin</i> , <b>2006</b> , 51, 521-523		14
51	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> , <b>2019</b> , 572, 71-79	5.1	14
50	Synthesis of a novel triple-site diphosphinoamine (PNP) ligand and its applications in ethylene tetramerization. <i>Science Bulletin</i> , <b>2008</b> , 53, 3511-3515	10.6	13
49	Tandem Cyclization/Hydroarylation of $\beta$ -Dienes Triggered by Scandium-Catalyzed C-H Activation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 599-604	13.1	12
48	Construction of defect-engineered three-dimensionally ordered macroporous WO <sub>3</sub> for efficient photocatalytic water oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3036-3043	13	12
47	One-Pot Preparation of Ni <sub>2</sub> P/Al <sub>2</sub> O <sub>3</sub> Catalyst for Dehydrogenation of Propane to Propylene. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10532-10536	1.8	12

46	Silane-bridged diphosphine ligands for nickel-catalyzed ethylene oligomerization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2016</b> , 119, 481-490	1.6	11
45	New synthetic strategy targeting well-defined 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> , <b>2016</b> , 6, 69828-69835	3.7	11
44	Enhancing tetralin hydrogenation activity and sulphur-tolerance of Pt/MCM-41 catalyst with Al(NO <sub>3</sub> ) <sub>3</sub> , AlCl <sub>3</sub> and Al(CH <sub>3</sub> ) <sub>3</sub> . <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 2081-2090	5.5	11
43	Study on morphology of high impact polypropylene prepared by in situ blending. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 101, 1386-1390	2.9	11
42	Preparation of Lubricant Base Stocks with High Viscosity Index through 1-Decene Oligomerization Catalyzed by Alkylaluminum Chloride Promoted by Metal Chloride. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2214-2220	4.1	11
41	Immobilizing enzymes in regular-sized gelatin microspheres through a membrane emulsification method. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6357-6369	4.3	11
40	Synthesis of novel guanidine-based ABA triblock copolymers and their antimicrobial honeycomb films. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3922-3930	4.9	11
39	Chromium catalysts supported on mesoporous silica for ethylene tetramerization: Effect of the porous structure of the supports. <i>Catalysis Communications</i> , <b>2015</b> , 60, 14-18	3.2	10
38	Synthesis of polymethylene-b-poly(vinyl acetate) block copolymer via visible light induced radical polymerization and its application. <i>RSC Advances</i> , <b>2017</b> , 7, 42484-42490	3.7	10
37	Copolymerization of ethylene and propylene catalyzed by magnesium chloride supported vanadium/titanium bimetallic Ziegler-Natta catalysts. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 475-482	3.5	10
36	Preparation of porous spherical MgCl <sub>2</sub> /SiO <sub>2</sub> complex support as precursor for catalytic propylene polymerization. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 1296-1299	2.9	10
35	Enhanced Carbon Dioxide Oxidative Dehydrogenation of 1-Butene by Iron-Doped Ordered Mesoporous Alumina. <i>ChemCatChem</i> , <b>2017</b> , 9, 4480-4483	5.2	9
34	Catalytic oxidative dehydrogenation of 1-butene to 1,3-butadiene with CO <sub>2</sub> over Fe <sub>2</sub> O <sub>3</sub> /BaAl <sub>2</sub> O <sub>3</sub> catalysts: the effect of acid or alkali modification. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2017</b> , 122, 451-462	1.6	8
33	Ethylene tetramerization with a highly active and long-lifetime trinuclear diphenylphosphinoamine/Cr(III)/MAO catalyst. <i>Science Bulletin</i> , <b>2012</b> , 57, 1510-1515		8
32	Preparation of ethylene/1-octene copolymers from ethylene stock with tandem catalytic system. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 107, 3071-3075	2.9	8
31	Chromium(III) catalysts based on tridentate silicon-bridged tris(diphenylphosphine) ligands for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , <b>2020</b> , 392, 278-286	7.3	8
30	Hydrogen: efficient promoter for PNP/Cr(III)/MAO catalyzed ethylene tetramerization toward 1-octene. <i>Applied Petrochemical Research</i> , <b>2016</b> , 6, 413-417	1.9	8
29	Ethylene oligomerization promoted by nickel-based catalysts with silicon-bridged diphosphine amine ligands. <i>Transition Metal Chemistry</i> , <b>2019</b> , 44, 125-133	2.1	8

28	Boron- and silicon-bridged bis(diphenylphosphino)-type ligands for chromium-catalyzed ethylene oligomerization. <i>Science Bulletin</i> , <b>2014</b> , 59, 2613-2617		7
27	Nickel-based ethylene oligomerization catalysts supported by PNSiP ligands. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2018</b> , 193, 363-368	1	6
26	In situ formed Cr(III) based silicon-bridged PNS systems for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , <b>2019</b> , 378, 312-319	7.3	6
25	Effect of Alkylaluminum Activators on Ethylene Trimerization Based on 2,5-DMP/Cr(III)/TCE Catalyst System. <i>Chinese Journal of Chemistry</i> , <b>2011</b> , 29, 1149-1153	4.9	6
24	A series of novel bisphosphinoamine ligands: Synthesis, characterization and application in ethylene tetramerization. <i>Science Bulletin</i> , <b>2010</b> , 55, 3750-3754		6
23	Ce-doped mesoporous alumina supported Fe-based catalyst with high activity for oxidative dehydrogenation of 1-butene using CO <sub>2</sub> as soft oxidant. <i>Journal of Porous Materials</i> , <b>2019</b> , 26, 1269-1277	4	6
22	Progress in the research of radical anion ligands and their complexes. <i>Science Bulletin</i> , <b>2014</b> , 59, 2936-2944		5
21	Mixed aluminoxanes: efficient cocatalysts for bisphosphineamine/Cr(III) catalyzed ethylene tetramerization toward 1-octene. <i>Applied Petrochemical Research</i> , <b>2015</b> , 5, 143-149	1.9	4
20	Silane-bridged diphosphine ligand for palladium-catalyzed ethylene oligomerization. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4014	3.1	4
19	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> , <b>2016</b> , 54, 516-524	2.5	4
18	Copolymerization of ethylene and propylene catalyzed by novel magnesium chloride supported, vanadium-based catalysts. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 2625-2629	2.9	4
17	Biphasic trimerization of ethylene with diphosphinoamine/chromium(III)/methylaluminoxane immobilized in organochloroaluminate ionic liquid. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2014</b> , 113, 159-167	1.6	3
16	Constructing Biopolymer-Inorganic Nanocomposite through a Biomimetic Mineralization Process for Enzyme Immobilization. <i>Materials</i> , <b>2015</b> , 8, 6004-6017	3.5	3
15	High activity and good hydrogen response silica-supported Ziegler-Natta catalyst for ethylene polymerization. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2012</b> , 30, 561-567	3.5	3
14	Ortho-C <sub>H</sub> addition of 2-substituted pyridines with alkenes and imines enabled by mono(phosphinoamido)-rare earth complexes. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6345	3.1	3
13	New ABA tri-block copolymers of poly(tert-butylacrylate)-b-poly(2,2,2-trifluoroethyl acrylate)-b-poly(tert-butylacrylate): Synthesis, self-assembly and fabrication of their porous films, spheres, and fibers. <i>European Polymer Journal</i> , <b>2019</b> , 113, 52-59	5.2	3
12	Catalytic behavior tuning via structural modifications of silylated-diphosphine Ni(II) complexes for ethylene selective dimerization. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5722	3.1	2
11	Research progress of defect-engineered UiO-66(Zr) MOFs for photocatalytic hydrogen production. <i>Frontiers in Energy</i> , <b>2021</b> , 15, 656	2.6	2

10	Electrospun Ribbon-Like Microfiber Films of a Novel Guanidine-Based ABA Triblock Copolymer: Fabrication, Antibacterial Activity, and Cytotoxicity. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1900138	2.6	1
9	Ethylene polymerization by novel highly active iron/acetyl(imino)pyridyl complex. <i>Science Bulletin</i> , <b>2006</b> , 51, 2197-2200		1
8	Highly Selective Conversion of 1-Butene to 1,3-Butadiene under CO <sub>2</sub> Atmosphere over an Alumina-supported Iron-based Catalyst: The Role of Brønsted Acids and Lewis Acids. <i>ChemistrySelect</i> , <b>2020</b> , 5, 11237-11241	1.8	1
7	Carbon material-supported Fe <sub>7</sub> C <sub>3</sub> @FeO nanoparticles: a highly efficient catalyst for carbon dioxide reduction with 1-butene. <i>Reaction Chemistry and Engineering</i> , <b>2020</b> , 5, 2101-2108	4.9	1
6	Preparation of MgCl <sub>2</sub> -Supported Ziegler-Natta Catalysts via New Surfactants Emulsion for Propylene Polymerization. <i>Catalysts</i> , <b>2021</b> , 11, 601	4	1
5	Cobalt(II)-based ethylene dimerization catalysts with silicon-bridged diphosphine ligands. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4604	3.1	1
4	Chromium catalysts stabilized by alkylphosphanyl PNP ligands for selective ethylene tri-/tetramerization. <i>Journal of Catalysis</i> , <b>2021</b> ,	7.3	1
3	Chromium catalysts based on PNP(NR <sub>2</sub> ) <sub>2</sub> ligands for selective ethylene oligomerization. <i>Applied Organometallic Chemistry</i> , e6454	3.1	0
2	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> , <b>2022</b> , 141, 1	1.9	0
1	Synthesis of PE Wax by Chromium Complexes Bearing NP Ligands. <i>ChemistrySelect</i> , <b>2018</b> , 3, 6468-6472	1.8	