

Liu Boping

List of Publications by Year in descending order

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104
papers

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citations

331670

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106
all docs

106
docs citations

106
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Stopped-Flow Techniques in Ziegler Catalysis. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1-24.	3.9	91
2	Stereospecific Nature of Active Sites on TiCl ₄ /MgCl ₂ Ziegler-Natta Catalyst in the Presence of an Internal Electron Donor. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 395-402.	2.2	91
3	Variation in the Isospecific Active Sites of Internal Donor-Free MgCl ₂ -Supported Ziegler Catalysts: Effect of External Electron Donors. <i>Macromolecular Rapid Communications</i> , 2001, 22, 326-328.	3.9	62
4	Specific Roles of Al-Alkyl Cocatalyst in the Origin of Isospecificity of Active Sites on Donor-Free TiCl ₄ /MgCl ₂ Ziegler-Natta Catalyst. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2412-2421.	2.2	62
5	Correlation of oxidation states of surface chromium species with ethylene polymerization activity for Phillips CrO _x /SiO ₂ catalysts modified by Al-alkyl cocatalyst. <i>Journal of Molecular Catalysis A</i> , 2005, 238, 142-150.	4.8	50
6	Precise arguments on the distribution of stereospecific active sites on MgCl ₂ -supported ziegler-natta catalysts. <i>Macromolecular Symposia</i> , 2004, 213, 7-18.	0.7	43
7	Effects of Electron Donors on Active Sites Distribution of MgCl ₂ -Supported Ziegler-Natta Catalysts Investigated by Multiple Active Sites Model. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 961-966.	2.2	39
8	A Novel SiO ₂ -Supported Cr ^{IV} Bimetallic Catalyst Making Polyethylene and Ethylene/1-Hexene Copolymers with Bimodal Molecular Weight Distribution. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1753-1766.	2.2	35
9	Ethylene and 1-hexene copolymerization with CO-prereduced phillips CrO _x /SiO ₂ catalyst in the presence of Al-alkyl cocatalyst. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4632-4641.	2.3	33
10	Homogeneously Dispersed Poly(propylene)/SiO ₂ Nanocomposites with Unprecedented Transparency. <i>Macromolecular Rapid Communications</i> , 2006, 27, 910-913.	3.9	33
11	Kinetic evaluation of various isospecific active sites on MgCl ₂ -supported Ziegler catalysts. <i>Macromolecular Symposia</i> , 2003, 193, 71-80.	0.7	29
12	A Triphenylsiloxy Complex of Chromium(II) as a Switchable Catalyst for Ethylene Polymerization and Nonselective Oligomerization. <i>Organometallics</i> , 2011, 30, 2144-2148.	2.3	29
13	Active Site Transformation During the Induction Period of Ethylene Polymerization over the Phillips CrO _x /SiO ₂ Catalyst. <i>ChemCatChem</i> , 2012, 4, 872-881.	3.7	29
14	CFD prediction of scale-up effect on the hydrodynamic behaviors of a pilot-plant fluidized bed reactor and preliminary exploration of its application for non-pelletizing polyethylene process. <i>Powder Technology</i> , 2015, 278, 94-110.	4.2	29
15	Dependence of tacticity distribution in thermal oxidative degradation of polypropylene. <i>Polymer Bulletin</i> , 2005, 54, 311-319.	3.3	26
16	Novel SiO ₂ -Supported Chromium Oxide(Cr)/Vanadium Oxide(V) Bimetallic Catalysts for Production of Bimodal Polyethylene. <i>Macromolecular Reaction Engineering</i> , 2015, 9, 462-472.	1.5	26
17	Surface physico-chemical state of CO-prereduced Phillips CrO _x /SiO ₂ catalyst and unique polymerization behavior in the presence of Al-alkyl cocatalyst. <i>Macromolecular Symposia</i> , 2004, 213, 37-46.	0.7	25
18	Effects of Branch Content and Branch Length on Polyethylene Crystallization: Molecular Dynamics Simulation. <i>Macromolecular Theory and Simulations</i> , 2016, 25, 303-311.	1.4	25

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19	Novel SiO ₂ -Supported Silyl-Chromate(Cr)/Imido-Vanadium(V) Bimetallic Catalysts Producing Polyethylene and Ethylene/1-Hexene Copolymers with Bimodal Molecular Weight Distribution. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1434-1445.	2.2	24
20	Estimation of Apparent Kinetic Constants of Individual Site Types for the Polymerization of Ethylene and 1-Olefins with Ziegler-Natta Catalysts. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 551-566.	1.5	24
21	Analysis of Ethylene/1-Olefin Copolymers Made with Ziegler-Natta Catalysts by Deconvolution of Molecular Weight and Average Short Chain Branching Distributions. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 206-214.	1.5	22
22	Effects of Hydrogen for Different Stereospecific Active Sites on Ultra Low TiCl ₃ Loading Supported Catalyst. <i>Macromolecular Reaction Engineering</i> , 2007, 1, 160-164.	1.5	21
23	Copolymerization of ethylene and cyclopentene with the Phillips CrO _x /SiO ₂ catalyst in the presence of an aluminum alkyl cocatalyst. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1869-1877.	2.6	21
24	Cationic Pyridylamido Adsorbate on Brønsted Acidic Sulfated Zirconia: A Molecular Supported Organohafnium Catalyst for Olefin Homo- and Co-Polymerization. <i>ACS Catalysis</i> , 2018, 8, 4893-4901.	11.2	21
25	Molecular Mechanism of Small-Molecule Inhibitors in Blocking the PD-1/PD-L1 Pathway through PD-L1 Dimerization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4766.	4.1	21
26	Active sites deterioration of MgCl ₂ -supported catalyst induced by the electron donor extraction by alkylaluminum. <i>Polymer International</i> , 2002, 51, 781-784.	3.1	20
27	A novel SiO ₂ -supported inorganic and organic hybrid chromium-based catalyst for ethylene polymerization. <i>Journal of Molecular Catalysis A</i> , 2012, 358, 10-22.	4.8	20
28	Mechanistic Aspects of Acrylic Acid Formation from CO ₂ -Ethylene Coupling over Palladium- and Nickel-based Catalysts. <i>ChemCatChem</i> , 2018, 10, 1420-1430.	3.7	20
29	Effects of Bisphenol A on reproductive toxicity and gut microbiota dysbiosis in male rats. <i>Ecotoxicology and Environmental Safety</i> , 2022, 239, 113623.	6.0	20
30	High-resolution XPS and DFT investigations into Al-modified Phillips CrO _x /SiO ₂ catalysts. <i>Journal of Molecular Catalysis A</i> , 2015, 401, 1-12.	4.8	19
31	DFT and PIO study of the influences of Mo valance state and surface hydroxyl on supported-MoO _x catalysts for ethylene polymerization. <i>Journal of Molecular Catalysis A</i> , 2010, 321, 50-60.	4.8	18
32	Ethylene/1-Hexene Copolymerization with A Novel SiO ₂ -Supported Inorganic and Organic Hybrid Chromium-based Catalyst. <i>Macromolecular Reaction Engineering</i> , 2013, 7, 254-266.	1.5	17
33	Effect of short-chain branching on the tie chains and dynamics of bimodal polyethylene: Molecular dynamics simulation. <i>European Polymer Journal</i> , 2018, 103, 312-321.	5.4	17
34	What Triggered the Switching from Ethylene-Selective Trimerization into Tetramerization over the Cr/(2,2-Dipicolylamine) Catalysts?. <i>ACS Catalysis</i> , 2019, 9, 10519-10527.	11.2	17
35	A Novel (SiO ₂ /MgO/MgCl ₂) ₂ -TiCl ₃ Ziegler-Natta Catalyst for Ethylene and Ethylene/1-Hexene Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1472-1482.	2.2	16
36	Synergistic toughening of polypropylene with ultra-high molecular weight polyethylene and elastomer-olefin block copolymers. <i>RSC Advances</i> , 2019, 9, 23994-24002.	3.6	16

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37	Improvement of the photostability of isotactic polypropylene by the incorporation of ethylene. <i>Journal of Applied Polymer Science</i> , 2002, 86, 1863-1867.	2.6	15
38	Experimental and Computational Approaches on the Isospecific Role of Monoester- ϵ -Type Internal Electron Donor for $\text{TiCl}_4/\text{MgCl}_2$ Ziegler-Natta Catalysts. <i>Macromolecular Symposia</i> , 2007, 260, 42-48.	0.7	14
39	Experimental and theoretical studies on CO_2 and propylene oxide (PO) copolymerization catalyzed by ZnEt_2 -glycerine- $\text{Y}(\text{C}(\text{Cl})_3\text{COO})_3$ ternary catalyst. <i>Journal of Organometallic Chemistry</i> , 2014, 753, 63-71.	1.8	14
40	Molecular dynamics study of the isothermal crystallization mechanism of polyethylene chain: the combined effects of chain length and temperature. <i>Journal of Molecular Modeling</i> , 2016, 22, 67.	1.8	14
41	The First Vanadium-Oxide-Based UHMWPE Catalyst Supported on Chemically Modified Silica Gel. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600443.	2.2	14
42	Mechanistic Understanding on the Role of Cu Species over the $\text{CuO}_x/\text{TiO}_2$ Catalyst for CO_2 Photoreduction. <i>ACS Omega</i> , 2020, 5, 18050-18063.	3.5	14
43	Mechanistic Study on Effect of Electron Donors in Propylene Polymerization Using the Ziegler-Natta Catalyst. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8533-8542.	3.1	14
44	Effect of Alkyl Aluminums on Ethylene Polymerization Reactions with a Cr/V Bimetallic Catalyst. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1700059.	1.5	13
45	Dominant Effects of Short-Chain Branching on the Initial Stage of Nucleation and Formation of Tie Chains for Bimodal Polyethylene as Revealed by Molecular Dynamics Simulation. <i>Polymers</i> , 2019, 11, 1840.	4.5	13
46	Kinetic investigation of propene polymerization with stopped-flow method. <i>Macromolecular Symposia</i> , 2001, 165, 3-10.	0.7	12
47	Structural Interpretation of Eyring Activation Parameters for Tensile Yielding Behavior of Isotactic Polypropylene Solids. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 1196-1210.	1.0	12
48	Vanadium Modification Effects on the $(\text{SiO}_2/\text{MgO}/\text{MgCl}_2)/\text{TiCl}_x$ Ziegler-Natta Polyethylene Catalyst. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 246-260.	1.5	12
49	Molecular Mechanism of Food-Derived Polyphenols on PD-L1 Dimerization: A Molecular Dynamics Simulation Study. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10924.	4.1	12
50	Switching from ethylene polymerization to nonselective oligomerization over a homogeneous model catalyst: A triphenylsiloxy complex of chromium(VI). <i>Journal of Organometallic Chemistry</i> , 2012, 699, 48-55.	1.8	11
51	Insight into the reaction mechanisms between CO_2 and epoxides over Zn(II) phenoxide catalytic system - A DFT study. <i>Journal of Organometallic Chemistry</i> , 2015, 775, 67-75.	1.8	11
52	Hierarchical structure manipulation of UHMWPE/HDPE fibers through in-reactor blending with Cr/V bimetallic catalysts. <i>Composites Science and Technology</i> , 2019, 175, 46-54.	7.8	11
53	Local thermal degradation behavior of heterophasic polypropylene copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1831-1835.	2.6	10
54	Short Chain Branches Distribution Characterization of Ethylene/1-Hexene Copolymers by Using $\text{TREF}^{13}\text{C-NMR}$ and $\text{TREF}^{13}\text{C-SC}$ Methods. <i>Macromolecular Symposia</i> , 2012, 312, 63-71.	0.7	10

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55	2D-QSPR/DFT studies of aryl-substituted PNP-Cr-based catalyst systems for highly selective ethylene oligomerization. <i>Journal of Molecular Modeling</i> , 2014, 20, 2129.	1.8	9
56	Effect of Fluoride Modification on the Phillips Cr/SiO ₂ Catalyst for Ethylene Polymerization. <i>ChemCatChem</i> , 2017, 9, 3364-3373.	3.7	9
57	Peculiarities of Ethylene Polymerization Kinetics with an Imido-Vanadium/Silyl-Chromate Bimetallic Catalyst: Effect of Polymerization Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6164-6175.	3.7	9
58	Plausible guard effect on the active sites of heterogeneous Ziegler-Natta catalyst by coordinating monomers and growing polymer chains in the initial stage of propene polymerization. <i>Polymer International</i> , 2004, 53, 723-727.	3.1	8
59	One pot synthesis of bimodal UHMWPE/HDPE in reactor blends with Cr/V bimetallic catalysts. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3404-3412.	2.3	8
60	Insights into the Base-Assisted Acrylate Formation from CO ₂ /C ₂ H ₄ Coupling by Pd and Ni catalyst: A DFT Mechanistic Study. <i>ChemCatChem</i> , 2018, 10, 5669-5678.	3.7	8
61	Molecular dynamics simulation of shish-kebab crystallization of polyethylene: Unraveling the effects of molecular weight distribution. <i>Journal of Chemical Physics</i> , 2019, 150, 184114.	3.0	8
62	Novel SiO ₂ Supported Chromium Oxide/Chromocene Dual Site Catalysts for Synthesis of Bimodal UHMWPE/HDPE in Reactor Alloys. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900503.	2.2	8
63	Copolyesters of ϵ -caprolactone and <i>l</i> -lactide catalyzed by a tetrabutylammonium phthalimide- <i>N</i> -oxyl organocatalyst. <i>RSC Advances</i> , 2021, 11, 19021-19028.	3.6	8
64	Unravelling the Role of Al-alkyl Cocatalyst for the VO _x /SiO ₂ Ethylene Polymerization Catalyst: Diethylaluminum Chloride Vs. Triethylaluminum. <i>ChemCatChem</i> , 2021, 13, 2278-2292.	3.7	8
65	Understanding the Role of Sulfonyl Amine Donors in Propylene Polymerization Using MgCl ₂ -Supported Ziegler-Natta Catalyst. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8655-8666.	3.1	8
66	Effects of Various Preparation and Polymerization Procedures on the Isospecific Nature of TiCl ₃ -Based Polypropylene Catalysts. <i>Polymer Bulletin</i> , 2005, 54, 225-236.	3.3	7
67	Supporting mechanism of non-toxic chromium (III) acetate on silica for preparation of Phillips ethylene polymerization catalysts. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 660-665.	1.5	7
68	Improvement of Mechanical Properties and Ultraviolet Resistance of Polyethylene Pipe Materials Using High Density Polyethylene Matrix Grafted Carbon Black. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 298-312.	1.0	7
69	Improvement of interfacial interaction, dispersion, and properties of chlorosulfonated polyethylene/sio ₂ nanocomposites using CSPE-g-Sio ₂ nanoparticles synthesized under ultrasonics. <i>Polymer Composites</i> , 2012, 33, 940-950.	4.6	7
70	Effects of Addition of Ultra-High Molecular Weight Polyethylene on Tie-Molecule and Crystallization Behavior of Unimodal PE-100 Pipe Materials. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 1007-1021.	1.0	7
71	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part III Particle Composition Distribution Effects. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1800051.	1.5	7
72	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part IV Intraparticle Transfer Resistance Effects. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1800054.	1.5	7

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73	Molecular dynamics study of polyethylene chain non-isothermal crystallisation: effects of chain length and branch structure. <i>Molecular Simulation</i> , 2019, 45, 967-974.	2.0	7
74	New strategies for synthesis of amino- ϵ -functionalized poly(propylene carbonate) over SalenCo ^(III) /Cl catalyst. <i>Journal of Polymer Science</i> , 2020, 58, 1325-1337.	3.8	7
75	Efficient cycloaddition of CO ₂ and epoxides to cyclic carbonates using salen-based covalent organic framework as a heterogeneous catalyst. <i>Journal of Porous Materials</i> , 2022, 29, 1253-1263.	2.6	7
76	Stepwise polymerization of propylene and ethylene with Cr(acetylacetonate) ₃ /MgCl ₂ -ethylbenzoate/diethylaluminium chloride catalyst system. <i>Polymer International</i> , 2003, 52, 29-34.	3.1	6
77	Influence of primary structure on thermal oxidative degradation of polypropylene impact copolymer. <i>Polymer Bulletin</i> , 2005, 55, 141-147.	3.3	6
78	High temperature polymerization of propylene catalyzed by MgCl ₂ -supported Ziegler-Natta catalyst with various cocatalysts. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1978-1982.	2.6	6
79	CRYSTAF Analysis of Polyethylene Synthesized with Phillips Catalyst. <i>Macromolecular Symposia</i> , 2009, 285, 74-80.	0.7	6
80	Ethylene Polymerization over MgCl ₂ /SiO ₂ -Bi ₂ O ₃ -Supported Ziegler-Natta Hybrid Titanium/Vanadium Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700027.	2.2	6
81	New Approaches for the Development of Highly Stable Polypropylene. <i>Macromolecular Symposia</i> , 2004, 214, 299-306.	0.7	5
82	Effects of Alkyl Aluminum on SiO ₂ -Supported Silyl-Chromate(Cr)/Imido-Vanadium(V) Bimetallic Catalysts for Producing Bimodal Polyethylene. <i>Macromolecular Reaction Engineering</i> , 2017, 11, 1700006.	1.5	5
83	Remarkable Promotion Effect of Sulfation over the SiO ₂ -Supported Vanadium-Oxide-Based Catalysts for UHMWPE. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700236.	2.2	5
84	Reinforcing mechanism of a novel hydrophilic nano-carbon black in natural rubber latex. <i>Journal of Macromolecular Science - Physics</i> , 2017, 56, 762-774.	1.0	5
85	Computational Insights into the Multisite Nature of the Phillips CrO _x /SiO ₂ Catalyst for Ethylene Polymerization: The Perspective of Chromasiloxane Ring Size and F Modification. <i>ACS Catalysis</i> , 2022, 12, 3589-3603.	11.2	5
86	Plausible Mechanism for the Formation and Transformation of Active Sites on Novel Phillips Type Catalyst with New Organo-siloxane Ligand. <i>Studies in Surface Science and Catalysis</i> , 2006, 161, 225-228.	1.5	4
87	Effect of Al-alkyl cocatalyst on ethylene polymerization behavior using silyl chromate (SC)/SiO ₂ catalyst. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 539-546.	1.5	4
88	Optimization of the Preparation Temperature for the Novel (SiO ₂ /MgO/MgCl ₂) _n ...TiCl _x Ziegler-Natta Polyethylene Catalyst. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 567-576.	1.5	4
89	Toward the Optimization of a Cr-V Bimetallic Catalyst for Producing Bimodal Polyethylene: Effect of Vanadium Content and Calcination Temperature. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800021.	2.2	4
90	Novel SiO ₂ -Supported Chromocene and Vanadium Bimetallic Catalysts Producing Bimodal Polyethylene. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000067.	2.2	4

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91	Why could the CrO _x /SiO ₂ and VO _x /SiO ₂ catalysts show so different behaviors in ethylene polymerization? A theoretical approach. <i>Molecular Catalysis</i> , 2020, 493, 111090.	2.0	4
92	CrV Bimetallic Phillips Catalyst Prepared by Citric Acid-Assisted Impregnation on Ethylene Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000010.	2.2	4
93	A Novel SiO ₂ -Supported Fluorine Modified Chromium-Vanadium Bimetallic Catalyst for Ethylene Polymerization and Ethylene/1-Hexene Copolymerization. <i>Macromolecular Reaction Engineering</i> , 2017, 11, 1600055.	1.5	3
94	Effects of different ultrahigh molecular weight polyethylene contents on the formation and evolution of hierarchical crystal structure of high-density polyethylene/ultrahigh molecular weight polyethylene blend fibers. <i>Journal of Polymer Science</i> , 2020, 58, 2278-2291.	3.8	3
95	Evaluation and Control of the Molar Mass Bimodality and Properties of Polyethylene from Novel Chromocene-Based Dual Sites Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000434.	2.2	3
96	Ligand-Induced Product Switching between 4-Methyl-1-pentene and 2-Methyl-1-pentene in Bis(imino)pyridine/V(III)-Catalyzed Propylene Dimerization: Cossee-Arman Versus Metallacycle Mechanism. <i>Organometallics</i> , 2021, 40, 1682-1691.	2.3	3
97	Effects of Silica Particles on the Transparency of Polypropylene Based Nanocomposites. <i>Studies in Surface Science and Catalysis</i> , 2006, 161, 237-240.	1.5	2
98	A Complexed Initiating System AlCl ₃ ·Phenetole/TiCl ₄ ·H ₂ O with Dominant Synergistic Effect for Efficient Synthesis of High Molecular Weight Polyisobutylene. <i>Polymers</i> , 2019, 11, 2121.	4.5	2
99	Study of Silica-Supported Chromocene Catalysts for Ethylene Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000181.	2.2	2
100	Mechanistic Studies of Reduction and Initiation over the Vanadium-Oxide Polyethylene Catalyst. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2393-2402.	3.1	2
101	Gas phase ethylene polymerization over SiO ₂ -supported organosilyl chromate UCC S-2 catalyst using a high-speed stirred-autoclave reactor. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 89-95.	4.4	1
102	Mechanistic study of vanadium-modified and sulfation-modified Phillips catalyst. <i>Molecular Catalysis</i> , 2021, 513, 111777.	2.0	1
103	Morphology and Mechanical Properties of Quenched Polypropylene/SiO ₂ Nanocomposite Films. <i>Seikei-Kakou</i> , 2004, 16, 617-622.	0.0	1
104	Kinetics and Mechanism Comparison between Cr/Ti-Based Bimetallic and Ti-Based Monometallic Catalysts for Ethylene Polymerization. <i>Macromolecular Reaction Engineering</i> , 2021, 15, 2000041.	1.5	0