

# Xing-Gui Zhou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4663125/publications.pdf>

Version: 2024-02-01

353  
papers

11,764  
citations

29994

54  
h-index

51492

86  
g-index

356  
all docs

356  
docs citations

356  
times ranked

10375  
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT studies of dry reforming of methane on Ni catalyst. <i>Catalysis Today</i> , 2009, 148, 260-267.	2.2	320
2	Mechanistic Insight into Size-Dependent Activity and Durability in Pt/CNT Catalyzed Hydrolytic Dehydrogenation of Ammonia Borane. <i>Journal of the American Chemical Society</i> , 2014, 136, 16736-16739.	6.6	273
3	First-Principles Calculations of Propane Dehydrogenation over PtSn Catalysts. <i>ACS Catalysis</i> , 2012, 2, 1247-1258.	5.5	235
4	<i>In Situ</i> Formation of Cobalt Oxide Nanocubanes as Efficient Oxygen Evolution Catalysts. <i>Journal of the American Chemical Society</i> , 2015, 137, 4223-4229.	6.6	212
5	Bi <sub>2</sub> S <sub>3</sub> nanostructures: A new photocatalyst. <i>Nano Research</i> , 2010, 3, 379-386.	5.8	209
6	Unique reactivity in Pt/CNT catalyzed hydrolytic dehydrogenation of ammonia borane. <i>Chemical Communications</i> , 2014, 50, 2142.	2.2	207
7	Selective Hydrogenation of Acetylene over Pd-In/Al <sub>2</sub> O <sub>3</sub> Catalyst: Promotional Effect of Indium and Composition-Dependent Performance. <i>ACS Catalysis</i> , 2017, 7, 7835-7846.	5.5	194
8	Size-Dependent Reaction Mechanism and Kinetics for Propane Dehydrogenation over Pt Catalysts. <i>ACS Catalysis</i> , 2015, 5, 6310-6319.	5.5	189
9	DFT study of propane dehydrogenation on Pt catalyst: effects of step sites. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3257.	1.3	173
10	Density Functional Theory-Assisted Microkinetic Analysis of Methane Dry Reforming on Ni Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 5901-5913.	1.8	158
11	Palladium Nanoparticles Confined in the Cages of MIL-101: An Efficient Catalyst for the One-Pot Indole Synthesis in Water. <i>ACS Catalysis</i> , 2011, 1, 1604-1612.	5.5	151
12	Size Dependence of Pt Catalysts for Propane Dehydrogenation: from Atomically Dispersed to Nanoparticles. <i>ACS Catalysis</i> , 2020, 10, 12932-12942.	5.5	144
13	The promoting role of Ag in Ni-CeO <sub>2</sub> catalyzed CH <sub>4</sub> -CO <sub>2</sub> dry reforming reaction. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 43-56.	10.8	140
14	Tuning the size and shape of Fe nanoparticles on carbon nanofibers for catalytic ammonia decomposition. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 189-196.	10.8	136
15	Coke Formation on Pt-Sn/Al <sub>2</sub> O <sub>3</sub> Catalyst in Propane Dehydrogenation: Coke Characterization and Kinetic Study. <i>Topics in Catalysis</i> , 2011, 54, 888-896.	1.3	132
16	Insights into H <sub>2</sub> agg Iron-Carbide-Catalyzed Fischer-Tropsch Synthesis: Suppression of CH <sub>4</sub> Formation and Enhancement of C-C Coupling on ħ-Fe <sub>5</sub> C <sub>2</sub> (510). <i>ACS Catalysis</i> , 2015, 5, 2203-2208.	5.5	122
17	Dry reforming of methane on Ni-Fe-MgO catalysts: Influence of Fe on carbon-resistant property and kinetics. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118497.	10.8	122
18	Simultaneously Enhanced Stability and Selectivity for Propene Epoxidation with H <sub>2</sub> and O <sub>2</sub> on Au Catalysts Supported on Nano-Crystalline Mesoporous TS-1. <i>ACS Catalysis</i> , 2017, 7, 2668-2675.	5.5	120

#	ARTICLE	IF	CITATIONS
19	Ammonia decomposition on Fe(1 1 0), Co(1 1 1) and Ni(1 1 1) surfaces: A density functional theory study. <i>Journal of Molecular Catalysis A</i> , 2012, 357, 81-86.	4.8	114
20	Adsorption Site Regulation to Guide Atomic Design of Ni-Ga Catalysts for Acetylene Semi-Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11647-11652.	7.2	111
21	Coke Formation on Pt-Sn/Al <sub>2</sub> O <sub>3</sub> Catalyst for Propane Dehydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 8647-8654.	1.8	106
22	CO Activation Pathways of Fischer-Tropsch Synthesis on $\gamma$ -Fe <sub>5</sub> C <sub>2</sub> (510): Direct versus Hydrogen-Assisted CO Dissociation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10170-10176.	1.5	104
23	Carbon nanofiber-supported palladium nanoparticles as potential recyclable catalysts for the Heck reaction. <i>Applied Catalysis A: General</i> , 2009, 352, 243-250.	2.2	98
24	Carbon dioxide reforming of methane over promoted NiMg <sub>1-x</sub> O (111) platelet catalyst derived from solvothermal synthesis. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 177-190.	10.8	94
25	Enhanced Catalytic Performance for Propene Epoxidation with H <sub>2</sub> and O <sub>2</sub> over Bimetallic Au-Ag/Uncalcined Titanium Silicate-1 Catalysts. <i>ACS Catalysis</i> , 2018, 8, 7799-7808.	5.5	94
26	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. <i>Carbon</i> , 2019, 153, 73-80.	5.4	93
27	Au nanoparticles deposited on the external surfaces of TS-1: Enhanced stability and activity for direct propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 396-401.	10.8	91
28	Kinetics of propane dehydrogenation over Pt-Sn/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , 2011, 398, 18-26.	2.2	90
29	Reaction mechanism and kinetics for hydrolytic dehydrogenation of ammonia borane on a Pt/CNT catalyst. <i>AIChE Journal</i> , 2017, 63, 60-65.	1.8	90
30	Facile Synthesis of Highly Luminescent Mn-Doped ZnS Nanocrystals. <i>Inorganic Chemistry</i> , 2011, 50, 10432-10438.	1.9	89
31	Hierarchical Silicoaluminophosphate Catalysts with Enhanced Hydroisomerization Selectivity by Directing the Orientated Assembly of Premanufactured Building Blocks. <i>ACS Catalysis</i> , 2017, 7, 5887-5902.	5.5	87
32	Insights into size-dependent activity and active sites of Au nanoparticles supported on TS-1 for propene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Journal of Catalysis</i> , 2014, 317, 99-104.	3.1	85
33	Effect of carbon nanofiber microstructure on oxygen reduction activity of supported palladium electrocatalyst. <i>Electrochemistry Communications</i> , 2007, 9, 895-900.	2.3	81
34	MCM-41 supported Co Mo bimetallic catalysts for enhanced hydrogen production by ammonia decomposition. <i>Chemical Engineering Journal</i> , 2012, 207-208, 103-108.	6.6	81
35	A single source method to generate Ru-Ni-MgO catalysts for methane dry reforming and the kinetic effect of Ru on carbon deposition and gasification. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 143-159.	10.8	79
36	Carbon mediated catalysis: A review on oxidative dehydrogenation. <i>Chinese Journal of Catalysis</i> , 2014, 35, 824-841.	6.9	78

#	ARTICLE	IF	CITATIONS
37	Density functional study of the chemisorption of C1, C2 and C3 intermediates in propane dissociation on Pt(111). <i>Journal of Molecular Catalysis A</i> , 2010, 321, 42-49.	4.8	77
38	One-Pot Noninjection Synthesis of Cu-Doped Zn <sub>x</sub> Cd <sub>1-x</sub> S Nanocrystals with Emission Color Tunable over Entire Visible Spectrum. <i>Inorganic Chemistry</i> , 2012, 51, 3579-3587.	1.9	76
39	Effects of zeolite particle size and internal grain boundaries on Pt/Beta catalyzed isomerization of n-pentane. <i>Journal of Catalysis</i> , 2018, 360, 152-159.	3.1	76
40	Mechanistic and kinetic insights into the Pt-Ru synergy during hydrogen generation from ammonia borane over PtRu/CNT nanocatalysts. <i>Journal of Catalysis</i> , 2017, 356, 186-196.	3.1	73
41	Ir-Re alloy as a highly active catalyst for the hydrogenolysis of glycerol to 1,3-propanediol. <i>Catalysis Science and Technology</i> , 2015, 5, 1540-1547.	2.1	71
42	Charge-Tuned CO Activation over a $\gamma$ -Fe <sub>5</sub> C <sub>2</sub> Fischer-Tropsch Catalyst. <i>ACS Catalysis</i> , 2018, 8, 2709-2714.	5.5	70
43	Towards an efficient CoMo $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst using metal amine metallate as an active phase precursor: Enhanced hydrogen production by ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12490-12498.	3.8	69
44	Hierarchical structured $\gamma$ -Al <sub>2</sub> O <sub>3</sub> supported S-promoted Fe catalysts for direct conversion of syngas to lower olefins. <i>Chemical Communications</i> , 2015, 51, 8853-8856.	2.2	69
45	Performance-Indicator-Oriented Concurrent Subspace Process Monitoring Method. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 5535-5545.	5.2	69
46	Tuning the composition of metastable Co Ni Mg <sub>100x</sub> (OH)(OCH <sub>3</sub> ) nanoplates for optimizing robust methane dry reforming catalyst. <i>Journal of Catalysis</i> , 2015, 330, 106-119.	3.1	67
47	Origin of synergistic effect over Ni-based bimetallic surfaces: A density functional theory study. <i>Journal of Chemical Physics</i> , 2012, 137, 014703.	1.2	64
48	Au/uncalcined TS-1 catalysts for direct propene epoxidation with H <sub>2</sub> and O <sub>2</sub> : Effects of Si/Ti molar ratio and Au loading. <i>Chemical Engineering Journal</i> , 2015, 278, 234-239.	6.6	64
49	First-principles calculations of ammonia decomposition on Ni(110) surface. <i>Surface Science</i> , 2012, 606, 549-553.	0.8	57
50	Carbon Nanotubes as Support in the Platinum-Catalyzed Hydrolytic Dehydrogenation of Ammonia Borane. <i>ChemSusChem</i> , 2015, 8, 2927-2931.	3.6	57
51	Modified carbon nanotubes by KMnO <sub>4</sub> supported iron Fischer-Tropsch catalyst for the direct conversion of syngas to lower olefins. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4560-4567.	5.2	57
52	Iron-based Fischer-Tropsch synthesis of lower olefins: The nature of $\gamma$ -Fe <sub>5</sub> C <sub>2</sub> catalyst and why and how to introduce promoters. <i>Journal of Energy Chemistry</i> , 2016, 25, 911-916.	7.1	57
53	Structure sensitivity of ammonia decomposition over Ni catalysts: A computational and experimental study. <i>Fuel Processing Technology</i> , 2013, 108, 112-117.	3.7	56
54	Controlling and Formation Mechanism of Oxygen-Containing Groups on Graphite Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 253-258.	1.8	56

#	ARTICLE	IF	CITATIONS
55	Fabrication of K-promoted iron/carbon nanotubes composite catalysts for the Fischer-Tropsch synthesis of lower olefins. <i>Journal of Energy Chemistry</i> , 2016, 25, 311-317.	7.1	55
56	Controlling Selectivity in Unsaturated Aldehyde Hydrogenation Using Single-Site Alloy Catalysts. <i>ACS Catalysis</i> , 2019, 9, 9150-9157.	5.5	55
57	Effect of steam addition on the structure and activity of Pt-Sn catalysts in propane dehydrogenation. <i>Chemical Engineering Journal</i> , 2015, 278, 240-248.	6.6	54
58	Active sites engineering of Pt/CNT oxygen reduction catalysts by atomic layer deposition. <i>Journal of Energy Chemistry</i> , 2020, 45, 59-66.	7.1	54
59	Experimental investigation of the flow distribution of a 2-dimensional constructal distributor. <i>Experimental Thermal and Fluid Science</i> , 2008, 33, 77-83.	1.5	53
60	Balancing the Micro-Mesoporosity for Activity Maximization of N-Doped Carbonaceous Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2019, 12, 1017-1025.	3.6	53
61	Kinetic Study of the Hydrogenation of Unsaturated Aldehydes Promoted by CuPt/SBA-15 Single-Atom Alloy (SAA) Catalysts. <i>ACS Catalysis</i> , 2020, 10, 3431-3443.	5.5	53
62	Experimental study of constructal distributor for flow equidistribution in a mini crossflow heat exchanger (MCHE). <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 229-236.	1.8	52
63	Effect of Ag on the control of Ni-catalyzed carbon formation: A density functional theory study. <i>Catalysis Today</i> , 2012, 186, 54-62.	2.2	52
64	Au/TS-1 catalyst prepared by deposition-precipitation method for propene epoxidation with H <sub>2</sub> /O <sub>2</sub> : Insights into the effects of slurry aging time and Si/Ti molar ratio. <i>Journal of Catalysis</i> , 2015, 325, 128-135.	3.1	51
65	Electrophoretic deposition of network-like carbon nanofibers as a palladium catalyst support for ethanol oxidation in alkaline media. <i>Carbon</i> , 2010, 48, 3323-3329.	5.4	50
66	Single-Crystal Bi <sub>2</sub> S <sub>3</sub> Nanosheets Growing via Attachment-Recrystallization of Nanorods. <i>Inorganic Chemistry</i> , 2011, 50, 7729-7734.	1.9	50
67	Carbon Nanofiber-Supported Ru Catalysts for Hydrogen Evolution by Ammonia Decomposition. <i>Chinese Journal of Catalysis</i> , 2010, 31, 979-986.	6.9	48
68	Tuning selectivity and stability in propane dehydrogenation by shaping Pt particles: A combined experimental and DFT study. <i>Journal of Molecular Catalysis A</i> , 2014, 395, 329-336.	4.8	48
69	High-Throughput Screening of Alloy Catalysts for Dry Methane Reforming. <i>ACS Catalysis</i> , 2021, 11, 8881-8894.	5.5	47
70	Catalytic hydrogenation of benzene to cyclohexene on Ru(0001) from density functional theory investigations†. <i>Catalysis Today</i> , 2011, 160, 234-241.	2.2	46
71	Understanding Co-Mo Catalyzed Ammonia Decomposition: Influence of Calcination Atmosphere and Identification of Active Phase. <i>ChemCatChem</i> , 2016, 8, 938-945.	1.8	46
72	Enhanced stability for propene epoxidation with H <sub>2</sub> and O <sub>2</sub> over wormhole-like hierarchical TS-1 supported Au nanocatalyst. <i>Chemical Engineering Journal</i> , 2019, 377, 119954.	6.6	46

#	ARTICLE	IF	CITATIONS
73	A comprehensive kinetics study on non-isothermal pyrolysis of kerogen from Green River oil shale. <i>Chemical Engineering Journal</i> , 2019, 377, 120275.	6.6	46
74	Facile Synthesis of Monodisperse CdS Nanocrystals via Microreaction. <i>Nanoscale Research Letters</i> , 2010, 5, 130-137.	3.1	45
75	Manipulating Gold Spatial Location on Titanium Silicalite-1 To Enhance the Catalytic Performance for Direct Propene Epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>ACS Catalysis</i> , 2018, 8, 10649-10657.	5.5	44
76	Boosting HER Performance of Pt-Based Catalysts Immobilized on Functionalized Vulcan Carbon by Atomic Layer Deposition. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	44
77	Beyond the Reverse Horiuti–Polanyi Mechanism in Propane Dehydrogenation over Pt Catalysts. <i>ACS Catalysis</i> , 2020, 10, 14887-14902.	5.5	44
78	Microstructure effect of carbon nanofiber on electrocatalytic oxygen reduction reaction. <i>Catalysis Today</i> , 2008, 131, 270-277.	2.2	43
79	Recyclable hollow Pd–Fe nanospheric catalyst for Sonogashira-, Heck-, and Ullmann-type coupling reactions of aryl halide in aqueous media. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 613-619.	5.0	43
80	Carbon nanofiber supported bimetallic PdAu nanoparticles for formic acid electrooxidation. <i>Journal of Power Sources</i> , 2012, 215, 130-134.	4.0	43
81	Pore network modeling of catalyst deactivation by coking, from single site to particle, during propane dehydrogenation. <i>AIChE Journal</i> , 2019, 65, 140-150.	1.8	43
82	Controllable synthesis of carbon nanofiber supported Pd catalyst for formic acid electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7373-7377.	3.8	42
83	Crystallization of ATO silicoaluminophosphates nanocrystalline spheroids using a phase-transfer synthetic strategy for n-heptane hydroisomerization. <i>Journal of Catalysis</i> , 2018, 364, 308-327.	3.1	42
84	Improved selectivity and coke resistance of core-shell alloy catalysts for propane dehydrogenation from first principles and microkinetic analysis. <i>Chemical Engineering Journal</i> , 2019, 377, 120049.	6.6	42
85	Unraveling the non-classic crystallization of SAPO-34 in a dry gel system towards controlling meso-structure with the assistance of growth inhibitor: Growth mechanism, hierarchical structure control and catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 74-87.	2.2	41
86	Rational Design of Single-Atom-Doped Ga <sub>2</sub> O <sub>3</sub> Catalysts for Propane Dehydrogenation: Breaking through Volcano Plot by Lewis Acid–Base Interactions. <i>ACS Catalysis</i> , 2021, 11, 5135-5147.	5.5	41
87	Modeling of fishbone-type carbon nanofibers with cone-helix structures. <i>Carbon</i> , 2012, 50, 4359-4372.	5.4	39
88	Composition of the Green Oil in Hydrogenation of Acetylene over a Commercial Pd–Ag/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Chemical Engineering and Technology</i> , 2016, 39, 865-873.	0.9	39
89	Tuning Adsorption and Catalytic Properties of $\gamma$ -Cr <sub>2</sub> O <sub>3</sub> and ZnO in Propane Dehydrogenation by Creating Oxygen Vacancy and Doping Single Pt Atom: A Comparative First-Principles Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10199-10209.	1.8	38
90	CNFs-supported Pt catalyst for hydrogen evolution from decalin. <i>Catalysis Communications</i> , 2009, 10, 815-818.	1.6	37

#	ARTICLE	IF	CITATIONS
91	Understanding the Role of Internal Diffusion Barriers in Pt/Beta Zeolite Catalyzed Isomerization of n-Heptane. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1548-1551.	7.2	37
92	A hybrid neural network-first principles model for fixed-bed reactor. <i>Chemical Engineering Science</i> , 1999, 54, 2521-2526.	1.9	36
93	Impurity Effect of L-Valine on L-Alanine Crystal Growth. <i>Crystal Growth and Design</i> , 2013, 13, 1295-1300.	1.4	36
94	Synthesis of hierarchically porous ZSM-5 zeolites by steam-assisted crystallization of dry gels silanized with short-chain organosilanes. <i>New Journal of Chemistry</i> , 2014, 38, 5808-5816.	1.4	36
95	Structural and Kinetics Understanding of Support Effects in Pd-Catalyzed Semi-Hydrogenation of Acetylene. <i>Engineering</i> , 2021, 7, 103-110.	3.2	36
96	Platinum/carbon nanofiber nanocomposite synthesized by electrophoretic deposition as electrocatalyst for oxygen reduction. <i>Journal of Power Sources</i> , 2008, 175, 211-216.	4.0	35
97	Release of interfacial thermal stress and accompanying improvement of interfacial adhesion in carbon fiber reinforced epoxy resin composites: Induced by diblock copolymers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 990-996.	3.8	35
98	Eco-friendly one-pot synthesis of highly dispersible functionalized graphene nanosheets with free amino groups. <i>Nanotechnology</i> , 2013, 24, 045609.	1.3	35
99	Size Effects of Pt Nanoparticles Supported on Carbon Nanotubes for Selective Oxidation of Glycerol in a Base-Free Condition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16309-16315.	1.8	35
100	Nonclassical from-shell-to-core growth of hierarchically organized SAPO-11 with enhanced catalytic performance in hydroisomerization of n-heptane. <i>RSC Advances</i> , 2016, 6, 32523-32533.	1.7	35
101	Au/TS-1 catalyst for propene epoxidation with H <sub>2</sub> /O <sub>2</sub> : A novel strategy to enhance stability by tuning charging sequence. <i>AIChE Journal</i> , 2016, 62, 3963-3972.	1.8	35
102	Cost-efficient core-shell TS-1/silicalite-1 supported Au catalysts: Towards enhanced stability for propene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2019, 377, 119927.	6.6	35
103	Synergistic Pt-WO <sub>3</sub> Dual Active Sites to Boost Hydrogen Production from Ammonia Borane. <i>IScience</i> , 2020, 23, 100922.	1.9	35
104	Size effects of Pt-Re bimetallic catalysts for glycerol hydrogenolysis. <i>Catalysis Today</i> , 2014, 234, 208-214.	2.2	34
105	Boosting Size-Selective Hydrogen Combustion in the Presence of Propene Using Controllable Metal Clusters Encapsulated in Zeolite. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9770-9774.	7.2	34
106	Kinetics Insights and Active Sites Discrimination of Pd-Catalyzed Selective Hydrogenation of Acetylene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 1888-1895.	1.8	34
107	Effect of External Surface Diffusion Barriers on Platinum/Beta-Catalyzed Isomerization of n-Pentane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14394-14398.	7.2	34
108	On the ensemble requirement of fully selective chemical looping methane partial oxidation over La-Fe-based perovskites. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120788.	10.8	34

#	ARTICLE	IF	CITATIONS
109	Synthesis of highly dispersed and active palladium/carbon nanofiber catalyst for formic acid electrooxidation. <i>Journal of Power Sources</i> , 2011, 196, 4609-4612.	4.0	33
110	Hollow Pt-Ni alloy nanospheres with tunable chamber structure and enhanced activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 18447.	6.7	32
111	Reaction mechanism and kinetics for Pt/CNTs catalyzed base-free oxidation of glycerol. <i>Chemical Engineering Science</i> , 2019, 203, 228-236.	1.9	32
112	Modeling of a fixed-bed reactor using the K-L expansion and neural networks. <i>Chemical Engineering Science</i> , 1996, 51, 2179-2188.	1.9	31
113	In Situ Production of Ni Catalysts at the Tips of Carbon Nanofibers and Application in Catalytic Ammonia Decomposition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1854-1858.	1.8	31
114	Structural and kinetic insights into Pt/CNT catalysts during hydrogen generation from ammonia borane. <i>Chemical Engineering Science</i> , 2018, 192, 1242-1251.	1.9	31
115	Uncalcined TS-2 immobilized Au nanoparticles as a bifunctional catalyst to boost direct propylene epoxidation with $H_2$ and $O_2$ . <i>AIChE Journal</i> , 2020, 66, e16815.	1.8	31
116	Adsorption Site Regulation to Guide Atomic Design of Ni-Ga Catalysts for Acetylene Semi-Hydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 11744-11749.	1.6	31
117	Toward $CH_4$ dissociation and C diffusion during Ni/Fe-catalyzed carbon nanofiber growth: A density functional theory study. <i>Journal of Chemical Physics</i> , 2011, 134, 134704.	1.2	30
118	Synthesis of hierarchical ZSM-5 zeolite using CTAB interacting with carboxyl-ended organosilane as a mesotemplate. <i>RSC Advances</i> , 2014, 4, 14471.	1.7	30
119	Molecular-Level Insights into the Notorious CO Poisoning of Platinum Catalyst. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	30
120	Nucleation kinetics of lovastatin in different solvents from metastable zone widths. <i>Chemical Engineering Science</i> , 2015, 133, 62-69.	1.9	29
121	Optimizing spatial pore-size and porosity distributions of adsorbents for enhanced adsorption and desorption performance. <i>Chemical Engineering Science</i> , 2015, 132, 108-117.	1.9	29
122	Thermal stability of TPA template and size-dependent selectivity of uncalcined TS-1 supported Au catalyst for propene epoxidation with $H_2$ and $O_2$ . <i>RSC Advances</i> , 2016, 6, 44050-44056.	1.7	29
123	Manipulating the mesostructure of silicoaluminophosphate SAPO-11 via tumbling-assisted, oriented assembly crystallization: a pathway to enhance selectivity in hydroisomerization. <i>Catalysis Science and Technology</i> , 2018, 8, 5044-5061.	2.1	29
124	Surface Engineering and Kinetics Behaviors of Au/Uncalcined TS-1 Catalysts for Propylene Epoxidation with $H_2$ and $O_2$ . <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17300-17307.	1.8	29
125	Insights into Hydrogen Transport Behavior on Perovskite Surfaces: Transition from the Grothuss Mechanism to the Vehicle Mechanism. <i>Langmuir</i> , 2019, 35, 9962-9969.	1.6	29
126	Propene epoxidation with $H_2$ and $O_2$ on Au/TS-1 catalyst: Cost-effective synthesis of small-sized mesoporous TS-1 and its unique performance. <i>Catalysis Today</i> , 2020, 347, 102-109.	2.2	29



#	ARTICLE	IF	CITATIONS
127	Tailoring catalytic properties of V <sub>2</sub> O <sub>3</sub> to propane dehydrogenation through single-atom doping: A DFT study. <i>Catalysis Today</i> , 2021, 368, 46-57.	2.2	29
128	Kinetics study of C <sub>2+</sub> oxygenates synthesis from syngas over Rh <sub>x</sub> Mn <sub>1-x</sub> /SiO <sub>2</sub> catalysts. <i>Chemical Engineering Science</i> , 2015, 135, 312-322.	1.9	28
129	Support effect on the bimetallic structure of Ir <sub>x</sub> Re catalysts and their performances in glycerol hydrogenolysis. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 81-88.	4.8	28
130	Hierarchical MgAl <sub>2</sub> O <sub>4</sub> supported Pt-Sn as a highly thermostable catalyst for propane dehydrogenation. <i>Catalysis Communications</i> , 2016, 84, 85-88.	1.6	28
131	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. <i>Catalysis Today</i> , 2020, 355, 319-324.	2.2	28
132	Tailoring electronic properties and kinetics behaviors of Pd/Ni-CNTs catalysts for selective hydrogenation of acetylene. <i>AIChE Journal</i> , 2020, 66, e16857.	1.8	28
133	Zeolite crystal size effects of Au/uncalcined TS-1 bifunctional catalysts on direct propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Chemical Engineering Science</i> , 2020, 227, 115907.	1.9	28
134	Carbon Nanofiber-Supported Pd Catalysts for Heck Reaction: Effects of Support Interaction. <i>Chinese Journal of Catalysis</i> , 2008, 29, 1145-1151.	6.9	27
135	Ultrasonic synthesis of nitrogen-doped carbon nanofibers as platinum catalyst support for oxygen reduction. <i>Journal of Power Sources</i> , 2011, 196, 9356-9360.	4.0	27
136	Fabricating ZSM-23 with reduced aspect ratio through ball-milling and recrystallization: Synthesis, structure and catalytic performance in N-heptane hydroisomerization. <i>Catalysis Today</i> , 2019, 329, 82-93.	2.2	27
137	Dual-function catalysis in propane dehydrogenation over Pt <sub>1</sub> Ga <sub>2</sub> O <sub>3</sub> catalyst: Insights from a microkinetic analysis. <i>AIChE Journal</i> , 2020, 66, e16232.	1.8	27
138	Support effects of Cs/Al <sub>2</sub> O <sub>3</sub> catalyzed aldol condensation of methyl acetate with formaldehyde. <i>Catalysis Today</i> , 2021, 365, 310-317.	2.2	27
139	Peroxidization of methyl ethyl ketone in a microchannel reactor. <i>Chemical Engineering Science</i> , 2007, 62, 5127-5132.	1.9	26
140	A unique method to fabricate Ni <sub>x</sub> Mg <sub>1-x</sub> O (111) nano-platelet solid solution catalyst for CH <sub>4</sub> -CO <sub>2</sub> dry reforming. <i>Catalysis Communications</i> , 2013, 34, 11-15.	1.6	26
141	A solvent evaporation route towards fabrication of hierarchically porous ZSM-11 with highly accessible mesopores. <i>RSC Advances</i> , 2015, 5, 31195-31204.	1.7	26
142	Insights into Activated Carbon-Supported Platinum Catalysts for Base-Free Oxidation of Glycerol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 420-427.	1.8	26
143	Polyoxometalates-engineered hydrogen generation rate and durability of Pt/CNT catalysts from ammonia borane. <i>Journal of Energy Chemistry</i> , 2020, 41, 142-148.	7.1	26
144	Optimizing catalyst pore network structure in the presence of deactivation by coking. <i>AIChE Journal</i> , 2019, 65, e16687.	1.8	25

#	ARTICLE	IF	CITATIONS
145	Electronic Origin of Oxygen Transport Behavior in La-Based Perovskites: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 275-290.	1.5	25
146	Heat integrated technology assisted pressure-swing distillation for the mixture of ethylene glycol and 1,2-butanediol. <i>Separation and Purification Technology</i> , 2020, 241, 116740.	3.9	25
147	Optimization of the fixed-bed reactor for ethylene epoxidation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 1098-1107.	1.8	24
148	Synthesis and characterization of titanium silicate-1 supported on carbon nanofiber. <i>Microporous and Mesoporous Materials</i> , 2008, 108, 311-317.	2.2	24
149	Kinetics-assisted discrimination of active sites in Ru catalyzed hydrolytic dehydrogenation of ammonia borane. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 316-322.	1.9	24
150	Understanding the Role of Internal Diffusion Barriers in Pt/Beta Zeolite Catalyzed Isomerization of <i>n</i> -Heptane. <i>Angewandte Chemie</i> , 2020, 132, 1564-1567.	1.6	24
151	Bi-reforming of methane with steam and CO <sub>2</sub> under pressurized conditions on a durable Ir <sub>2</sub> Ni/MgAl <sub>2</sub> O <sub>4</sub> catalyst. <i>Chemical Communications</i> , 2020, 56, 13536-13539.	2.2	24
152	Carbon nanofibers supported Ru catalyst for sorbitol hydrogenolysis to glycols: Effect of calcination. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1412-1418.	1.2	23
153	Fe particles on the tops of carbon nanofibers immobilized on structured carbon microfibers for ammonia decomposition. <i>Catalysis Today</i> , 2013, 216, 254-260.	2.2	23
154	Probing the Nature of Surface Barriers on ZSM-5 by Surface Modification. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 1333-1342.	0.4	23
155	Influence of tubular reactor structure and operating conditions on dry reforming of methane. <i>Chemical Engineering Research and Design</i> , 2018, 139, 39-51.	2.7	23
156	SbO <sub>x</sub> -promoted Pt nanoparticles supported on CNTs as catalysts for base-free oxidation of glycerol to dihydroxyacetone. <i>AIChE Journal</i> , 2018, 64, 3979-3987.	1.8	23
157	Propylene epoxidation in a microreactor with electric heating. <i>Catalysis Today</i> , 2005, 105, 544-550.	2.2	22
158	Effect of Impurity on the Lateral Crystal Growth of <i>l</i> -Alanine: A Combined Simulation and Experimental Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 14845-14849.	1.8	22
159	Probing pore blocking effects on multiphase reactions within porous catalyst particles using a discrete model. <i>AIChE Journal</i> , 2016, 62, 451-460.	1.8	22
160	Method for generating pore networks in porous particles of arbitrary shape, and its application to catalytic hydrogenation of benzene. <i>Chemical Engineering Journal</i> , 2017, 329, 56-65.	6.6	22
161	Enhanced performance of catalyst pellets for methane dry reforming by engineering pore network structure. <i>Chemical Engineering Journal</i> , 2019, 373, 1389-1396.	6.6	22
162	Active sites of Pt/CNTs nanocatalysts for aerobic base-free oxidation of glycerol. <i>Green Energy and Environment</i> , 2020, 5, 76-82.	4.7	22

#	ARTICLE	IF	CITATIONS
163	Dimensionality-dependent performance of nanostructured bismuth sulfide in photodegradation of organic dyes. <i>Materials Chemistry and Physics</i> , 2013, 138, 755-761.	2.0	21
164	Tailoring the Structure of Hierarchically Porous Zeolite Beta through Modified Orientated Attachment Growth in a Dry Gel System. <i>Chemistry - A European Journal</i> , 2014, 20, 14744-14755.	1.7	21
165	Hydrogenolysis of sorbitol to glycols over carbon nanofibers-supported ruthenium catalyst: The role of base promoter. <i>Chinese Journal of Catalysis</i> , 2014, 35, 692-702.	6.9	21
166	Effects of carbon support on microwave-assisted catalytic dehydrogenation of decalin. <i>Carbon</i> , 2014, 67, 775-783.	5.4	21
167	Insights into the effects of steam on propane dehydrogenation over a Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 3991-4000.	2.1	21
168	Recent advances in synthesis of reshaped Fe and Ni particles at the tips of carbon nanofibers and their catalytic applications. <i>Catalysis Today</i> , 2015, 249, 2-11.	2.2	21
169	Ni(OH) <sub>2</sub> nanowires/graphite foam composite as an advanced supercapacitor electrode with improved cycle performance. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12136-12145.	3.8	21
170	The tailored synthesis of nanosized SAPO-34 via time-controlled silicon release enabled by an organosilane precursor. <i>Chemical Communications</i> , 2017, 53, 6132-6135.	2.2	21
171	Tailoring of Fe/MnK-CNTs Composite Catalysts for the Fischer-Tropsch Synthesis of Lower Olefins from Syngas. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 11554-11560.	1.8	21
172	The role of H <sub>2</sub> S addition on Pt/Al <sub>2</sub> O <sub>3</sub> catalyzed propane dehydrogenation: a mechanistic study. <i>Catalysis Science and Technology</i> , 2019, 9, 867-876.	2.1	21
173	Mechanism-guided elaboration of ternary Au-Ti-Si sites to boost propylene oxide formation. <i>Chem Catalysis</i> , 2021, 1, 885-895.	2.9	21
174	Preparation of CNF-supported Pt catalysts for hydrogen evolution from decalin. <i>Materials Chemistry and Physics</i> , 2011, 126, 41-45.	2.0	20
175	Gas-liquid mixing in a multi-scale micromixer with arborescence structure. <i>Chemical Engineering Journal</i> , 2011, 167, 475-482.	6.6	20
176	Effects of pretreatment temperature on bimetallic Ir-Re catalysts for glycerol hydrogenolysis. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1750-1758.	6.9	20
177	Morphology and location manipulation of Fe nanoparticles on carbon nanofibers as catalysts for ammonia decomposition to generate hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17466-17475.	3.8	20
178	Active sites and reaction mechanism for N-doped carbocatalysis of phenol removal. <i>Green Energy and Environment</i> , 2020, 5, 444-452.	4.7	20
179	Platelet carbon nanofibers as support of Pt-CoO electrocatalyst for superior hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2021, 52, 33-40.	7.1	20
180	Understanding size-dependent hydrogenation of dimethyl oxalate to methyl glycolate over Ag catalysts. <i>Journal of Catalysis</i> , 2021, 401, 252-261.	3.1	20

#	ARTICLE	IF	CITATIONS
181	Oxygen reduction reaction properties of carbon nanofibers: Effect of metal purification. <i>Electrochimica Acta</i> , 2008, 53, 3587-3596.	2.6	19
182	Continuous synthesis of methyl ethyl ketone peroxide in a microreaction system with concentrated hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2010, 181, 1024-1030.	6.5	19
183	Evolution of Carbon Nanofiber-Supported Pt Nanoparticles of Different Particle Sizes: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23711-23722.	1.5	19
184	Synthesis of platinum/graphene composites by a polyol method: The role of graphite oxide precursor surface chemistry. <i>Carbon</i> , 2015, 89, 93-101.	5.4	19
185	A mechanistic basis for the effects of Mn loading on C2+ oxygenates synthesis directly from syngas over Rh-MnO <sub>2</sub> /SiO <sub>2</sub> catalysts. <i>Chemical Engineering Science</i> , 2015, 135, 301-311.	1.9	19
186	New class of two-dimensional bimetallic nanoplatelets for high energy density and electrochemically stable hybrid supercapacitors. <i>Nano Research</i> , 2017, 10, 3018-3034.	5.8	19
187	Synthesis of Nanosized SAPO-34 via an Azeotrope Evaporation and Dry Gel Conversion Route and Its Catalytic Performance in Chloromethane Conversion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 548-558.	1.8	19
188	Toward rational catalyst design for partial hydrogenation of dimethyl oxalate to methyl glycolate: a descriptor-based microkinetic analysis. <i>Catalysis Science and Technology</i> , 2019, 9, 5763-5773.	2.1	19
189	Atomic Insights into Robust Pt-PdO Interfacial Site-Boosted Hydrogen Generation. <i>ACS Catalysis</i> , 2020, 10, 11417-11429.	5.5	19
190	Enhanced Distribution and Anchorage of Carbon Nanofibers Grown on Structured Carbon Microfibers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1301-1307.	1.5	18
191	Grafting of Poly(n-butylacrylate)-b-poly(2-hydroxyethyl methacrylate) on Carbon Fiber and its Effect on Composite Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 260-265.	1.9	18
192	Dependence of wall stress ratio on wall friction coefficient during the discharging of a 3D rectangular hopper. <i>Powder Technology</i> , 2015, 284, 326-335.	2.1	18
193	Mechanistic Understanding of Size-Dependent Oxygen Reduction Activity and Selectivity over Pt/CNT Nanocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3210-3217.	1.0	18
194	Catalyst consisting of Ag nanoparticles anchored on amine-derivatized mesoporous silica nanospheres for the selective hydrogenation of dimethyl oxalate to methyl glycolate. <i>Journal of Catalysis</i> , 2020, 391, 155-162.	3.1	18
195	Rational screening of single-atom-doped ZnO catalysts for propane dehydrogenation from microkinetic analysis. <i>Catalysis Science and Technology</i> , 2020, 10, 4938-4951.	2.1	18
196	Aluminous ZSM-48 Zeolite Synthesis Using a Hydroisomerization Intermediate Mimicking Allyltrimethylammonium Chloride as a Structure-Directing Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11139-11148.	1.8	18
197	Molecular-level insights into the electronic effects in platinum-catalyzed carbon monoxide oxidation. <i>Nature Communications</i> , 2021, 12, 6888.	5.8	18
198	Structural manipulation of the catalysts for ammonia decomposition. <i>Catalysis</i> , 2013, , 118-140.	0.6	17

#	ARTICLE	IF	CITATIONS
199	Kinetics of Catalytic Dehydrogenation of Propane over Pt-Based Catalysts. <i>Advances in Chemical Engineering</i> , 2014, 44, 61-125.	0.5	17
200	Carbon nanotubes as transient inhibitors in steam-assisted crystallization of hierarchical ZSM-5 zeolites. <i>Materials Letters</i> , 2015, 159, 466-469.	1.3	17
201	Hierarchical NiCo LDH@rGO/Ni Foam Composite as Electrode Material for High-Performance Supercapacitors. <i>Transactions of Tianjin University</i> , 2019, 25, 266-275.	3.3	17
202	On the nature of Pt-carbon interactions for enhanced hydrogen generation. <i>Journal of Catalysis</i> , 2020, 389, 492-501.	3.1	17
203	Methyl Methacrylate Synthesis: Thermodynamic Analysis for Oxidative Esterification of Methacrolein and Aldol Condensation of Methyl Acetate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17408-17416.	1.8	17
204	Enhanced acetylene semi-hydrogenation on a subsurface carbon tailored Ni-Ga intermetallic catalyst. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19722-19731.	5.2	17
205	Crystallization of zinc lactate in presence of malic acid. <i>Journal of Crystal Growth</i> , 2010, 312, 2747-2755.	0.7	16
206	A Novel Indium-Boron Amorphous Alloy Mediator for Barbier-Type Carbonyl Allylation in Aqueous Medium. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2131-2136.	2.1	16
207	Role of CO <sub>2</sub> in ethylbenzene dehydrogenation over Fe <sub>2</sub> O <sub>3</sub> (0 0 1) from first principles. <i>Journal of Molecular Catalysis A</i> , 2011, 344, 53-61.	4.8	16
208	The templating effect of an easily available cationic polymer with widely separated charge centers on the synthesis of a hierarchical ZSM-5 zeolite. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18666-18676.	5.2	16
209	Morphology dependence of catalytic properties of Ni nanoparticles at the tips of carbon nanofibers for ammonia decomposition to generate hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20722-20730.	3.8	16
210	Understanding supersaturation-dependent crystal growth of L-alanine in aqueous solution. <i>Crystal Research and Technology</i> , 2016, 51, 23-29.	0.6	16
211	Novel Fe/Mn@CNTs nanocomposites as catalysts for direct production of lower olefins from syngas. <i>AIChE Journal</i> , 2017, 63, 154-161.	1.8	16
212	Effect of electrode fabrication methods on the electrode performance for ethanol oxidation. <i>Journal of Power Sources</i> , 2011, 196, 159-163.	4.0	15
213	Nickel nanoparticles embedded in the framework of mesoporous TiO <sub>2</sub> : Efficient and highly stable catalysts for hydrodechlorination of chlorobenzene. <i>Applied Catalysis A: General</i> , 2012, 413-414, 350-357.	2.2	15
214	Solid-liquid equilibrium of dicyandiamide in different solvents. <i>Fluid Phase Equilibria</i> , 2014, 363, 228-232.	1.4	15
215	Selective Oxidation of Hydrogen in the Presence of Propylene over Pt-Based Core-Shell Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21386-21394.	1.5	15
216	Influence of catalyst pore network structure on the hysteresis of multiphase reactions. <i>AIChE Journal</i> , 2017, 63, 78-86.	1.8	15

#	ARTICLE	IF	CITATIONS
217	Site-Dependent Activity and Selectivity of H <sub>2</sub> O <sub>2</sub> Formation from H <sub>2</sub> and O <sub>2</sub> over Au-Based Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15119-15126.	1.8	15
218	Engineering the Hierarchical Pore Structures and Geometries of Hydrodemetallization Catalyst Pellets. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9829-9837.	1.8	15
219	Pore engineering of hierarchically structured hydrodemetallization catalyst pellets in a fixed bed reactor. <i>Chemical Engineering Science</i> , 2019, 202, 336-346.	1.9	15
220	Crucial size effects of atomic-layer-deposited Pt catalysts on methanol electrooxidation. <i>Catalysis Today</i> , 2021, 364, 157-163.	2.2	15
221	Rational design of intermetallic compound catalysts for propane dehydrogenation from a descriptor-based microkinetic analysis. <i>Journal of Catalysis</i> , 2021, 404, 32-45.	3.1	15
222	First-Principles Study of C Adsorption and Diffusion on the Surfaces and in the Subsurfaces of Nonreconstructed and Reconstructed Ni(100). <i>Journal of Physical Chemistry C</i> , 2007, 111, 3447-3453.	1.5	14
223	Evaluation of the performance of a constructal mixer with the iodide-iodate reaction system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 628-632.	1.8	14
224	Solubility and polymorphic forms of antibiotic lasalocid sodium in different organic solvents. <i>Fluid Phase Equilibria</i> , 2014, 374, 20-24.	1.4	14
225	Pickering emulsion mediated crystallization of hierarchical zeolite SSZ-13 with enhanced NH <sub>3</sub> selective catalytic reduction performance. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 202-214.	2.2	14
226	Synthesis of carbon nanofibers/mica hybrids for antistatic coatings. <i>Materials Letters</i> , 2010, 64, 711-714.	1.3	13
227	Flat interface mediated synthesis of platelet carbon nanofibers on Fe nanoparticles. <i>Catalysis Today</i> , 2012, 186, 48-53.	2.2	13
228	Insights into Polymorphic Transformation of L-Glutamic Acid: A Combined Experimental and Simulation Study. <i>Crystal Growth and Design</i> , 2015, 15, 3602-3608.	1.4	13
229	Effects of Oxygen Vacancy and Pt Doping on the Catalytic Performance of CeO <sub>2</sub> in Propane Dehydrogenation: A First-Principles Study. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2391-2402.	2.6	13
230	Numerical Investigation of Constructal Distributors with Different Configurations. <i>Chinese Journal of Chemical Engineering</i> , 2009, 17, 175-178.	1.7	12
231	Effects of Different Organic Acids on Solubility and Metastable Zone Width of Zinc Lactate. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2963-2970.	1.0	12
232	Deactivation and regeneration of Claus catalyst particles unraveled by pore network model. <i>Chemical Engineering Science</i> , 2020, 211, 115305.	1.9	12
233	Promotional Effect of Carbon on Fe Catalysts for Ammonia Decomposition: A Density Functional Theory Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 17151-17155.	1.8	11
234	Supersaturation-dependent polymorphic outcome and transformation rate of L-glutamic acid. <i>RSC Advances</i> , 2016, 6, 74700-74703.	1.7	11

#	ARTICLE	IF	CITATIONS
235	The urea-barbituric acid polymorphic co-crystal system: Characterization, thermodynamics and crystallization. <i>Journal of Crystal Growth</i> , 2018, 502, 45-53.	0.7	11
236	Origin of Chemisorption Energy Scaling Relations over Perovskite Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28275-28283.	1.5	11
237	BEEF-vdW+ <i>U</i> method applied to perovskites: thermodynamic, structural, electronic, and magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 145901.	0.7	11
238	Promotional effect of Ce and Fe addition on Cu-based extruded catalyst for catalytic elimination of co-fed acrylonitrile and HCN. <i>Catalysis Communications</i> , 2019, 123, 27-31.	1.6	11
239	Identification of Synergistic Actions between Cu <sup>0</sup> and Cu <sup>+</sup> Sites in Hydrogenation of Dimethyl Oxalate from Microkinetic Analysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 22451-22459.	1.8	11
240	Optimizing catalyst supports at single catalyst pellet and packed bed reactor levels: A comparison study. <i>AIChE Journal</i> , 2021, 67, e17163.	1.8	11
241	Simulation and optimization of a coupled reactor/column system for trioxane synthesis. <i>Chemical Engineering Science</i> , 1999, 54, 1353-1358.	1.9	10
242	Increasing the Molecular Weight of Poly(L-Lactic Acid) by Solid State Polycondensation in a Closed System. <i>Journal of Polymer Engineering</i> , 2003, 23, .	0.6	10
243	Modeling and Simulation of Coke Combustion Regeneration for Coked Cr <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Propane Dehydrogenation Catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 618-625.	1.7	10
244	Evolution of Pt Nanoparticles Supported on Fishbone-Type Carbon Nanofibers with Cone-Helix Structures: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14261-14271.	1.5	10
245	Effects of Solvent and Impurities on Crystal Morphology of Zinc Lactate Trihydrate. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 221-226.	1.7	10
246	Insights into the growth of small-sized SAPO-34 crystals synthesized by a vapor-phase transport method. <i>CrystEngComm</i> , 2015, 17, 3214-3218.	1.3	10
247	Biochemical composite synthesized by stepwise crosslinking: An efficient platform for one-pot biomass conversion. <i>Journal of Catalysis</i> , 2015, 327, 78-85.	3.1	10
248	Design, modeling, and optimization of a lightweight MeOH-to-H <sub>2</sub> processor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14451-14465.	3.8	10
249	A phase-transfer crystallization pathway to synthesize ultrasmall silicoaluminophosphate for enhanced catalytic conversion of dimethylether-to-olefin. <i>CrystEngComm</i> , 2019, 21, 577-582.	1.3	10
250	In-Situ Catalytic Upgrading of Tar and Coke during Biomass/Coal Co-pyrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17182-17191.	1.8	10
251	Solubility and thermodynamics of d-glucosamine 2-sulfate sodium salt in water and binary solvent mixtures with methanol, ethanol and n-propanol. <i>Journal of Molecular Liquids</i> , 2020, 300, 112218.	2.3	10
252	Design and tailoring of advanced catalytic process for light alkanes upgrading. <i>EcoMat</i> , 2021, 3, e12095.	6.8	10

#	ARTICLE	IF	CITATIONS
253	Liquid Flow and Mass Transfer Behaviors in a Butterfly-Shaped Microreactor. <i>Micromachines</i> , 2021, 12, 883.	1.4	10
254	Kinetically controlled synthesis of carbon nanofibers with different morphologies by catalytic CO disproportionation over iron catalyst. <i>Chemical Engineering Science</i> , 2010, 65, 193-200.	1.9	9
255	Effect of polymorphism on the purity of l-glutamic acid. <i>Journal of Crystal Growth</i> , 2013, 373, 78-81.	0.7	9
256	Design and optimization of an ammonia fuel processing unit for a stand-alone PEM fuel cell power generation system. <i>International Journal of Energy Research</i> , 2017, 41, 877-888.	2.2	9
257	CO Adsorption and Activation of $\gamma$ -Fe <sub>2</sub> C Fischer-Tropsch Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 21296-21303.	1.8	9
258	Process Monitoring via Key Principal Components and Local Information Based Weights. <i>IEEE Access</i> , 2019, 7, 15357-15366.	2.6	9
259	Role of Defective Sites in CO Adsorption over $\mu$ -Fe <sub>2</sub> C and $\lambda$ -Fe <sub>2</sub> C Fischer-Tropsch Catalysts. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4014-4022.	1.7	9
260	Direct and Efficient Synthesis of Clean H <sub>2</sub> O <sub>2</sub> from CO-Assisted Aqueous O <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2020, 10, 13993-14005.	5.5	9
261	Coupling non-isothermal trickle-bed reactor with catalyst pellet models to understand the reaction and diffusion in gas oil hydrodesulfurization. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1095-1106.	1.7	9
262	A Supervised Adaptive Resampling Monitoring Method for Quality Indicator in Time-Varying Process. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	2.4	9
263	Systematic thermodynamic study of clorsulon dissolved in ten organic solvents: Mechanism evaluation by modeling and molecular dynamic simulation. <i>Journal of Molecular Liquids</i> , 2021, 341, 117217.	2.3	9
264	Pt-O4 moiety induced electron localization toward In <sub>2</sub> O <sub>3</sub> -Triggered acetylene Semi-Hydrogenation. <i>Journal of Catalysis</i> , 2022, 407, 290-299.	3.1	9
265	Probing the structure sensitivity of dimethyl oxalate partial hydrogenation over Ag nanoparticles: A combined experimental and microkinetic study. <i>Chemical Engineering Science</i> , 2022, 259, 117830.	1.9	9
266	First-principles calculations of C diffusion through the surface and subsurface of Ag/Ni(100) and reconstructed Ag/Ni(100). <i>Surface Science</i> , 2010, 604, 186-195.	0.8	8
267	Support effects on catalytic performance for selective combustion of hydrogen in the presence of propene. <i>Fuel Processing Technology</i> , 2013, 108, 82-88.	3.7	8
268	Adsorption of a single Pt atom on polyaromatic hydrocarbons from first-principle calculations. <i>Chemical Physics Letters</i> , 2013, 575, 76-80.	1.2	8
269	Correlation of solubility and calculation of thermodynamic properties of guanidine nitrate in different solvents. <i>Fluid Phase Equilibria</i> , 2015, 388, 59-65.	1.4	8
270	Thermodynamic analysis of the solubility of polymorphic cytarabine in a variety of pure solvents. <i>Fluid Phase Equilibria</i> , 2017, 445, 1-6.	1.4	8



#	ARTICLE	IF	CITATIONS
271	Process simulation and optimization of propane dehydrogenation combined with selective hydrogen combustion. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 143, 107608.	1.8	8
272	Size-Dependent Segregation Preference in Single-Atom Alloys of Late Transition Metals: Effects of Magnetism, Electron Correlation, and Geometrical Strain. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18417-18424.	1.5	8
273	Crystal engineering of hierarchical zeolite in dynamically maintained Pickering emulsion. <i>Chemical Engineering Research and Design</i> , 2020, 153, 49-62.	2.7	8
274	Mechanistic aspects of facet-dependent CH <sub>4</sub> /C <sub>2</sub> + selectivity over a $\gamma$ -Fe <sub>5</sub> C <sub>2</sub> Fischer-Tropsch catalyst. <i>Green Energy and Environment</i> , 2022, 7, 449-456.	4.7	8
275	A pore network model for calculating pressure drop in packed beds of arbitrary-shaped particles. <i>AIChE Journal</i> , 2020, 66, e16258.	1.8	8
276	Effect of External Surface Diffusion Barriers on Platinum/Beta-Catalyzed Isomerization of n-Pentane. <i>Angewandte Chemie</i> , 2021, 133, 14515-14519.	1.6	8
277	Novel pharmaceutical cocrystal of lenalidomide with nicotinamide: Structural design, evaluation, and thermal phase transition study. <i>International Journal of Pharmaceutics</i> , 2022, 613, 121394.	2.6	8
278	Pressure Drop of Structured Packing of Carbon Nanofiber Composite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 3944-3951.	1.8	7
279	Hierarchically porous zeolite beta synthesized via steam-assisted crystallization of silanized dry gel. <i>Materials Letters</i> , 2014, 131, 214-216.	1.3	7
280	A hierarchical bulky ZSM-5 zeolite synthesized via glycerol-mediated crystallization using a mesoporous steam-treated dry gel as the precursor. <i>New Journal of Chemistry</i> , 2015, 39, 7777-7780.	1.4	7
281	Manipulating the architecture of zeolite catalysts for enhanced mass transfer. <i>Current Opinion in Chemical Engineering</i> , 2015, 9, 42-48.	3.8	7
282	Microporous inert membrane packed-bed reactor for propylene epoxidation with hydrogen and oxygen: Modelling and simulation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 425-433.	1.8	7
283	An analytical method for the optimization of pore network in lithium-ion battery electrodes. <i>Chemical Engineering Research and Design</i> , 2019, 149, 226-234.	2.7	7
284	Surface phase diagrams of La-based perovskites towards the O-rich limit from first principles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12859-12871.	1.3	7
285	Shape selectivity in acidic zeolite catalyzed 2-pentene skeletal isomerization from first principles. <i>Catalysis Today</i> , 2020, 347, 115-123.	2.2	7
286	Polymer decoration of carbon support to boost Pt-catalyzed hydrogen generation activity and durability. <i>Journal of Catalysis</i> , 2020, 385, 289-299.	3.1	7
287	Optimal design of hierarchically structured ZSM-5 zeolites for hexane isomerization. <i>AIChE Journal</i> , 2021, 67, e17355.	1.8	7
288	Kinetics and mechanistic insights into the hydrothermal synthesis of alumina microrods. <i>Chemical Engineering Science</i> , 2021, 244, 116817.	1.9	7

#	ARTICLE	IF	CITATIONS
289	High-yield production of <i>p</i> -diethynylbenzene through consecutive bromination/dehydrobromination in a microreactor system. <i>AIChE Journal</i> , 2022, 68, e17498.	1.8	7
290	A predictive neural network model based on the Karhunen-Loève expansion for wall-cooled fixed-bed reactors. <i>Canadian Journal of Chemical Engineering</i> , 1996, 74, 638-646.	0.9	6
291	Optimizing control of a wall-cooled fixed-bed reactor. <i>Chemical Engineering Science</i> , 1999, 54, 2739-2744.	1.9	6
292	Palladium Catalysts Supported on Fishbone Carbon Nanofibers from Different Carbon Sources. <i>Chinese Journal of Catalysis</i> , 2008, 29, 1107-1112.	6.9	6
293	Synthesis and characterization of carbon nanofiber/alumina composite by extrusion casting. <i>Carbon</i> , 2009, 47, 2077-2084.	5.4	6
294	Hydrogenation of acetylenic contaminants over Ni-Based catalyst: Enhanced performance by addition of silver. <i>Journal of Cleaner Production</i> , 2019, 220, 289-297.	4.6	6
295	Unprecedented yield of methyl-esterification with in-situ generated diazomethane in a microchannel reactor with methanol as solvent. <i>Chemical Engineering Science</i> , 2020, 213, 115397.	1.9	6
296	Engineering Ru atomic structures toward enhanced kinetics of hydrogen generation. <i>Chemical Engineering Science</i> , 2021, 235, 116507.	1.9	6
297	Hierarchical pore construction of alumina microrod supports for Pt catalysts toward the enhanced performance of n-heptane reforming. <i>Chemical Engineering Science</i> , 2022, 252, 117286.	1.9	6
298	Numerical Reconstruction of the Catalyst Bed Temperature Distribution in a Multitubular Fixed-Bed Reactor by Karhunen-Loève Expansion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 7818-7826.	1.8	5
299	Effect of Zn on the selectivity of Ru in benzene partial hydrogenation from density functional theory investigations. <i>Journal of Molecular Catalysis A</i> , 2013, 370, 44-49.	4.8	5
300	How PM2.5 Affects Pt-Catalyzed Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9385-9392.	3.2	5
301	Crucial roles of support modification and promoter introduction in Fe/CNT catalyzed syngas conversion to lower olefins. <i>Catalysis Today</i> , 2021, 368, 126-132.	2.2	5
302	Kinetics decoupling activity and selectivity of Pt nanocatalyst for enhanced glycerol oxidation performance. <i>AIChE Journal</i> , 2021, 67, e17339.	1.8	5
303	Jet Fuel Range Hydrocarbon Production from Propanal: Mechanistic Insights into Active Site Requirement of a Dual-Bed Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9434-9446.	3.2	5
304	Tuning partially charged Pt <sup>+</sup> of atomically dispersed Pt catalysts toward superior propane dehydrogenation performance. <i>Catalysis Science and Technology</i> , 2021, 11, 7840-7843.	2.1	5
305	Thermodynamics of Carbon Monoxide Adsorption on Cu/SBA-15 Catalysts: Under Vacuum versus under Atmospheric Pressures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3078-3086.	1.5	5
306	Catalyst particle shapes and pore structure engineering for hydrodesulfurization and hydrodenitrogenation reactions. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 897-908.	2.3	5

#	ARTICLE	IF	CITATIONS
307	Size Dependence of Pd-Catalyzed Hydrogenation of 2,6-Diamino-3,5-dinitropyridine. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6427-6435.	1.8	5
308	Studies on paired packed-bed electrode reactor: Modeling and experiments. <i>Chemical Engineering Science</i> , 1999, 54, 2969-2977.	1.9	4
309	Grafting of polystyrene on carbon nanofibers by introducing a methacrylate unit. <i>Polymer International</i> , 2009, 58, 564-569.	1.6	4
310	Bis(perfluoro-2-n-propoxyethyl)diacyl peroxide initiated homopolymerization of vinylidene fluoride (VDF) and copolymerization with perfluoro-n-propylvinylether (PPVE). <i>Polymer</i> , 2014, 55, 3557-3563.	1.8	4
311	Dynamic control of a selective hydrogenation process with undesired MAPD impurities in the C3-cut streams. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 54, 28-36.	2.7	4
312	Effects of methylating agent and Brønsted acidity on methylation activity of olefins in CHA-structured zeolites: A periodic DFT study. <i>Molecular Catalysis</i> , 2018, 446, 106-114.	1.0	4
313	Decoding Atomic-Level Structures of the Interface between Pt Sub-nanocrystals and Nanostructured Carbon. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7166-7178.	1.5	4
314	Boosting Size-Selective Hydrogen Combustion in the Presence of Propene Using Controllable Metal Clusters Encapsulated in Zeolite. <i>Angewandte Chemie</i> , 2018, 130, 9918-9922.	1.6	4
315	Understanding of two-stage continuous microreaction technology for in-situ generation and consecutive conversion of diazomethane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 94-98.	2.7	4
316	Explosion limits estimation and process optimization of direct propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2968-2978.	1.7	4
317	Elucidating the methanol conversion in H-SAPO-5 from first principles: Nature of hydrocarbon pool and scission style. <i>Molecular Catalysis</i> , 2020, 490, 110948.	1.0	4
318	Optimization of catalyst pellet structures and operation conditions for CO methanation. <i>Chinese Journal of Chemical Engineering</i> , 2021, 40, 106-113.	1.7	4
319	Combining trace Pt with surface silylation to boost Au/uncalcined TS <sub>1</sub> catalyzed propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>AIChE Journal</i> , 2022, 68, e17416.	1.8	4
320	Enhanced catalytic performance of transition metal-doped Cr <sub>2</sub> O <sub>3</sub> catalysts for propane dehydrogenation: A microkinetic modeling study. <i>Chemical Engineering Journal</i> , 2022, 446, 136913.	6.6	4
321	Structure-sensitivity of CH <sub>3</sub> dissociation on Ni(100) from first-principles calculations. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 511-517.	0.8	3
322	Pressure Drop and Residence Time Distribution in Carbon-Nanofiber/Graphite-Felt Composite for Single Liquid-Phase Flow. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 9431-9436.	1.8	3
323	Evaluation of approximations for concentration-dependent micropore diffusion in sorbent with bidisperse pore structure. <i>Adsorption</i> , 2014, 20, 843-853.	1.4	3
324	Kinetic modeling on batch-cooling crystallization of zinc lactate: The influence of malic acid. <i>Journal of Crystal Growth</i> , 2017, 463, 162-167.	0.7	3

#	ARTICLE	IF	CITATIONS
325	Cobalt-based layered metal compound nanoplatelets for lithium-ion batteries. <i>Materials Letters</i> , 2017, 194, 189-192.	1.3	3
326	Determination of Ternary Vapor-Liquid Equilibrium of Dimethyl Oxalate-Methanol-1,2-Butanediol under Atmosphere Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 1349-1356.	1.0	3
327	Modeling of propane dehydrogenation combined with chemical looping combustion of hydrogen in a fixed bed reactor. <i>Chinese Journal of Chemical Engineering</i> , 2022, 47, 165-173.	1.7	3
328	Thermodynamics Insights into the Selective Hydrogenation of Alkynes in C <sub>2</sub> and C <sub>3</sub> Streams. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 16969-16980.	1.8	3
329	Rational design of heterogeneous catalysts by breaking and rebuilding scaling relations. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 22-28.	1.7	3
330	Crystal-size-dependent external surface diffusion barriers in Pt/ZSM-5 catalyzed n-pentane isomerization. <i>AIChE Journal</i> , 2022, 68, .	1.8	3
331	A Mechanistic Study of Oxygen Replenishment of Reduced Perovskites in Chemical Looping Redox Reactions. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7431-7445.	1.5	3
332	Control Vector Parametrization with Karhunen-Loève Expansion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 127-135.	1.8	2
333	Catalytic Vapor Decomposition of Methane over Nickel Catalyst: Growth Rate and the Corresponding Microstructures of Carbon Nanofibers. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, S204-S211.	0.3	2
334	Hydrodynamics and mass transfer in carbon-nanofiber/graphite-felt composite under two phase flow conditions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 1108-1114.	1.8	2
335	Exploiting polymorphism in the purity enhancement of lincomycin hydrochloride. <i>Chemical Engineering Science</i> , 2012, 77, 42-46.	1.9	2
336	Comparative Study of Clogging in Valve and Cascade Mixers. <i>Chemical Engineering and Technology</i> , 2016, 39, 1451-1456.	0.9	2
337	Mechanistic insights into acid-affected hydrogenolysis of glycerol to 1,3-propanediol over an Ir/Re/SiO <sub>2</sub> catalyst. <i>Chemical Communications</i> , 2022, , .	2.2	2
338	Computer-aided bimetallic catalyst screening for ester selective hydrogenation. <i>Catalysis Science and Technology</i> , 2022, 12, 2761-2765.	2.1	2
339	Engineering Pore Network Structure of Binders for Improved Catalytic Performance of Zeolite Pellets Using a Multiscale Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6354-6366.	1.8	2
340	Probing deactivation by coking in catalyst pellets for dry reforming of methane using a pore network model. <i>Chinese Journal of Chemical Engineering</i> , 2023, 55, 293-303.	1.7	2
341	Water Effect on Secondary Nucleation of $\beta$ -Form on the Surface of the $\alpha$ -Form of L-Glutamic Acid. <i>Chemical Engineering and Technology</i> , 2016, 39, 1295-1300.	0.9	1
342	Decoding structural complexity in conical carbon nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14555-14565.	1.3	1

#	ARTICLE	IF	CITATIONS
343	Thermal stability of nanoparticle supported on Al <sub>2</sub> O <sub>3</sub> with different morphologies. Materials Research Express, 2019, 6, 095064.	0.8	1
344	Distribution Characteristics of Coking Products and Mechanism of Tar Lightening in Preparation of High-Strength Gasification-Coke with Low-Rank Coal Blending. Energy & Fuels, 2019, 33, 10904-10912.	2.5	1
345	Solvent Screening and Process Optimization for Separating Propylene Oxide from Direct Propylene Epoxidation with H <sub>2</sub> and O <sub>2</sub> . Industrial & Engineering Chemistry Research, 2019, 58, 395-402.	1.8	1
346	Integrated Reactor&Combustor Recycling System for Safe Operation by Catalytic Removal of Excess O <sub>2</sub> . Chemical Engineering and Technology, 2021, 44, 670-680.	0.9	1
347	Enhanced recycling performance of bimetallic Ir-Re/SiO <sub>2</sub> catalyst by amberlyst-15 for glycerol hydrogenolysis. Chinese Journal of Chemical Engineering, 2022, 45, 171-181.	1.7	1
348	Taming Electrons in Pt/C Catalysts to Boost the Mesokinetics of Hydrogen Production. Engineering, 2022, 14, 124-133.	3.2	1
349	Reducing External Surface Diffusion Barriers by Chemical Vapor Deposition for Improved Zeolite Catalysis. Industrial & Engineering Chemistry Research, 2022, 61, 5747-5756.	1.8	1
350	Effect of hydrogen on the synthesis of carbon nanofibers by CO disproportionation on ultrafine Fe <sub>3</sub> O <sub>4</sub> . Asia-Pacific Journal of Chemical Engineering, 2009, 4, 590-595.	0.8	0
351	Mass Transfer Intensification in Micro-Fluidic Devices. , 2013, , 113-139.		0
352	Molecular&Level Insights into the Notorious CO Poisoning of Platinum Catalyst. Angewandte Chemie, 0, , .	1.6	0
353	Effects of SiO <sub>2</sub> Deposition on Surface Barriers and Catalytic Activity of Different Zeolites. Catalysis Letters, 0, , 1.	1.4	0