Xing-Gui Zhou

List of Publications by Year
in descending order

353	11,764	29994 54	51492 86
papers	citations	h-index	g-index

356	356	356	10375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing deactivation by coking in catalyst pellets for dry reforming of methane using a pore network model. Chinese Journal of Chemical Engineering, 2023, 55, 293-303.	1.7	2
2	Mechanistic aspects of facet-dependent CH4/C2+ selectivity over a Ï‡-Fe5C2 Fischerâ€“Tropsch catalyst. Green Energy and Environment, 2022, 7, 449-456.	4.7	8
3	Enhanced recycling performance of bimetallic Ir-Re/SiO2 catalyst by amberlyst-15 for glycerol hydrogenolysis. Chinese Journal of Chemical Engineering, 2022, 45, 171-181.	1.7	1
4	Combining trace Pt with surface silylation to boost Au/uncalcined <scp>TS</scp>â€1 catalyzed propylene epoxidation with <scp>H₂</scp> and <scp>O₂</scp>. AICHE Journal, 2022, 68, e17416.	1.8	4
5	Modeling of propane dehydrogenation combined with chemical looping combustion of hydrogen in a fixed bed reactor. Chinese Journal of Chemical Engineering, 2022, 47, 165-173.	1.7	3
6	Highâ€yield production of pâ€diethynylbenzene through consecutive bromination/dehydrobromination in a microreactor system. AICHE Journal, 2022, 68, e17498.	1.8	7
7	On the ensemble requirement of fully selective chemical looping methane partial oxidation over La-Fe-based perovskites. Applied Catalysis B: Environmental, 2022, 301, 120788.	10.8	34
8	Hierarchical pore construction of alumina microrod supports for Pt catalysts toward the enhanced performance of n-heptane reforming. Chemical Engineering Science, 2022, 252, 117286.	1.9	6
9	Novel pharmaceutical cocrystal of lenalidomide with nicotinamide: Structural design, evaluation, and thermal phase transition study. International Journal of Pharmaceutics, 2022, 613, 121394.	2.6	8
10	Mechanistic insights into acid-affected hydrogenolysis of glycerol to 1,3-propanediol over an Irâ€“Re/SiO2 catalyst. Chemical Communications, 2022, , .	2.2	2
11	Rational design of heterogeneous catalysts by breaking and rebuilding scaling relations. Chinese Journal of Chemical Engineering, 2022, 41, 22-28.	1.7	3
12	Thermodynamics of Carbon Monoxide Adsorption on Cu/SBA-15 Catalysts: Under Vacuum versus under Atmospheric Pressures. Journal of Physical Chemistry C, 2022, 126, 3078-3086.	1.5	5
13	Molecularâ€Level Insights into the Notorious CO Poisoning of Platinum Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
14	Pt-O4 moiety induced electron localization toward In2O-Triggered acetylene Semi-Hydrogenation. Journal of Catalysis, 2022, 407, 290-299.	3.1	9
15	Crystalâ€sizeâ€“dependent external surface diffusion barriers in Pt/<scp>ZSM</scp>â€5 catalyzed nâ€pentane isomerization. AICHE Journal, 2022, 68, .	1.8	3
16	Catalyst particle shapes and pore structure engineering for hydrodesulfurization and hydrodenitrogenation reactions. Frontiers of Chemical Science and Engineering, 2022, 16, 897-908.	2.3	5
17	Computer-aided bimetallic catalyst screening for ester selective hydrogenation. Catalysis Science and Technology, 2022, 12, 2761-2765.	2.1	2
18	Taming Electrons in Pt/C Catalysts to Boost the Mesokinetics of Hydrogen Production. Engineering, 2022, 14, 124-133.	3.2	1

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19	Reducing External Surface Diffusion Barriers by Chemical Vapor Deposition for Improved Zeolite Catalysis. Industrial & Engineering Chemistry Research, 2022, 61, 5747-5756.	1.8	1
20	A Mechanistic Study of Oxygen Replenishment of Reduced Perovskites in Chemical Looping Redox Reactions. Journal of Physical Chemistry C, 2022, 126, 7431-7445.	1.5	3
21	Size Dependence of Pd-Catalyzed Hydrogenation of 2,6-Diamino-3,5-dinitropyridine. Industrial & Engineering Chemistry Research, 2022, 61, 6427-6435.	1.8	5
22	Engineering Pore Network Structure of Binders for Improved Catalytic Performance of Zeolite Pellets Using a Multiscale Model. Industrial & Engineering Chemistry Research, 2022, 61, 6354-6366.	1.8	2
23	Enhanced catalytic performance of transition metal-doped Cr2O3 catalysts for propane dehydrogenation: A microkinetic modeling study. Chemical Engineering Journal, 2022, 446, 136913.	6.6	4
24	Enhanced acetylene semi-hydrogenation on a subsurface carbon tailored Niâ€“Ga intermetallic catalyst. Journal of Materials Chemistry A, 2022, 10, 19722-19731.	5.2	17
25	Probing the structure sensitivity of dimethyl oxalate partial hydrogenation over Ag nanoparticles: A combined experimental and microkinetic study. Chemical Engineering Science, 2022, 259, 117830.	1.9	9
26	Platelet carbon nanofibers as support of Pt-CoO electrocatalyst for superior hydrogen evolution. Journal of Energy Chemistry, 2021, 52, 33-40.	7.1	20
27	Crucial size effects of atomic-layer-deposited Pt catalysts on methanol electrooxidation. Catalysis Today, 2021, 364, 157-163.	2.2	15
28	Support effects of Cs/Al2O3 catalyzed aldol condensation of methyl acetate with formaldehyde. Catalysis Today, 2021, 365, 310-317.	2.2	27
29	Tailoring catalytic properties of V2O3 to propane dehydrogenation through single-atom doping: A DFT study. Catalysis Today, 2021, 368, 46-57.	2.2	29
30	Crucial roles of support modification and promoter introduction in Fe/CNT catalyzed syngas conversion to lower olefins. Catalysis Today, 2021, 368, 126-132.	2.2	5
31	A Supervised Adaptive Resampling Monitoring Method for Quality Indicator in Time-Varying Process. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	9
32	Integrated Reactorâ€Combustor Recycling System for Safe Operation by Catalytic Removal of Excess O 2. Chemical Engineering and Technology, 2021, 44, 670-680.	0.9	1
33	Optimizing catalyst supports at single catalyst pellet and packed bed reactor levels: A comparison study. AICHE Journal, 2021, 67, e17163.	1.8	11
34	Design and tailoring of advanced catalytic process for light alkanes upgrading. EcoMat, 2021, 3, e12095.	6.8	10
35	Rational Design of Single-Atom-Doped Ga₂O₃ Catalysts for Propane Dehydrogenation: Breaking through Volcano Plot by Lewis Acidâ€“Base Interactions. ACS Catalysis, 2021, 11, 5135-5147.	5.5	41
36	Effect of External Surface Diffusion Barriers on Platinum/Betaâ€Catalyzed Isomerization of n â€Pentane. Angewandte Chemie, 2021, 133, 14515-14519.	1.6	8

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37	Optimization of catalyst pellet structures and operation conditions for CO methanation. Chinese Journal of Chemical Engineering, 2021, 40, 106-113.	1.7	4
38	Effect of External Surface Diffusion Barriers on Platinum/Betaâ€Catalyzed Isomerization of nâ€Pentane. Angewandte Chemie - International Edition, 2021, 60, 14394-14398.	7.2	34
39	Engineering Ru atomic structures toward enhanced kinetics of hydrogen generation. Chemical Engineering Science, 2021, 235, 116507.	1.9	6
40	Kinetics decoupling activity and selectivity of Pt nanocatalyst for enhanced glycerol oxidation performance. AICHE Journal, 2021, 67, e17339.	1.8	5
41	Optimal design of hierarchically structured <scp>ZSM</scp>â€5 zeolites for <scp>nâ€hexane</scp> isomerization. AICHE Journal, 2021, 67, e17355.	1.8	7
42	Effects of Oxygen Vacancy and Pt Doping on the Catalytic Performance of <scp>CeO₂</scp> in Propane Dehydrogenation: A <scp>Firstâ€Principles</scp> Study. Chinese Journal of Chemistry, 2021, 39, 2391-2402.	2.6	13
43	High-Throughput Screening of Alloy Catalysts for Dry Methane Reforming. ACS Catalysis, 2021, 11, 8881-8894.	5.5	47
44	Liquid Flow and Mass Transfer Behaviors in a Butterfly-Shaped Microreactor. Micromachines, 2021, 12, 883.	1.4	10
45	Mechanism-guided elaboration of ternary Auâ€“Tiâ€“Si sites to boost propylene oxide formation. Chem Catalysis, 2021, 1, 885-895.	2.9	21
46	Understanding size-dependent hydrogenation of dimethyl oxalate to methyl glycolate over Ag catalysts. Journal of Catalysis, 2021, 401, 252-261.	3.1	20
47	Kinetics and mechanistic insights into the hydrothermal synthesis of alumina microrods. Chemical Engineering Science, 2021, 244, 116817.	1.9	7
48	Systematic thermodynamic study of clorsulon dissolved in ten organic solvents: Mechanism evaluation by modeling and molecular dynamic simulation. Journal of Molecular Liquids, 2021, 341, 117217.	2.3	9
49	Rational design of intermetallic compound catalysts for propane dehydrogenation from a descriptor-based microkinetic analysis. Journal of Catalysis, 2021, 404, 32-45.	3.1	15
50	Structural and Kinetics Understanding of Support Effects in Pd-Catalyzed Semi-Hydrogenation of Acetylene. Engineering, 2021, 7, 103-110.	3.2	36
51	Thermodynamics Insights into the Selective Hydrogenation of Alkynes in C₂ and C₃ Streams. Industrial & Engineering Chemistry Research, 2021, 60, 16969-16980.	1.8	3
52	Molecular-level insights into the electronic effects in platinum-catalyzed carbon monoxide oxidation. Nature Communications, 2021, 12, 6888.	5.8	18
53	Tuning partially charged Pt^{Î´+}of atomically dispersed Pt catalysts toward superior propane dehydrogenation performance. Catalysis Science and Technology, 2021, 11, 7840-7843.	2.1	5
54	Polyoxometalates-engineered hydrogen generation rate and durability of Pt/CNT catalysts from ammonia borane. Journal of Energy Chemistry, 2020, 41, 142-148.	7.1	26

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55	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. Catalysis Today, 2020, 355, 319-324.	2.2	28
56	Propene epoxidation with H2 and O2 on Au/TS-1 catalyst: Cost-effective synthesis of small-sized mesoporous TS-1 and its unique performance. Catalysis Today, 2020, 347, 102-109.	2.2	29
57	Shape selectivity in acidic zeolite catalyzed 2-pentene skeletal isomerization from first principles. Catalysis Today, 2020, 347, 115-123.	2.2	7
58	Active sites engineering of Pt/CNT oxygen reduction catalysts by atomic layer deposition. Journal of Energy Chemistry, 2020, 45, 59-66.	7.1	54
59	Uncalcined TSâ€2 immobilized Au nanoparticles as a bifunctional catalyst to boost direct propylene epoxidation with H₂ and O₂. AIChE Journal, 2020, 66, e16815.	1.8	31
60	Deactivation and regeneration of Claus catalyst particles unraveled by pore network model. Chemical Engineering Science, 2020, 211, 115305.	1.9	12
61	Active sites of Pt/CNTs nanocatalysts for aerobic base-free oxidation of glycerol. Green Energy and Environment, 2020, 5, 76-82.	4.7	22
62	Tailoring electronic properties and kinetics behaviors of Pd/Nâ€CNTs catalysts for selective hydrogenation of acetylene. AIChE Journal, 2020, 66, e16857.	1.8	28
63	In-Situ Catalytic Upgrading of Tar and Coke during Biomass/Coal Co-pyrolysis. Industrial & Engineering Chemistry Research, 2020, 59, 17182-17191.	1.8	10
64	Understanding the Role of Internal Diffusion Barriers in Pt/Beta Zeolite Catalyzed Isomerization of nâ€Heptane. Angewandte Chemie, 2020, 132, 1564-1567.	1.6	24
65	Understanding the Role of Internal Diffusion Barriers in Pt/Beta Zeolite Catalyzed Isomerization of nâ€Heptane. Angewandte Chemie - International Edition, 2020, 59, 1548-1551.	7.2	37
66	Crystal engineering of hierarchical zeolite in dynamically maintained Pickering emulsion. Chemical Engineering Research and Design, 2020, 153, 49-62.	2.7	8
67	Unprecedented yield of methyl-esterification with in-situ generated diazomethane in a microchannel reactor with methanol as solvent. Chemical Engineering Science, 2020, 213, 115397.	1.9	6
68	Dry reforming of methane on Ni-Fe-MgO catalysts: Influence of Fe on carbon-resistant property and kinetics. Applied Catalysis B: Environmental, 2020, 264, 118497.	10.8	122
69	Solubility and thermodynamics of d-glucosamine 2-sulfate sodium salt in water and binary solvent mixtures with methanol, ethanol and n-propanol. Journal of Molecular Liquids, 2020, 300, 112218.	2.3	10
70	Catalyst consisting of Ag nanoparticles anchored on amine-derivatized mesoporous silica nanospheres for the selective hydrogenation of dimethyl oxalate to methyl glycolate. Journal of Catalysis, 2020, 391, 155-162.	3.1	18
71	Bi-reforming of methane with steam and CO₂ under pressurized conditions on a durable Irâ€“Ni/MgAl₂O₄ catalyst. Chemical Communications, 2020, 56, 13536-13539.	2.2	24
72	Size Dependence of Pt Catalysts for Propane Dehydrogenation: from Atomically Dispersed to Nanoparticles. ACS Catalysis, 2020, 10, 12932-12942.	5.5	144

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73	Role of Câ€Defective Sites in CO Adsorption over Ïµâ€Fe 2 C and Î·â€Fe 2 C Fischerâ€Tropsch Catalysts. Chemistry - an Asian Journal, 2020, 15, 4014-4022.	1.7	9
74	How PM2.5 Affects Pt-Catalyzed Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 9385-9392.	3.2	5
75	Beyond the Reverse Horiutiâ€“Polanyi Mechanism in Propane Dehydrogenation over Pt Catalysts. ACS Catalysis, 2020, 10, 14887-14902.	5.5	44
76	Direct and Efficient Synthesis of Clean H₂O₂ from CO-Assisted Aqueous O₂ Reduction. ACS Catalysis, 2020, 10, 13993-14005.	5.5	9
77	Atomic Insights into Robust Ptâ€“PdO Interfacial Site-Boosted Hydrogen Generation. ACS Catalysis, 2020, 10, 11417-11429.	5.5	19
78	Identification of Synergistic Actions between Cu⁰ and Cu⁺ Sites in Hydrogenation of Dimethyl Oxalate from Microkinetic Analysis. Industrial & Engineering Chemistry Research, 2020, 59, 22451-22459.	1.8	11
79	A pore network model for calculating pressure drop in packed beds of arbitraryâ€shaped particles. AICHE Journal, 2020, 66, e16258.	1.8	8
80	Rational screening of single-atom-doped ZnO catalysts for propane dehydrogenation from microkinetic analysis. Catalysis Science and Technology, 2020, 10, 4938-4951.	2.1	18
81	Active sites and reaction mechanism for N-doped carbocatalysis of phenol removal. Green Energy and Environment, 2020, 5, 444-452.	4.7	20
82	Elucidating the methanol conversion in H-SAPO-5 from first principles: Nature of hydrocarbon pool and scission style. Molecular Catalysis, 2020, 490, 110948.	1.0	4
83	Synergistic Pt-WO3 Dual Active Sites to Boost Hydrogen Production from Ammonia Borane. IScience, 2020, 23, 100922.	1.9	35
84	Zeolite crystal size effects of Au/uncalcined TS-1 bifunctional catalysts on direct propylene epoxidation with H2 and O2. Chemical Engineering Science, 2020, 227, 115907.	1.9	28
85	On the nature of Pt-carbon interactions for enhanced hydrogen generation. Journal of Catalysis, 2020, 389, 492-501.	3.1	17
86	Kinetic Study of the Hydrogenation of Unsaturated Aldehydes Promoted by CuPt_x/SBA-15 Single-Atom Alloy (SAA) Catalysts. ACS Catalysis, 2020, 10, 3431-3443.	5.5	53
87	Heat integrated technology assisted pressure-swing distillation for the mixture of ethylene glycol and 1,2-butanediol. Separation and Purification Technology, 2020, 241, 116740.	3.9	25
88	Coupling non-isothermal trickle-bed reactor with catalyst pellet models to understand the reaction and diffusion in gas oil hydrodesulfurization. Chinese Journal of Chemical Engineering, 2020, 28, 1095-1106.	1.7	9
89	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 11647-11652.	7.2	111
90	Polymer decoration of carbon support to boost Pt-catalyzed hydrogen generation activity and durability. Journal of Catalysis, 2020, 385, 289-299.	3.1	7

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91	Dualâ€function catalysis in propane dehydrogenation over <scp>Pt₁â€“Ga₂O₃</scp> catalyst: Insights from a microkinetic analysis. AIChE Journal, 2020, 66, e16232.	1.8	27
92	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 11744-11749.	1.6	31
93	Aluminous ZSM-48 Zeolite Synthesis Using a Hydroisomerization Intermediate Mimicking Allyltrimethylammonium Chloride as a Structure-Directing Agent. Industrial & Engineering Chemistry Research, 2020, 59, 11139-11148.	1.8	18
94	Methyl Methacrylate Synthesis: Thermodynamic Analysis for Oxidative Esterification of Methacrolein and Aldol Condensation of Methyl Acetate. Industrial & Engineering Chemistry Research, 2020, 59, 17408-17416.	1.8	17
95	Jet Fuel Range Hydrocarbon Production from Propanal: Mechanistic Insights into Active Site Requirement of a Dual-Bed Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 9434-9446.	3.2	5
96	Hierarchical NiCo LDHâ€“rGO/Ni Foam Composite as Electrode Material for High-Performance Supercapacitors. Transactions of Tianjin University, 2019, 25, 266-275.	3.3	17
97	Understanding of two-stage continuous microreaction technology for in-situ generation and consecutive conversion of diazomethane. Journal of the Taiwan Institute of Chemical Engineers, 2019, 98, 94-98.	2.7	4
98	Site-Dependent Activity and Selectivity of H₂O₂ Formation from H₂ and O₂ over Au-Based Catalysts. Industrial & Engineering Chemistry Research, 2019, 58, 15119-15126.	1.8	15
99	Thermal stability of nanoparticle supported on Al2O3 with different morphologies. Materials Research Express, 2019, 6, 095064.	0.8	1
100	Process simulation and optimization of propane dehydrogenation combined with selective hydrogen combustion. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107608.	1.8	8
101	An analytical method for the optimization of pore network in lithium-ion battery electrodes. Chemical Engineering Research and Design, 2019, 149, 226-234.	2.7	7
102	Size-Dependent Segregation Preference in Single-Atom Alloys of Late Transition Metals: Effects of Magnetism, Electron Correlation, and Geometrical Strain. Journal of Physical Chemistry C, 2019, 123, 18417-18424.	1.5	8
103	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. Carbon, 2019, 153, 73-80.	5.4	93
104	CO Adsorption and Activation of Î·-Fe₂C Fischerâ€“Tropsch Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 21296-21303.	1.8	9
105	Boosting HER Performance of Pt-Based Catalysts Immobilized on Functionalized Vulcan Carbon by Atomic Layer Deposition. Frontiers in Materials, 2019, 6, .	1.2	44
106	Origin of Chemisorption Energy Scaling Relations over Perovskite Surfaces. Journal of Physical Chemistry C, 2019, 123, 28275-28283.	1.5	11
107	Surface Engineering and Kinetics Behaviors of Au/Uncalcined TS-1 Catalysts for Propylene Epoxidation with H₂ and O₂. Industrial & Engineering Chemistry Research, 2019, 58, 17300-17307.	1.8	29
108	Toward rational catalyst design for partial hydrogenation of dimethyl oxalate to methyl glycolate: a descriptor-based microkinetic analysis. Catalysis Science and Technology, 2019, 9, 5763-5773.	2.1	19

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109	Controlling Selectivity in Unsaturated Aldehyde Hydrogenation Using Single-Site Alloy Catalysts. ACS Catalysis, 2019, 9, 9150-9157.	5.5	55
110	The role of H₂S addition on Pt/Al₂O₃ catalyzed propane dehydrogenation: a mechanistic study. Catalysis Science and Technology, 2019, 9, 867-876.	2.1	21
111	Kinetics-assisted discrimination of active sites in Ru catalyzed hydrolytic dehydrogenation of ammonia borane. Reaction Chemistry and Engineering, 2019, 4, 316-322.	1.9	24
112	Explosion limits estimation and process optimization of direct propylene epoxidation with H2 and O2. Chinese Journal of Chemical Engineering, 2019, 27, 2968-2978.	1.7	4
113	Hydrogenation of acetylenic contaminants over Ni-Based catalyst: Enhanced performance by addition of silver. Journal of Cleaner Production, 2019, 220, 289-297.	4.6	6
114	A phase-transfer crystallization pathway to synthesize ultrasmall silicoaluminophosphate for enhanced catalytic conversion of dimethylether-to-olefin. CrystEngComm, 2019, 21, 577-582.	1.3	10
115	Optimizing catalyst pore network structure in the presence of deactivation by coking. AICHE Journal, 2019, 65, e16687.	1.8	25
116	Process Monitoring via Key Principal Components and Local Information Based Weights. IEEE Access, 2019, 7, 15357-15366.	2.6	9
117	Insights into Hydrogen Transport Behavior on Perovskite Surfaces: Transition from the Grotthuss Mechanism to the Vehicle Mechanism. Langmuir, 2019, 35, 9962-9969.	1.6	29
118	Tuning Adsorption and Catalytic Properties of Î±-Cr₂O₃ and ZnO in Propane Dehydrogenation by Creating Oxygen Vacancy and Doping Single Pt Atom: A Comparative First-Principles Study. Industrial & Engineering Chemistry Research, 2019, 58, 10199-10209.	1.8	38
119	Surface phase diagrams of La-based perovskites towards the O-rich limit from first principles. Physical Chemistry Chemical Physics, 2019, 21, 12859-12871.	1.3	7
120	Pickering emulsion mediated crystallization of hierarchical zeolite SSZ-13 with enhanced NH3 selective catalytic reduction performance. Microporous and Mesoporous Materials, 2019, 285, 202-214.	2.2	14
121	Engineering the Hierarchical Pore Structures and Geometries of Hydrodemetallization Catalyst Pellets. Industrial & Engineering Chemistry Research, 2019, 58, 9829-9837.	1.8	15
122	Enhanced performance of catalyst pellets for methane dry reforming by engineering pore network structure. Chemical Engineering Journal, 2019, 373, 1389-1396.	6.6	22
123	Determination of Ternary Vaporâ€“Liquid Equilibrium of Dimethyl Oxalateâ€“Methanol-1,2-Butanediol under Atmosphere Pressure. Journal of Chemical & Engineering Data, 2019, 64, 1349-1356.	1.0	3
124	BEEF-vdW+U method applied to perovskites: thermodynamic, structural, electronic, and magnetic properties. Journal of Physics Condensed Matter, 2019, 31, 145901.	0.7	11
125	Mechanistic Understanding of Sizeâ€Dependent Oxygen Reduction Activity and Selectivity over Pt/CNT Nanocatalysts. European Journal of Inorganic Chemistry, 2019, 2019, 3210-3217.	1.0	18
126	Pore engineering of hierarchically structured hydrodemetallization catalyst pellets in a fixed bed reactor. Chemical Engineering Science, 2019, 202, 336-346.	1.9	15

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127	Reaction mechanism and kinetics for Pt/CNTs catalyzed base-free oxidation of glycerol. Chemical Engineering Science, 2019, 203, 228-236.	1.9	32
128	Promotional effect of Ce and Fe addition on Cu-based extruded catalyst for catalytic elimination of co-fed acrylonitrile and HCN. Catalysis Communications, 2019, 123, 27-31.	1.6	11
129	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
130	Performance-Indicator-Oriented Concurrent Subspace Process Monitoring Method. IEEE Transactions on Industrial Electronics, 2019, 66, 5535-5545.	5.2	69
131	Cost-efficient core-shell TS-1/silicalite-1 supported Au catalysts: Towards enhanced stability for propene epoxidation with H2 and O2. Chemical Engineering Journal, 2019, 377, 119927.	6.6	35
132	Solvent Screening and Process Optimization for Separating Propylene Oxide from Direct Propylene Epoxidation with H2 and O2. Industrial & Engineering Chemistry Research, 2019, 58, 395-402.	1.8	1
133	Electronic Origin of Oxygen Transport Behavior in La-Based Perovskites: A Density Functional Theory Study. Journal of Physical Chemistry C, 2019, 123, 275-290.	1.5	25
134	Balancing the Microâ€Mesoporosity for Activity Maximization of Nâ€Doped Carbonaceous Electrocatalysts for the Oxygen Reduction Reaction. ChemSusChem, 2019, 12, 1017-1025.	3.6	53
135	Enhanced stability for propene epoxidation with H2 and O2 over wormhole-like hierarchical TS-1 supported Au nanocatalyst. Chemical Engineering Journal, 2019, 377, 119954.	6.6	46
136	Fabricating ZSM-23 with reduced aspect ratio through ball-milling and recrystallization: Synthesis, structure and catalytic performance in N-heptane hydroisomerization. Catalysis Today, 2019, 329, 82-93.	2.2	27
137	Kinetics Insights and Active Sites Discrimination of Pd-Catalyzed Selective Hydrogenation of Acetylene. Industrial & Engineering Chemistry Research, 2019, 58, 1888-1895.	1.8	34
138	A comprehensive kinetics study on non-isothermal pyrolysis of kerogen from Green River oil shale. Chemical Engineering Journal, 2019, 377, 120275.	6.6	46
139	Pore network modeling of catalyst deactivation by coking, from single site to particle, during propane dehydrogenation. AICHE Journal, 2019, 65, 140-150.	1.8	43
140	Improved selectivity and coke resistance of core-shell alloy catalysts for propane dehydrogenation from first principles and microkinetic analysis. Chemical Engineering Journal, 2019, 377, 120049.	6.6	42
141	Charge-Tuned CO Activation over a Ï‡-Fe₅C₂ Fischerâ€“Tropsch Catalyst. ACS Catalysis, 2018, 8, 2709-2714.	5.5	70
142	Effects of zeolite particle size and internal grain boundaries on Pt/Beta catalyzed isomerization of n-pentane. Journal of Catalysis, 2018, 360, 152-159.	3.1	76
143	Synthesis of Nanosized SAPO-34 via an Azeotrope Evaporation and Dry Gel Conversion Route and Its Catalytic Performance in Chloromethane Conversion. Industrial & Engineering Chemistry Research, 2018, 57, 548-558.	1.8	19
144	Effects of methylating agent and BrÃ¸nsted acidity on methylation activity of olefins in CHA-structured zeolites: A periodic DFT study. Molecular Catalysis, 2018, 446, 106-114.	1.0	4

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145	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. Applied Catalysis B: Environmental, 2018, 233, 143-159.	10.8	79
146	Decoding Atomic-Level Structures of the Interface between Pt Sub-nanocrystals and Nanostructured Carbon. Journal of Physical Chemistry C, 2018, 122, 7166-7178.	1.5	4
147	Structural and kinetic insights into Pt/CNT catalysts during hydrogen generation from ammonia borane. Chemical Engineering Science, 2018, 192, 1242-1251.	1.9	31
148	Manipulating Gold Spatial Location on Titanium Silicalite-1 To Enhance the Catalytic Performance for Direct Propene Epoxidation with H₂ and O₂. ACS Catalysis, 2018, 8, 10649-10657.	5.5	44
149	Influence of tubular reactor structure and operating conditions on dry reforming of methane. Chemical Engineering Research and Design, 2018, 139, 39-51.	2.7	23
150	Manipulating the mesostructure of silicoaluminophosphate SAPO-11 via tumbling-assisted, oriented assembly crystallization: a pathway to enhance selectivity in hydroisomerization. Catalysis Science and Technology, 2018, 8, 5044-5061.	2.1	29
151	SbO_xâ€promoted pt nanoparticles supported on CNTs as catalysts for baseâ€free oxidation of glycerol to dihydroxyacetone. AIChE Journal, 2018, 64, 3979-3987.	1.8	23
152	The urea-barbituric acid polymorphic co-crystal system: Characterization, thermodynamics and crystallization. Journal of Crystal Growth, 2018, 502, 45-53.	0.7	11
153	Design, modeling, and optimization of a lightweight MeOH-to-H2 processor. International Journal of Hydrogen Energy, 2018, 43, 14451-14465.	3.8	10
154	Boosting Sizeâ€Selective Hydrogen Combustion in the Presence of Propene Using Controllable Metal Clusters Encapsulated in Zeolite. Angewandte Chemie, 2018, 130, 9918-9922.	1.6	4
155	Enhanced Catalytic Performance for Propene Epoxidation with H₂ and O₂ over Bimetallic Auâ€“Ag/Uncalcined Titanium Silicate-1 Catalysts. ACS Catalysis, 2018, 8, 7799-7808.	5.5	94
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