De Chen

List of Publications by Year
in descending order

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		8755	21843
414	20,748	77	118
papers	citations	h-index	g-index

427	427	427	18008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Insights into the confinement effect on isobutane alkylation with C4 olefin catalyzed by zeolite catalyst: A combined theoretical and experimental study. Chinese Journal of Chemical Engineering, 2022, 47, 174-184.	1.7	7
3	Microkinetic model validation for Fischer-Tropsch synthesis at methanation conditions based on steady state isotopic transient kinetic analysis. Journal of Industrial and Engineering Chemistry, 2022, 105, 191-209.	2.9	8
4	Promotional effects of sodium and sulfur on light olefins synthesis from syngas over iron-manganese catalyst. Applied Catalysis B: Environmental, 2022, 300, 120716.	10.8	14
5	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
6	Dual Role of Pyridinic-N Doping in Carbon-Coated Ni Nanoparticles for Highly Efficient Electrochemical CO₂ Reduction to CO over a Wide Potential Range. ACS Catalysis, 2022, 12, 1364-1374.	5.5	73
7	Molecularâ€Level Insights into the Notorious CO Poisoning of Platinum Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
8	PO₄^{3â^’} Coordinated Robust Singleâ€Atom Platinum Catalyst for Selective Polyol Oxidation**. Angewandte Chemie, 2022, 134, .	1.6	21
9	PO₄^{3â^’} Coordinated Robust Singleâ€Atom Platinum Catalyst for Selective Polyol Oxidation**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	51
10	Computer-aided bimetallic catalyst screening for ester selective hydrogenation. Catalysis Science and Technology, 2022, 12, 2761-2765.	2.1	2
11	Taming Electrons in Pt/C Catalysts to Boost the Mesokinetics of Hydrogen Production. Engineering, 2022, 14, 124-133.	3.2	1
12	Effects of Support and CO₂ on the Performances of Vanadium Oxide-Based Catalysts in Propane Dehydrogenation. ACS Catalysis, 2022, 12, 5736-5749.	5.5	14
13	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
14	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
15	A new approach of kinetic modeling: Kinetically consistent energy profile and rate expression analysis. Chemical Engineering Journal, 2022, 444, 136685.	6.6	5
16	Kinetic insights into the effect of promoters on Co/Al2O3 for Fischer-Tropsch synthesis. Chemical Engineering Journal, 2022, 445, 136655.	6.6	13
17	One-step leap in achieving oil-to-chemicals by using a two-stage riser reactor: Molecular-level process model and multi-objective optimization strategy. Chemical Engineering Journal, 2022, 444, 136684.	6.6	23
18	Reactant adsorption modulation by Fe and K in Pt catalyst for highly effective CO preferential oxidation in practical conditions. Chemical Engineering Journal, 2022, 444, 136661.	6.6	13

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19	Facet-Induced Strong Metal Chlorideâ"Support Interaction over CuCl₂/β-Al₂O₃ Catalyst to Enhance Ethylene Oxychlorination Performance. ACS Catalysis, 2022, 12, 8027-8037.	5.5	9
20	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
21	Engineering Electronic Platinumâ€"Carbon Support Interaction to Tame Carbon Monoxide Activation. Fundamental Research, 2022, , .	1.6	2
22	Engineering the efficient three-dimension hollow cubic carbon from vacuum residuum with enhanced mass transfer ability towards H2O2 production. Chinese Journal of Chemical Engineering, 2021, 38, 98-105.	1.7	1
23	Electrochemical syngas production from CO2 and water with CNT supported ZnO catalysts. Catalysis Today, 2021, 364, 172-181.	2.2	7
24	Effects of metal dusting relevant exposures of alloy 601 surfaces on carbon formation and oxide development. Catalysis Today, 2021, 369, 48-61.	2.2	8
25	Support effects of Cs/Al2O3 catalyzed aldol condensation of methyl acetate with formaldehyde. Catalysis Today, 2021, 365, 310-317.	2.2	27
26	Unleash electron transfer in Câ€"H functionalization by mesoporous carbon-supported palladium interstitial catalysts. National Science Review, 2021, 8, nwaa126.	4.6	23
27	Development of polyethylenimine (PEI)-impregnated mesoporous carbon spheres for low-concentration CO2 capture. Catalysis Today, 2021, 369, 69-76.	2.2	20
28	Tailoring catalytic properties of V2O3 to propane dehydrogenation through single-atom doping: A DFT study. Catalysis Today, 2021, 368, 46-57.	2.2	29
29	Insight into the basic strength-dependent catalytic performance in aqueous phase oxidation of glycerol to glyceric acid. Chemical Engineering Science, 2021, 230, 116191.	1.9	18
30	Boost oxygen reduction reaction performance by tuning the active sites in Fe-N-P-C catalysts. Journal of Energy Chemistry, 2021, 55, 572-579.	7.1	29
31	Understanding of K and Mg co-promoter effect in ethylene oxychlorination by operando UVâ€"vis-NIR spectroscopy. Catalysis Today, 2021, 369, 227-234.	2.2	11
32	Kinetic modeling of dynamic changing active sites in a Mars-van Krevelen type reaction: Ethylene oxychlorination on K-doped CuCl2/Al2O3. Chemical Engineering Journal, 2021, 407, 128013.	6.6	9
33	Prediction and Tuning of the Defects in the Redox Catalysts: Ethylene Oxychlorination. ChemCatChem, 2021, 13, 221-226.	1.8	4
34	Engineering Pt-Mn2O3 interface to boost selective oxidation of ethylene glycol to glycolic acid. Applied Catalysis B: Environmental, 2021, 284, 119803.	10.8	40
35	The preparation of three-dimensional binder-free polyaniline/aligned carbon nanotube on flexible etched Al foil substrate as high-performance pseudocapacitive cathode for nonaqueous lithium-ion capacitor. Journal of Energy Storage, 2021, 33, 102165.	3.9	5
36	Reversing Titanium Oligomer Formation towards Highâ€Efficiency and Green Synthesis of Titaniumâ€Containing Molecular Sieves. Angewandte Chemie, 2021, 133, 3485-3490.	1.6	2

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37	Reversing Titanium Oligomer Formation towards Highâ€Efficiency and Green Synthesis of Titaniumâ€Containing Molecular Sieves. Angewandte Chemie - International Edition, 2021, 60, 3443-3448.	7.2	58
38	Producing glyceric acid from glycerol via integrating vacuum dividing wall columns: conceptual process design and techno-economic-environmental analysis. Green Chemistry, 2021, 23, 3664-3676.	4.6	24
39	Tandem Hydrodeoxygenation Catalyst System for Hydrocarbons Production from Simulated Bio-oil: Effect of Câ€“C Coupling Catalysts. Industrial & Engineering Chemistry Research, 2021, 60, 2136-2143.	1.8	5
40	Câ€“H bond activation in light alkanes: a theoretical perspective. Chemical Society Reviews, 2021, 50, 4299-4358.	18.7	144
41	Unraveling Enhanced Activity, Selectivity, and Coke Resistance of Ptâ€“Ni Bimetallic Clusters in Dry Reforming. ACS Catalysis, 2021, 11, 2398-2411.	5.5	83
42	On the Redox Mechanism of Lowâ€Temperature NH₃â€SCR over Cuâ€CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. Angewandte Chemie, 2021, 133, 7273-7280.	1.6	15
43	On the Redox Mechanism of Lowâ€Temperature NH₃â€SCR over Cuâ€CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. Angewandte Chemie - International Edition, 2021, 60, 7197-7204.	7.2	77
44	Autothermal Gas-Phase Oxidative Dehydrogenation of Ethane to Ethylene at Atmospheric Pressure. Industrial & Engineering Chemistry Research, 2021, 60, 6784-6802.	1.8	5
45	Effects of alumina phases on the structure and performance of VOx/Al2O3 catalysts in non-oxidative propane dehydrogenation. Molecular Catalysis, 2021, 504, 111466.	1.0	12
46	Design and tailoring of advanced catalytic process for light alkanes upgrading. EcoMat, 2021, 3, e12095.	6.8	10
47	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
48	Mesoporogen-Free Strategy to Construct Hierarchical TS-1 in a Highly Concentrated System for Gas-Phase Propene Epoxidation with H₂ and O₂. ACS Applied Materials & Interfaces, 2021, 13, 26134-26142.	4.0	22
49	Tailoring Facets of Î±-Mn₂O₃ Microcrystalline Catalysts for Enhanced Selective Oxidation of Glycerol to Glycolic Acid. ACS Catalysis, 2021, 11, 6371-6383.	5.5	64
50	Engineering Ru atomic structures toward enhanced kinetics of hydrogen generation. Chemical Engineering Science, 2021, 235, 116507.	1.9	6
51	Regulating light olefins or aromatics production in ex-situ catalytic pyrolysis of biomass by engineering the structure of tin modified ZSM-5 catalyst. Bioresource Technology, 2021, 330, 124975.	4.8	25
52	Kinetics decoupling activity and selectivity of Pt nanocatalyst for enhanced glycerol oxidation performance. AICHE Journal, 2021, 67, e17339.	1.8	5
53	Hierarchical trimetallic Co-Ni-Fe oxides derived from core-shell structured metal-organic frameworks for highly efficient oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 287, 119953.	10.8	175
54	Insights of the Dynamic Copper Active Sites in Ethylene Oxychlorination Studied by the Multivariate UVâ€“visâ€“NIR Resolution Kinetic Approach. Industrial & Engineering Chemistry Research, 2021, 60, 9437-9447.	1.8	7

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55	Microscopic Insight to Nonlinear Voltage Dependence of Charge in Carbon-Ionic Liquid Supercapacitors. Energy Material Advances, 2021, 2021, .	4.7	7
56	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
57	High-Throughput Screening of Alloy Catalysts for Dry Methane Reforming. ACS Catalysis, 2021, 11, 8881-8894.	5.5	47
58	Glycolic Acid Production from Ethylene Glycol via Sustainable Biomass Energy: Integrated Conceptual Process Design and Comparative Techno-economicâ€“Societyâ€“Environment Analysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 10948-10962.	3.2	25
59	Partial positively charged Pt in Pt/MgAl2O4 for enhanced dehydrogenation activity. Applied Catalysis B: Environmental, 2021, 288, 119996.	10.8	44
60	Mechanism-guided elaboration of ternary Auâ€“Tiâ€“Si sites to boost propylene oxide formation. Chem Catalysis, 2021, 1, 885-895.	2.9	21
61	Rationally constructed Ti sites of TS-1 for epoxidation reactions. Science Bulletin, 2021, 66, 1945-1949.	4.3	19
62	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
63	Versatile One-Pot Tandem Conversion of Biomass-Derived Light Oxygenates into High-Yield Jet Fuel Range Aromatics. Industrial & Engineering Chemistry Research, 2021, 60, 15095-15105.	1.8	3
64	Polyphenylene Sulfideâ€Based Solidâ€State Separator for Limited Li Metal Battery. Small, 2021, 17, e2104365.	5.2	12
65	Molecular-level insights into the electronic effects in platinum-catalyzed carbon monoxide oxidation. Nature Communications, 2021, 12, 6888.	5.8	18
66	Descriptor-Based Microkinetic Modeling and Catalyst Screening for CO Hydrogenation. ACS Catalysis, 2021, 11, 14545-14560.	5.5	8
67	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
68	Structural stability of Lanthanum-based oxygen-deficient perovskites in redox catalysis: A density functional theory study. Catalysis Today, 2020, 347, 142-149.	2.2	18
69	Electrochemical reduction of CO2 to synthesis gas on CNT supported CuxZn1-x O catalysts. Catalysis Today, 2020, 357, 311-321.	2.2	22
70	Understanding effects of Ni particle size on steam methane reforming activity by combined experimental and theoretical analysis. Catalysis Today, 2020, 355, 139-147.	2.2	32
71	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
72	Shape selectivity in acidic zeolite catalyzed 2-pentene skeletal isomerization from first principles. Catalysis Today, 2020, 347, 115-123.	2.2	7

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73	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
74	Active sites of Pt/CNTs nanocatalysts for aerobic base-free oxidation of glycerol. Green Energy and Environment, 2020, 5, 76-82.	4.7	22
75	High Peel Strength and Flexible Aligned Carbon Nanotubes/Etched Al Foil Composites with Boosted Supercapacitor and Thermal Dissipation Performances. Industrial & Engineering Chemistry Research, 2020, 59, 1549-1558.	1.8	3
76	Hydrogen dependence of the reaction mechanism and kinetics of water gas shift reaction on Ni catalyst: Experimental and DFT study. Applied Catalysis B: Environmental, 2020, 264, 118430.	10.8	32
77	Boosting gravimetric and volumetric energy density of supercapacitors by 3D pomegranate-like porous carbon structure design. Applied Surface Science, 2020, 534, 147613.	3.1	23
78	Size Dependence of Pt Catalysts for Propane Dehydrogenation: from Atomically Dispersed to Nanoparticles. ACS Catalysis, 2020, 10, 12932-12942.	5.5	144
79	Cu-Promoted Iron Catalysts Supported on Nanorod-Structured Mn-Ce Mixed Oxides for Higher Alcohol Synthesis from Syngas. Catalysts, 2020, 10, 1124.	1.6	7
80	Critical Review of Catalysis for Ethylene Oxychlorination. ACS Catalysis, 2020, 10, 9299-9319.	5.5	28
81	Enhancing the dynamic electron transfer of Au species on wormhole-like TS-1 for boosting propene epoxidation performance with H2 and O2. Green Energy and Environment, 2020, 5, 433-443.	4.7	28
82	Hydrogenation of CO to olefins over a supported iron catalyst on MgAl₂O₄ spinel: effects of the spinel synthesis method. RSC Advances, 2020, 10, 40815-40829.	1.7	7
83	Beyond the Reverse Horiutiâ€“Polanyi Mechanism in Propane Dehydrogenation over Pt Catalysts. ACS Catalysis, 2020, 10, 14887-14902.	5.5	44
84	Dense integration of solvent-free electrodes for Li-ion supercabattery with boosted low temperature performance. Journal of Power Sources, 2020, 473, 228553.	4.0	22
85	Nitrogenâ€Doped Carbonâ€Assisted Oneâ€pot Tandem Reaction for Vinyl Chloride Production via Ethylene Oxychlorination. Angewandte Chemie - International Edition, 2020, 59, 22080-22085.	7.2	18
86	Nitrogenâ€Doped Carbonâ€Assisted Oneâ€pot Tandem Reaction for Vinyl Chloride Production via Ethylene Oxychlorination. Angewandte Chemie, 2020, 132, 22264-22269.	1.6	3
87	Boosting the Utilization and Electrochemical Performances of Polyaniline by Forming a Binder-Free Nanoscale Coaxially Coated Polyaniline/Carbon Nanotube/Carbon Fiber Paper Hierarchical 3D Microstructure Composite as a Supercapacitor Electrode. ACS Omega, 2020, 5, 22119-22130.	1.6	9
88	Gold catalysts containing interstitial carbon atoms boost hydrogenation activity. Nature Communications, 2020, 11, 4600.	5.8	38
89	Atomic Insights into Robust Ptâ€“PdO Interfacial Site-Boosted Hydrogen Generation. ACS Catalysis, 2020, 10, 11417-11429.	5.5	19
90	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

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91	Mechanism investigation and catalyst screening of high-temperature reverse water gas shift reaction. Green Chemical Engineering, 2020, 1, 131-139.	3.3	8
92	Engineering three-layer coreâ€“shell S-1/TS-1@dendritic-SiO2 supported Au catalysts towards improved performance for propene epoxidation with H2 and O2. Green Energy and Environment, 2020, 5, 473-483.	4.7	30
93	Cluster-Size-Dependent Interaction between Ethylene and CuCl₂ Clusters Supported via Î³-Alumina. Journal of Physical Chemistry C, 2020, 124, 10430-10440.	1.5	16
94	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
95	Effective Iron Catalysts Supported on Mixed MgOâ€“Al₂O₃ for Fischerâ€“Tropsch Synthesis to Olefins. Industrial & Engineering Chemistry Research, 2020, 59, 11462-11474.	1.8	16
96	Boosting Specific Energy and Power of Carbon-Ionic Liquid Supercapacitors by Engineering Carbon Pore Structures. Frontiers in Chemistry, 2020, 8, 6.	1.8	5
97	Synergistic Pt-WO3 Dual Active Sites to Boost Hydrogen Production from Ammonia Borane. IScience, 2020, 23, 100922.	1.9	35
98	Tuning reactivity of Fischerâ€“Tropsch synthesis by regulating TiOx overlayer over Ru/TiO2 nanocatalysts. Nature Communications, 2020, 11, 3185.	5.8	114
99	On the nature of Pt-carbon interactions for enhanced hydrogen generation. Journal of Catalysis, 2020, 389, 492-501.	3.1	17
100	Understanding the mechanism of CO2 reforming of methane to syngas on Ni@Pt surface compared with Ni(1Â1Â1) and Pt(1Â1Â1). Applied Surface Science, 2020, 513, 145840.	3.1	37
101	Exploring the Reaction Paths in the Consecutive Fe-Based FT Catalystâ€“Zeolite Process for Syngas Conversion. ACS Catalysis, 2020, 10, 3797-3806.	5.5	37
102	Insight into Size- and Metal-Dependent Activity and the Mechanism for Steam Methane Re-forming in Nanocatalysis. Journal of Physical Chemistry C, 2020, 124, 2501-2512.	1.5	19
103	Direct conversion of syngas to aromatics: A review of recent studies. Chinese Journal of Catalysis, 2020, 41, 561-573.	6.9	55
104	New mechanism insights into methane steam reforming on Pt/Ni from DFT and experimental kinetic study. Fuel, 2020, 266, 117143.	3.4	86
105	Effects of Oxygen Mobility in Laâ€“Fe-Based Perovskites on the Catalytic Activity and Selectivity of Methane Oxidation. ACS Catalysis, 2020, 10, 3707-3719.	5.5	132
106	The effect of co-feeding ethene on Fischer-Tropsch synthesis to olefins over Co-based catalysts. Applied Catalysis A: General, 2020, 598, 117564.	2.2	9
107	Origin of potassium promotion effects on CuCl2/Î³-Al2O3 catalyzed ethylene oxychlorination. Applied Surface Science, 2020, 521, 146310.	3.1	9
108	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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109	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
110	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
111	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
112	Effect of oxide additives on the hydrotalcite derived Ni catalysts for CO2 reforming of methane. Chemical Engineering Journal, 2019, 377, 119763.	6.6	97
113	Towards rational catalyst design: boosting the rapid prediction of transition-metal activity by improved scaling relations. Physical Chemistry Chemical Physics, 2019, 21, 19269-19280.	1.3	29
114	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
115	Highly selective CO removal by sorption enhanced Boudouard reaction for hydrogen production. Catalysis Science and Technology, 2019, 9, 4100-4107.	2.1	15
116	Origin of Chemisorption Energy Scaling Relations over Perovskite Surfaces. Journal of Physical Chemistry C, 2019, 123, 28275-28283.	1.5	11
117	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
118	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
119	Methane Activation on Bimetallic Catalysts: Properties and Functions of Surface Niâ^'Ag Alloy. ChemCatChem, 2019, 11, 3401-3412.	1.8	16
120	Investigation of C1 + C1 Coupling Reactions in Cobalt-Catalyzed Fischer-Tropsch Synthesis by a Combined DFT and Kinetic Isotope Study. Catalysts, 2019, 9, 551.	1.6	15
121	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
122	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
123	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
124	Boosting the electrochemical performance through proton transfer for the Zn-ion hybrid supercapacitor with both ionic liquid and organic electrolytes. Journal of Materials Chemistry A, 2019, 7, 9708-9715.	5.2	111
125	Atomically dispersed Fe-N-P-C complex electrocatalysts for superior oxygen reduction. Applied Catalysis B: Environmental, 2019, 249, 306-315.	10.8	85
126	BEEF-vdW+U method applied to perovskites: thermodynamic, structural, electronic, and magnetic properties. Journal of Physics Condensed Matter, 2019, 31, 145901.	0.7	11

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127	Optimising surface d charge of AuPd nanoalloy catalysts for enhanced catalytic activity. Nature Communications, 2019, 10, 1428.	5.8	149
128	Reaction mechanism and kinetics for Pt/CNTs catalyzed base-free oxidation of glycerol. Chemical Engineering Science, 2019, 203, 228-236.	1.9	32
129	Promotional effect of in situ generated hydroxyl on olefin selectivity of Co-catalyzed Fischerâ€“Tropsch synthesis. Physical Chemistry Chemical Physics, 2019, 21, 24441-24448.	1.3	6
130	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
131	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
132	Sustainable and Atomically Dispersed Iron Electrocatalysts Derived from Nitrogenâ€•and Phosphorusâ€Modified Woody Biomass for Efficient Oxygen Reduction. Advanced Materials Interfaces, 2019, 6, 1801623.	1.9	22
133	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
134	Effect of trace potassium on hydrogen adsorption and dissociation on hcp cobalt: A density functional theory study. Surface Science, 2019, 681, 24-31.	0.8	9
135	Kinetics Insights and Active Sites Discrimination of Pd-Catalyzed Selective Hydrogenation of Acetylene. Industrial & Engineering Chemistry Research, 2019, 58, 1888-1895.	1.8	34
136	A comprehensive kinetics study on non-isothermal pyrolysis of kerogen from Green River oil shale. Chemical Engineering Journal, 2019, 377, 120275.	6.6	46
137	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
138	Charge-Tuned CO Activation over a Ï‡-Fe₅C₂ Fischerâ€“Tropsch Catalyst. ACS Catalysis, 2018, 8, 2709-2714.	5.5	70
139	Ternary interfacial superstructure enabling extraordinary hydrogen evolution electrocatalysis. Materials Today, 2018, 21, 602-610.	8.3	48
140	Production of high pressure pure H2 by pressure swing sorption enhanced steam reforming (PS-SESR) of byproducts in biorefinery. Applied Energy, 2018, 222, 595-607.	5.1	10
141	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
142	Structural and kinetic insights into Pt/CNT catalysts during hydrogen generation from ammonia borane. Chemical Engineering Science, 2018, 192, 1242-1251.	1.9	31
143	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
144	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

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145	Insights into the synergy between recyclable magnetic Fe3O4 and zeolite for catalytic aquathermolysis of heavy crude oil. Applied Surface Science, 2018, 456, 140-146.	3.1	36
146	Towards high activity of hydrogen production from ammonia borane over efficient non-noble Ni5P4 catalyst. International Journal of Hydrogen Energy, 2018, 43, 17112-17120.	3.8	22
147	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
148	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
149	Tailoring of Fe/MnK-CNTs Composite Catalysts for the Fischerâ€“Tropsch Synthesis of Lower Olefins from Syngas. Industrial & Engineering Chemistry Research, 2018, 57, 11554-11560.	1.8	21
150	Boosting Sizeâ€Selective Hydrogen Combustion in the Presence of Propene Using Controllable Metal Clusters Encapsulated in Zeolite. Angewandte Chemie - International Edition, 2018, 57, 9770-9774.	7.2	34
151	Coke Formation on Ptâ€“Sn/Al₂O₃ Catalyst for Propane Dehydrogenation. Industrial & Engineering Chemistry Research, 2018, 57, 8647-8654.	1.8	106
152	Nitrogenâ€doped Carbon Nanofibers for the Oxygen Reduction Reaction: Importance of the Iron Growth Catalyst Phase. ChemCatChem, 2017, 9, 1663-1674.	1.8	17
153	Steam methane reforming on a Ni-based bimetallic catalyst: density functional theory and experimental studies of the catalytic consequence of surface alloying of Ni with Ag. Catalysis Science and Technology, 2017, 7, 1713-1725.	2.1	55
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