

Xinhe Bao

List of Publications by Year in descending order

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723
papers

63,765
citations

643

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755
all docs

755
docs citations

755
times ranked

43538
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-enhanced thermoelectric output power in CrN/SrTiO ₃ heterostructure. Journal of Energy Chemistry, 2022, 64, 16-22.	12.9	10
2	DNP NMR reveals the hidden surface C-C bond growth mechanism over ZnAlO during syngas conversion. Journal of Energy Chemistry, 2022, 67, 640-644.	12.9	7
3	A Reconstructed Cu ₂ P ₂ O ₇ Catalyst for Selective CO ₂ Electroreduction to Multicarbon Products. Angewandte Chemie - International Edition, 2022, 61, e202114238.	13.8	71
4	A mechanistic study of syngas conversion to light olefins over OXZEO bifunctional catalysts: insights into the initial carbon-carbon bond formation on the oxide. Catalysis Science and Technology, 2022, 12, 1289-1295.	4.1	13
5	Dynamic Structural Changes of Iron Oxide Nanostructures On Cu(111). Journal of Physical Chemistry C, 2022, 126, 2041-2048.	3.1	3
6	Tandem catalytic methylation of naphthalene using CO ₂ and H ₂ . Chemical Communications, 2022, 58, 3779-3782.	4.1	0
7	Dynamic chemical processes on ZnO surfaces tuned by physisorption under ambient conditions. Journal of Energy Chemistry, 2022, , .	12.9	3
8	Direct Synthesis of Isoparaffin-rich Gasoline from Syngas. ACS Energy Letters, 2022, 7, 1462-1468.	17.4	11
9	Overtuning CO ₂ Hydrogenation Selectivity with High Activity via Reaction-Induced Strong Metal-Support Interactions. Journal of the American Chemical Society, 2022, 144, 4874-4882.	13.7	139
10	Electrochemical synthesis of catalytic materials for energy catalysis. Chinese Journal of Catalysis, 2022, 43, 1001-1016.	14.0	23
11	Modulating the Formation and Evolution of Surface Hydrogen Species on ZnO through Cr Addition. ACS Catalysis, 2022, 12, 6255-6264.	11.2	15
12	Steering the reaction pathway of syngas-to-light olefins with coordination unsaturated sites of ZnGaOx spinel. Nature Communications, 2022, 13, 2742.	12.8	24
13	Dynamic transformation between bilayer islands and dinuclear clusters of Cr oxide on Au(111) through environment and interface effects. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
14	Modulated hydrocarbon distribution of gasoline deriving from butene conversion in the presence of syngas. Journal of Energy Chemistry, 2022, , .	12.9	5
15	The "energy revolution" calls for technological innovation. National Science Review, 2022, 9, .	9.5	3
16	Oxygenate-based routes regulate syngas conversion over oxide-zeolite bifunctional catalysts. Nature Catalysis, 2022, 5, 594-604.	34.4	22
17	Probing active species for CO hydrogenation over ZnCr ₂ O ₄ catalysts. Chinese Journal of Catalysis, 2022, 43, 2017-2025.	14.0	4
18	In situ reconstruction of defect-rich SnO ₂ through an analogous disproportionation process for CO ₂ electroreduction. Chemical Engineering Journal, 2022, 446, 137444.	12.7	7

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19	Enhanced formation of multi-branched isoparaffins in syngas conversion by ZnCrOx-MCM-22 composites. Applied Catalysis B: Environmental, 2022, 316, 121628.	20.2	5
20	Direct experimental detection of hydrogen radicals in non-oxidative methane catalytic reaction. Journal of Energy Chemistry, 2021, 52, 372-376.	12.9	16
21	Atomic structures and electronic properties of Cr-doped ZnO() surfaces. Chinese Journal of Catalysis, 2021, 42, 971-979.	14.0	10
22	High-Field One-Dimensional and Two-Dimensional ²⁷ Al Magic-Angle Spinning Nuclear Magnetic Resonance Study of \hat{I}_z , \hat{I}_x , and \hat{I}^3 -Al ₂ O ₃ Dominated Aluminum Oxides: Toward Understanding the Al Sites in \hat{I}^3 -Al ₂ O ₃ . ACS Omega, 2021, 6, 4090-4099.	3.5	29
23	Scalable and fast fabrication of graphene integrated micro-supercapacitors with remarkable volumetric capacitance and flexibility through continuous centrifugal coating. Journal of Energy Chemistry, 2021, 52, 284-290.	12.9	22
24	Electrochemical CO ₂ reduction on graphdiyne: a DFT study. Green Chemistry, 2021, 23, 1212-1219.	9.0	42
25	Selective synthesis of <i>para</i> -xylene and light olefins from CO ₂ /H ₂ in the presence of toluene. Catalysis Science and Technology, 2021, 11, 4521-4528.	4.1	18
26	Structure Sensitivity in Single-Atom Catalysis toward CO ₂ Electroreduction. ACS Energy Letters, 2021, 6, 713-727.	17.4	149
27	Activation of CO over Ultrathin Manganese Oxide Layers Grown on Au(111). ACS Catalysis, 2021, 11, 849-857.	11.2	23
28	Design of Lewis Pairs via Interface Engineering of Oxide-Metal Composite Catalyst for Water Activation. Journal of Physical Chemistry Letters, 2021, 12, 1443-1452.	4.6	18
29	Oxidation-induced structural transition of two-dimensional iron oxide on Au(111). Journal Physics D: Applied Physics, 2021, 54, 204003.	2.8	7
30	Acidity and Local Confinement Effect in Mordenite Probed by Solid-State NMR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 2413-2422.	4.6	17
31	In situ identification of the metallic state of Ag nanoclusters in oxidative dispersion. Nature Communications, 2021, 12, 1406.	12.8	42
32	Sulfur vacancy-rich MoS ₂ as a catalyst for the hydrogenation of CO ₂ to methanol. Nature Catalysis, 2021, 4, 242-250.	34.4	308
33	Recent progress in dipolar recoupling techniques under fast MAS in solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2021, 112, 101711.	2.3	17
34	Predominance of Subsurface and Bulk Oxygen Vacancies in Reduced Manganese Oxide. Journal of Physical Chemistry C, 2021, 125, 7990-7998.	3.1	6
35	Oxidative Strong Metal-Support Interactions between Metals and Inert Boron Nitride. Journal of Physical Chemistry Letters, 2021, 12, 4187-4194.	4.6	35
36	High-Rate CO ₂ Electroreduction to C ₂₊ Products over a Copper-Copper Iodide Catalyst. Angewandte Chemie - International Edition, 2021, 60, 14329-14333.	13.8	177

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37	Oxideâ€Zeolite-Based Composite Catalyst Concept That Enables Syngas Chemistry beyond Fischerâ€Tropsch Synthesis. <i>Chemical Reviews</i> , 2021, 121, 6588-6609.	47.7	180
38	A Career in Catalysis: Robert SchlÃ¶gl. <i>ACS Catalysis</i> , 2021, 11, 6243-6260.	11.2	2
39	A vanadium-doped BSCF perovskite for CO ₂ electrolysis in solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19814-19821.	7.1	17
40	Effects of Proximity-Dependent Metal Migration on Bifunctional Composites Catalyzed Syngas to Olefins. <i>ACS Catalysis</i> , 2021, 11, 9729-9737.	11.2	41
41	Exploring the phase transformation in ZnO/Cu(111) model catalysts in CO ₂ hydrogenation. <i>Journal of Energy Chemistry</i> , 2021, 60, 150-155.	12.9	16
42	Promoting exsolution of RuFe alloy nanoparticles on Sr ₂ Fe _{1.4} Ru _{0.1} Mo _{0.5} O ₆ via repeated redox manipulations for CO ₂ electrolysis. <i>Nature Communications</i> , 2021, 12, 5665.	12.8	102
43	Scalable fabrication of in-plane microscale self-powered integrated systems for fast-response and highly selective dual-channel gas detection. <i>Nano Energy</i> , 2021, 88, 106253.	16.0	13
44	Accurate heteronuclear distance measurements at all magic-angle spinning frequencies in solid-state NMR spectroscopy. <i>Chemical Science</i> , 2021, 12, 11554-11564.	7.4	12
45	Temperatureâ€Dependent CO ₂ Electroreduction over Feâ€Nâ€C and Niâ€Nâ€C Singleâ€Atom Catalysts. <i>Angewandte Chemie</i> , 2021, 133, 26786-26790.	2.0	11
46	Temperatureâ€Dependent CO ₂ Electroreduction over Feâ€Nâ€C and Niâ€Nâ€C Singleâ€Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26582-26586.	13.8	57
47	Electron penetration triggering interface activity of Pt-graphene for CO oxidation at room temperature. <i>Nature Communications</i> , 2021, 12, 5814.	12.8	37
48	Inorganic Catalysis for Methane Conversion to Chemicals. , 2021, , .		0
49	Achieving flexible large-scale reactivity tuning by controlling the phase, thickness and support of two-dimensional ZnO. <i>Chemical Science</i> , 2021, 12, 15284-15290.	7.4	3
50	Electrochemical CO ₂ Reduction Reaction on 3d Transition Metal Single-Atom Catalysts Supported on Graphdiyne: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26013-26020.	3.1	38
51	Scalable fabrication of printed Zn//MnO ₂ planar micro-batteries with high volumetric energy density and exceptional safety. <i>National Science Review</i> , 2020, 7, 64-72.	9.5	148
52	Glass-like electronic and thermal transport in crystalline cubic germanium selenide. <i>Journal of Energy Chemistry</i> , 2020, 45, 83-90.	12.9	16
53	Active sites for H ₂ and H ₂ O activation over bifunctional ZnO-Pt(1â€1â€1) model catalysts. <i>Applied Surface Science</i> , 2020, 503, 144204.	6.1	6
54	In Situ Investigation of Reversible Exsolution/Dissolution of CoFe Alloy Nanoparticles in a Coâ€Doped Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ Cathode for CO ₂ Electrolysis. <i>Advanced Materials</i> , 2020, 32, e1906193.	21.0	185

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55	Highly efficient H ₂ production from H ₂ S via a robust graphene-encapsulated metal catalyst. <i>Energy and Environmental Science</i> , 2020, 13, 119-126.	30.8	113
56	Visualizing Formation of Tungsten Carbide Model Catalyst and its Interaction with Oxygen. <i>ChemCatChem</i> , 2020, 12, 1036-1045.	3.7	4
57	Catalysis for Selected C1 Chemistry. <i>CheM</i> , 2020, 6, 2497-2514.	11.7	148
58	CO ₂ electrolysis at industrial current densities using anion exchange membrane based electrolyzers. <i>Science China Chemistry</i> , 2020, 63, 1711-1715.	8.2	25
59	Enhancing CO ₂ Electroreduction to Methane with a Cobalt Phthalocyanine and Zinc-Nitrogen-Carbon Tandem Catalyst. <i>Angewandte Chemie</i> , 2020, 132, 22594-22599.	2.0	12
60	Enhancing CO ₂ Electroreduction to Methane with a Cobalt Phthalocyanine and Zinc-Nitrogen-Carbon Tandem Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22408-22413.	13.8	145
61	Reaction-Induced Strong Metal-Support Interactions between Metals and Inert Boron Nitride Nanosheets. <i>Journal of the American Chemical Society</i> , 2020, 142, 17167-17174.	13.7	164
62	Role of SAPO-18 Acidity in Direct Syngas Conversion to Light Olefins. <i>ACS Catalysis</i> , 2020, 10, 12370-12375.	11.2	47
63	Tunable deep ultraviolet laser based near ambient pressure photoemission electron microscope for surface imaging in the millibar regime. <i>Review of Scientific Instruments</i> , 2020, 91, 113704.	1.3	5
64	Synergetic enhancement of thermoelectric performance in a Bi _{0.5} Sb _{1.5} Te ₃ /SrTiO ₃ heterostructure. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10839-10844.	10.3	15
65	Crystal-plane-dependent redox reaction on Cu surfaces. <i>Nano Research</i> , 2020, 13, 1677-1685.	10.4	18
66	Tuning the activities of cuprous oxide nanostructures via the oxide-metal interaction. <i>Nature Communications</i> , 2020, 11, 2312.	12.8	31
67	Atomic-Scale Insight into Exsolution of CoFe Alloy Nanoparticles in La _{0.4} Sr _{0.6} Co _{0.2} Fe _{0.7} Mo _{0.1} O _{3-δ} with Efficient CO ₂ Electrolysis. <i>Angewandte Chemie</i> , 2020, 132, 16102-16107.	2.0	4
68	Chain Mail for Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15294-15297.	13.8	159
69	Platinum-Decorated Ceria Enhances CO ₂ Electroreduction in Solid Oxide Electrolysis Cells. <i>ChemSusChem</i> , 2020, 13, 6290-6295.	6.8	25
70	Oxidation-induced segregation of FeO on the Pd-Fe alloy surface. <i>Applied Surface Science</i> , 2020, 525, 146484.	6.1	6
71	Selective Synthesis of Benzene, Toluene, and Xylenes from Syngas. <i>ACS Catalysis</i> , 2020, 10, 7389-7397.	11.2	53
72	Recent Advancements and Perspective of High-Performance Printed Power Sources with Multiple Form Factors. <i>Electrochemical Energy Reviews</i> , 2020, 3, 581-612.	25.5	26

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73	Distance Synergy of MoS ₂ -Confined Rhodium Atoms for Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10502-10507.	13.8	122
74	Distance Synergy of MoS ₂ -Confined Rhodium Atoms for Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 10588-10593.	2.0	37
75	Double-layer hybrid chainmail catalyst for high-performance hydrogen evolution. <i>Nano Energy</i> , 2020, 72, 104700.	16.0	35
76	Chain Mail for Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 15406-15409.	2.0	14
77	The Coalescence Behavior of Two-Dimensional Materials Revealed by Multiscale <i>In Situ</i> Imaging during Chemical Vapor Deposition Growth. <i>ACS Nano</i> , 2020, 14, 1902-1918.	14.6	35
78	Probing surface defects of ZnO using formaldehyde. <i>Journal of Chemical Physics</i> , 2020, 152, 074714.	3.0	10
79	Pd single site-anchored perovskite cathode for CO ₂ electrolysis in solid oxide electrolysis cells. <i>Nano Energy</i> , 2020, 71, 104598.	16.0	39
80	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <i>Energy and Environmental Science</i> , 2020, 13, 821-829.	30.8	82
81	In Situ Reconstruction of a Hierarchical Sn-Cu/SnO _x Core/Shell Catalyst for High-Performance CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4814-4821.	13.8	270
82	Dynamic observation of in-plane h-BN/graphene heterostructures growth on Ni(111). <i>Nano Research</i> , 2020, 13, 1789-1794.	10.4	20
83	High-Valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 1903089.	11.2	182
84	C-C Bond Formation in Syngas Conversion over Zinc Sites Grafted on ZSM-5 Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6529-6534.	13.8	34
85	C-C Bond Formation in Syngas Conversion over Zinc Sites Grafted on ZSM-5 Zeolite. <i>Angewandte Chemie</i> , 2020, 132, 6591-6596.	2.0	5
86	Step-confined thin film growth via near-surface atom migration. <i>Nano Research</i> , 2020, 13, 1552-1557.	10.4	2
87	Atomic-Scale Insight into Exsolution of CoFe Alloy Nanoparticles in La _{0.4} Sr _{0.6} Co _{0.2} Fe _{0.7} Mo _{0.1} O ₃ with Efficient CO ₂ Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15968-15973.	13.8	94
88	Designing Electrolyzers for Electrocatalytic CO ₂ Reduction. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	4.9	15
89	Strain and support effects on phase transition and surface reactivity of ultrathin ZnO films: DFT insights. <i>AIP Advances</i> , 2020, 10, .	1.3	4
90	A highly active and stable Pd/B-doped carbon catalyst for the hydrogenation of 4-carboxybenzaldehyde. <i>Journal of Energy Chemistry</i> , 2019, 31, 154-158.	12.9	10

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91	Growth and structures of monolayer and bilayer CeO nanostructures on Au(111). Surface Science, 2019, 679, 31-36.	1.9	8
92	Confinement Catalysis with 2D Materials for Energy Conversion. Advanced Materials, 2019, 31, e1901996.	21.0	257
93	Selective conversion of syngas to propane over ZnCrO -SSZ-39 OX-ZEO catalysts. Journal of Energy Chemistry, 2019, 36, 141-147.	12.9	26
94	Enhanced Methane Conversion to Olefins and Aromatics by H-Donor Molecules under Nonoxidative Condition. ACS Catalysis, 2019, 9, 9045-9050.	11.2	44
95	Synergistic Catalysis over Iron-Nitrogen Sites Anchored with Cobalt Phthalocyanine for Efficient CO ₂ Electroreduction. Advanced Materials, 2019, 31, e1903470.	21.0	256
96	High-Temperature CO ₂ Electrolysis in Solid Oxide Electrolysis Cells: Developments, Challenges, and Prospects. Advanced Materials, 2019, 31, e1902033.	21.0	237
97	Activation of CO and surface carbon species for conversion of syngas to light olefins on ZnCrO -Al ₂ O ₃ catalysts. Applied Surface Science, 2019, 494, 353-360.	6.1	25
98	Surface and Subsurface Structures of the Pt-Fe Surface Alloy on Pt(111). Journal of Physical Chemistry C, 2019, 123, 17225-17231.	3.1	10
99	Direct Methane Conversion under Mild Condition by Thermo-, Electro-, or Photocatalysis. Chem, 2019, 5, 2296-2325.	11.7	331
100	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. Journal of the American Chemical Society, 2019, 141, 18318-18324.	13.7	30
101	Progress of Photodetectors Based on the Photothermoelectric Effect. Advanced Materials, 2019, 31, e1902044.	21.0	132
102	Interfacial Enhancement by Al ₂ O ₃ of Electrochemical Oxidative Dehydrogenation of Ethane to Ethylene in Solid Oxide Electrolysis Cells. Angewandte Chemie - International Edition, 2019, 58, 16043-16046.	13.8	31
103	Confined microenvironment for catalysis control. Nature Catalysis, 2019, 2, 834-836.	34.4	67
104	All-Solid-State Planar Sodium-Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. Advanced Science, 2019, 6, 1902147.	11.2	34
105	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. Advanced Functional Materials, 2019, 29, 1902860.	14.9	104
106	Rare-earth ion exchanged Cu-SSZ-13 zeolite from organotemplate-free synthesis with enhanced hydrothermal stability in NH ₃ -SCR of NO _x . Catalysis Science and Technology, 2019, 9, 241-251.	4.1	64
107	Mapping the dynamics of methanol and xenon co-adsorption in SWNTs by <i>in situ</i> continuous-flow hyperpolarized ¹²⁹ Xe NMR. Physical Chemistry Chemical Physics, 2019, 21, 3287-3293.	2.8	4
108	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. Energy and Environmental Science, 2019, 12, 1534-1541.	30.8	192

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109	Carbon dioxide hydrogenation to light olefins over ZnO-Y ₂ O ₃ and SAPO-34 bifunctional catalysts. Catalysis Communications, 2019, 129, 105711.	3.3	40
110	The Road Towards Planar Microbatteries and Micro-Supercapacitors: From 2D to 3D Device Geometries. Advanced Materials, 2019, 31, e1900583.	21.0	160
111	Insights into the Site-Selective Adsorption of Methanol and Water in Mordenite Zeolite by ¹²⁹ Xe NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 17368-17374.	3.1	9
112	Structural investigation of interlayer-expanded zeolite by hyperpolarized ¹²⁹ Xe and ¹ H NMR spectroscopy. Microporous and Mesoporous Materials, 2019, 288, 109555.	4.4	8
113	Enhanced CO ₂ Methanation Activity of Ni/Anatase Catalyst by Tuning Strong Metal-Support Interactions. ACS Catalysis, 2019, 9, 6342-6348.	11.2	127
114	Pentacoordinated Al ³⁺ -Stabilized Active Pd Structures on Al ₂ O ₃ -Coated Palladium Catalysts for Methane Combustion. Angewandte Chemie - International Edition, 2019, 58, 12043-12048.	13.8	109
115	Pentacoordinated Al ³⁺ -Stabilized Active Pd Structures on Al ₂ O ₃ -Coated Palladium Catalysts for Methane Combustion. Angewandte Chemie, 2019, 131, 12171-12176.	2.0	10
116	Shape-tailorable high-energy asymmetric micro-supercapacitors based on plasma reduced and nitrogen-doped graphene oxide and MoO ₂ nanoparticles. Journal of Materials Chemistry A, 2019, 7, 14328-14336.	10.3	34
117	Three-dimensionally hierarchical MoS ₂ /graphene architecture for high-performance hydrogen evolution reaction. Nano Energy, 2019, 61, 611-616.	16.0	127
118	Identification of different carbenium ion intermediates in zeolites with identical chabazite topology via ¹³ C- ¹³ C through-bond NMR correlations. RSC Advances, 2019, 9, 12415-12418.	3.6	11
119	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. Nature Communications, 2019, 10, 1340.	12.8	100
120	A near ambient pressure photoemission electron microscope (NAP-PEEM). Ultramicroscopy, 2019, 200, 105-110.	1.9	16
121	Controlled growth of uniform two-dimensional ZnO overlayers on Au(111) and surface hydroxylation. Nano Research, 2019, 12, 2348-2354.	10.4	31
122	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. Journal of Materials Chemistry A, 2019, 7, 9478-9485.	10.3	120
123	Effect of Near-Surface Dopants on the Epitaxial Growth of h-BN on Metal Surfaces. Advanced Materials Interfaces, 2019, 6, 1801906.	3.7	8
124	In situ exsolved FeNi ₃ nanoparticles on nickel doped Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ perovskite for efficient electrochemical CO ₂ reduction reaction. Journal of Materials Chemistry A, 2019, 7, 11967-11975.	10.3	159
125	High-Quality Gasoline Directly from Syngas by Dual Metal Oxide-Zeolite (OX-ZEO) Catalysis. Angewandte Chemie - International Edition, 2019, 58, 7400-7404.	13.8	95
126	High-Quality Gasoline Directly from Syngas by Dual Metal Oxide-Zeolite (OX-ZEO) Catalysis. Angewandte Chemie, 2019, 131, 7478-7482.	2.0	15

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127	Interface-controlled synthesis of CeO ₂ (111) and CeO ₂ (100) and their structural transition on Pt(111). Chinese Journal of Catalysis, 2019, 40, 204-213.	14.0	14
128	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. Journal of Materials Chemistry A, 2019, 7, 4420-4425.	10.3	52
129	Oxygen Evolution Reaction over the Au/YSZ Interface at High Temperature. Angewandte Chemie - International Edition, 2019, 58, 4617-4621.	13.8	33
130	Oxygen Evolution Reaction over the Au/YSZ Interface at High Temperature. Angewandte Chemie, 2019, 131, 4665-4669.	2.0	12
131	Microscale Energy Storage Devices: The Road Towards Planar Microbatteries and Micro Supercapacitors: From 2D to 3D Device Geometries (Adv. Mater. 50/2019). Advanced Materials, 2019, 31, 1970351.	21.0	6
132	Interface-confined triangular FeOx nanoclusters on Pt(111). Journal of Chemical Physics, 2019, 151, 214704.	3.0	3
133	Dynamic nanoscale imaging of enriched CO adlayer on Pt(111) confined under h-BN monolayer in ambient pressure atmospheres. Nano Research, 2019, 12, 85-90.	10.4	13
134	2D mesoporous MnO ₂ nanosheets for high-energy asymmetric micro-supercapacitors in water-in-salt gel electrolyte. Energy Storage Materials, 2019, 18, 397-404.	18.0	140
135	CO and H ₂ Activation over g-ZnO Layers and w-ZnO(0001). ACS Catalysis, 2019, 9, 1373-1382.	11.2	34
136	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. Chemical Reviews, 2019, 119, 1806-1854.	47.7	745
137	Transition metal-nitrogen sites for electrochemical carbon dioxide reduction reaction. Chinese Journal of Catalysis, 2019, 40, 23-37.	14.0	62
138	Phonon-enhanced photothermoelectric effect in SrTiO ₃ ultra-broadband photodetector. Nature Communications, 2019, 10, 138.	12.8	112
139	Room-temperature electrochemical water-gas shift reaction for high purity hydrogen production. Nature Communications, 2019, 10, 86.	12.8	62
140	Enhanced aromatic selectivity by the sheet-like ZSM-5 in syngas conversion. Journal of Energy Chemistry, 2019, 35, 44-48.	12.9	58
141	Size Effects of ZnO Nanoparticles in Bifunctional Catalysts for Selective Syngas Conversion. ACS Catalysis, 2019, 9, 960-966.	11.2	100
142	Recent advances in the preparation of zeolites for the selective catalytic reduction of NO _x in diesel engines. Reaction Chemistry and Engineering, 2019, 4, 975-985.	3.7	35
143	Enhanced hydrogen evolution reaction over molybdenum carbide nanoparticles confined inside single-walled carbon nanotubes. Journal of Energy Chemistry, 2019, 28, 123-127.	12.9	55
144	Promoting oxygen evolution reaction by RuO ₂ nanoparticles in solid oxide CO ₂ electrolyzer. Energy Storage Materials, 2018, 13, 207-214.	18.0	27

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145	Shape-selective Zeolites Promote Ethylene Formation from Syngas via a Ketene Intermediate. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4692-4696.	13.8	185
146	Measurement of proton chemical shift anisotropy in solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 93, 16-28.	2.3	25
147	Synergetic optimization of electronic and thermal transport for high-performance thermoelectric GeSe ₂ -AgSbTe ₂ alloy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8215-8220.	10.3	38
148	A versatile method for the encapsulation of various non-precious metal nanoparticles inside single-walled carbon nanotubes. <i>Nano Research</i> , 2018, 11, 3132-3144.	10.4	18
149	Stretchable tandem micro-supercapacitors with high voltage output and exceptional mechanical robustness. <i>Energy Storage Materials</i> , 2018, 13, 233-240.	18.0	82
150	Growth of Cu/SSZ-13 on SiC for selective catalytic reduction of NO with NH ₃ . <i>Chinese Journal of Catalysis</i> , 2018, 39, 71-78.	14.0	7
151	Towards enhanced sodium storage by investigation of the Li ion doping and rearrangement mechanism in Na ₃ V ₂ (PO ₄) ₃ for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4209-4218.	10.3	54
152	The activity and stability of PdCl ₂ /C-N catalyst for acetylene hydrochlorination. <i>Science China Chemistry</i> , 2018, 61, 444-448.	8.2	28
153	Carbon doping of hexagonal boron nitride porous materials toward CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1832-1839.	10.3	131
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