Zhonghua Zhu

List of Publications by Year
in descending order

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318 papers	28,990 citations	3717 88 h-index	6606 154 g-index
332 all docs	332 docs citations	332 times ranked	26811 citing authors

#	Article	IF	Citations
1	Enhancing the Ammonia Catalytic Decomposition of Lanthanum Strontium Titanate Nickel Perovskite Catalysts via a Balanced Cation Doping and Deficiency Strategy. Energy & Fuels, 2024, 38, 5449-5456.	5.3	13
2	Hollow fiber gas-diffusion electrodes with tailored crystal facets for tuning syngas production in electrochemical CO2 reduction. Chemical Engineering Journal, 2024, 490, 151651.	11.9	17
3	Steering CO Selectivity in CO₂ Electroreduction over Silver Microtubular Gas-Diffusion Electrodes via Surface Reconstruction. Energy & Fuels, 2024, 38, 10096-10105.	5.3	14
4	Biomorph Soft Actuators with Tardigradeâ€Like Resilience. Advanced Functional Materials, 2024, 34, .	16.9	7
5	Performance deviation analysis and reliability improvement during experimental development of lab-scale solid oxide single cells. Energy and Environmental Science, 2024, 17, 6873-6896.	30.6	15
6	Creating a MOF with larger pores and higher stability for gas separation through continuous structure transformation. Journal of Materials Chemistry A, 2024, 12, 25820-25828.	9.3	18
7	Bioinspired Hydro- and Hydrothermally Responsive Tubular Soft Actuators. ACS Applied Materials & Interfaces, 2024, 16, 59202-59215.	8.1	5
8	Prediction of perovskite oxygen vacancies for oxygen electrocatalysis at different temperatures. Nature Communications, 2024, 15, .	14.2	52
9	Dative Bâ†N bonds based crystalline organic framework with permanent porosity for acetylene storage and separation. Chemical Science, 2023, 14, 533-539.	7.5	48
10	A new honeycomb MOF for C₂H₄purification and C₃H₆enrichment by separating methanol to olefin products. Journal of Materials Chemistry A, 2023, 11, 2343-2348.	9.3	58
11	Extraordinary Separation of Acetylene-Containing Mixtures in a Honeycomb Calcium-Based MOF with Multiple Active Sites. ACS Applied Materials & Interfaces, 2023, 15, 2971-2978.	8.1	27
12	Rational Construction of Ultrahigh Thermal Stable MOF for Efficient Separation of MTO Products and Natural Gas. , 2023, 5, 1091-1099.		99
13	Plantâ€Like Tropisms in Artificial Muscles. Advanced Materials, 2023, 35, .	24.4	32
14	Facile and Eco-Friendly Approach To Produce Confined Metal Cluster Catalysts. Journal of the American Chemical Society, 2023, 145, 9718-9728.	15.7	38
15	Selective CO₂hydrogenation over zeolite-based catalysts for targeted high-value products. Journal of Materials Chemistry A, 2023, 11, 17938-17960.	9.3	38
16	Thermoresponsive hydrogel artificial muscles. Matter, 2023, 6, 2735-2775.	9.9	44
17	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. Journal of Colloid and Interface Science, 2022, 607, 53-60.	9.9	9
18	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metalâ€“Organic Framework Glasses for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	14.9	73

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19	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metalâ€“Organic Framework Glasses for the Oxygen Evolution Reaction. Angewandte Chemie, 2022, 134, .	1.5	8
20	A robust ethane-selective metal-organic framework with nonpolar pore surface for efficient C2H6/C2H4 separation. Chemical Engineering Journal, 2022, 433, 133786.	11.9	28
21	Methane internal steam reforming in solid oxide fuel cells at intermediate temperatures. International Journal of Hydrogen Energy, 2022, 47, 13969-13979.	9.2	20
22	Regulating the reaction zone of electrochemical CO2 reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. Applied Catalysis B: Environmental, 2022, 310, 121362.	20.3	71
23	Composite cathodes for protonic ceramic fuel cells: Rationales and materials. Composites Part B: Engineering, 2022, 238, 109881.	12.9	132
24	C₂H₂capture and separation in a MOF based on Ni₆trigonal-prismatic units. Chemical Communications, 2022, 58, 6208-6211.	4.2	18
25	Oneâ€Step C₂H₄Purification from Ternary C₂H₆/C₂H₄/C₂H₂Mixtures by a Robust Metalâ€“Organic Framework with Customized Pore Environment. Angewandte Chemie - International Edition, 2022, 61, .	14.9	112
26	Oneâ€Step C₂H₄Purification from Ternary C₂H₆/C₂H₄/C₂H₂Mixtures by a Robust Metalâ€“Organic Framework with Customized Pore Environment. Angewandte Chemie, 2022, 134, .	1.5	16
27	Efficient One-Step Purification of C₁and C₂Hydrocarbons over CO₂in a New CO₂-Selective MOF with a Gate-Opening Effect. ACS Applied Materials & Interfaces, 2022, 14, 26858-26865.	8.1	29
28	Phase control of ZIF-7 nanoparticles via mechanochemical synthesis. Chemical Communications, 2022, 58, 12297-12300.	4.2	15
29	Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. Catalysis Reviews - Science and Engineering, 2021, 63, 1-67.	12.4	116
30	A Dy₆-cluster-basedfcu-MOF with efficient separation of C₂H₂/C₂H₄and selective adsorption of benzene. Inorganic Chemistry Frontiers, 2021, 8, 376-382.	6.3	35
31	Unveiling the effects of dimensionality of tin oxide-derived catalysts on CO₂ reduction by using gas-diffusion electrodes. Reaction Chemistry and Engineering, 2021, 6, 345-352.	2.9	22
32	Multiple Functions of Gas Separation and Vapor Adsorption in a New MOF with Open Tubular Channels. ACS Applied Materials & Interfaces, 2021, 13, 4102-4109.	8.1	109
33	Phase and morphology engineering of porous cobaltâ€“copper sulfide as a bifunctional oxygen electrode for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2021, 9, 18329-18337.	9.3	18
34	Defect engineering and characterization of active sites for efficient electrocatalysis. Nanoscale, 2021, 13, 3327-3345.	5.1	129
35	The controllable synthesis of urchin-shaped hierarchical superstructure MOFs with high catalytic activity and stability. Chemical Communications, 2021, 57, 8758-8761.	4.2	14
36	Revealing cracking and breakage behaviours of gibbsite particles. Ceramics International, 2021, 47, 4625-4632.	5.4	1

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37	Beyond Platinum: Defects Abundant CoP₃/Ni₂P Heterostructure for Hydrogen Evolution Electrocatalysis. Small Science, 2021, 1, .	7.8	49
38	Perovskite Cathode Materials for Low-Temperature Solid Oxide Fuel Cells: Fundamentals to Optimization. Electrochemical Energy Reviews, 2021, 5, 263-311.	31.4	79
39	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pHâ€Universal Overall Water Splitting. Small, 2021, 17, .	11.5	55
40	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO2 reduction to formate. Applied Catalysis B: Environmental, 2021, 286, 119945.	20.3	119
41	Computational Design and Experimental Validation of the Optimal Bimetal-Doped SrCoO_{3â^'Î´} Perovskite as Solid Oxide Fuel Cell Cathode. Journal of the American Chemical Society, 2021, 143, 9507-9514.	15.7	87
42	A microwave powered polymeric artificial muscle. Applied Materials Today, 2021, 23, 101021.	4.0	30
43	Efficient Gas and VOC Separation and Pesticide Detection in a Highly Stable Interpenetrated Indiumâ€“Organic Framework. Inorganic Chemistry, 2021, 60, 10698-10706.	4.6	30
44	Reversible Torsional Actuation of Hydrogel Filled Multifilament Fibre Actuator. Actuators, 2021, 10, 244.	2.2	5
45	One stone two birds: Simultaneous realization of partial oxidation of methane to syngas and N2 purification via robust ceramic oxygen-permeable membrane reactors. Chemical Engineering Journal, 2021, 419, 129462.	11.9	34
46	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO2 electrochemical reduction. Applied Catalysis B: Environmental, 2021, 298, 120538.	20.3	60
47	Crystal Facet Engineering of Copper-Based Metalâ€“Organic Frameworks with Inorganic Modulators. Crystal Growth and Design, 2021, 21, 926-934.	3.5	31
48	A highly stable MOF with F and N accessible sites for efficient capture and separation of acetylene from ternary mixtures. Journal of Materials Chemistry A, 2021, 9, 24495-24502.	9.3	56
49	A new metalâ€“organic framework based on rare [Zn₄F₄] cores for efficient separation of C₂H₂. Chemical Communications, 2021, 57, 12788-12791.	4.2	13
50	Acetylene Separation by a Ca-MOF Containing Accessible Sites of Open Metal Centers and Organic Groups. ACS Applied Materials & Interfaces, 2021, 13, 58862-58870.	8.1	56
51	Novel cage-like MOF for gas separation, CO₂ conversion and selective adsorption of an organic dye. Inorganic Chemistry Frontiers, 2020, 7, 746-755.	6.3	129
52	A Multi-Functional In(III)-Organic Framework for Acetylene Separation, Carbon Dioxide Utilization, and Antibiotic Detection in Water. Inorganic Chemistry, 2020, 59, 15302-15311.	4.6	48
53	New Supercage Metalâ€“Organic Framework Based on Allopurinol Ligands Showing Acetylene Storage and Separation. Chemistry - A European Journal, 2020, 26, 16402-16407.	3.4	18
54	New Insights into the Degradation Behavior of Air Electrodes during Solid Oxide Electrolysis and Reversible Solid Oxide Cell Operation. Energy Technology, 2020, 8, .	3.4	11

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55	Efficient C₂H_n Hydrocarbons and VOC Adsorption and Separation in an MOF with Lewis Basic and Acidic Decorated Active Sites. ACS Applied Materials & Interfaces, 2020, 12, 41785-41793.	8.1	85
56	Sulfurâ€Modified Oxygen Vacancies in Ironâ€“Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. Angewandte Chemie, 2020, 132, 14772-14778.	1.5	128
57	Sulfurâ€Modified Oxygen Vacancies in Ironâ€“Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. Angewandte Chemie - International Edition, 2020, 59, 14664-14670.	14.9	245
58	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. Sustainable Materials and Technologies, 2020, 25, e00183.	4.0	10
59	CO₂â€resistant SDCâ€SSAF oxygen selective dualâ€phase hollow fiber membranes. Asia-Pacific Journal of Chemical Engineering, 2020, 15, .	1.4	9
60	Interfacial engineering of a polymerâ€“MOF composite by in situ vitrification. Chemical Communications, 2020, 56, 3609-3612.	4.2	65
61	A new honeycomb metalâ€“carboxylate-tetrazolate framework with multiple functions for CO₂ conversion and selective capture of C₂H₂, CO₂ and benzene. Inorganic Chemistry Frontiers, 2020, 7, 1957-1964.	6.3	46
62	Computational screening of MN₄ (M = Tiâ€“Cu) based metal organic frameworks for CO₂ reduction using the d-band centre as a descriptor. Nanoscale, 2020, 12, 6188-6194.	5.1	62
63	Efficient gas and alcohol uptake and separation driven by two types of channels in a porous MOF: an experimental and theoretical investigation. Journal of Materials Chemistry A, 2020, 8, 5227-5233.	9.3	46
64	Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. Ceramics International, 2020, 46, 12067-12072.	5.4	2
65	Metalâ€free graphene/boron nitride heterointerface for CO₂ reduction: Surface curvature controls catalytic activity and selectivity. EcoMat, 2020, 2, .	11.8	22
66	One-step In-situ Synthesis of Vacancy-rich CoFe2O4@Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. Chemical Research in Chinese Universities, 2020, 36, 479-487.	2.7	27
67	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO₂ Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 21670-21681.	8.1	104
68	A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Dimensional Metalâ€“Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 13699-13706.	1.5	89
69	A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Dimensional Metalâ€“Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 13565-13572.	14.9	257
70	Enhancing Oxygen Reduction Reaction Activity and CO₂ Tolerance of Cathode for Low-Temperature Solid Oxide Fuel Cells by in Situ Formation of Carbonates. ACS Applied Materials & Interfaces, 2019, 11, 26909-26919.	8.1	55
71	Unveiling Lithium Roles in Cobaltâ€Free Cathodes for Efficient Oxygen Reduction Reaction below 600â€‰Â°C. ChemElectroChem, 2019, 6, 5340-5348.	3.0	13
72	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metalâ€“Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2019, 11, 44300-44307.	8.1	72

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73	Microcrystalline cellulose-derived porous carbons with defective sites for electrochemical applications. Journal of Materials Chemistry A, 2019, 7, 22579-22587.	9.3	33
74	Sc and Ta-doped SrCoO3-Î´ perovskite as a high-performance cathode for solid oxide fuel cells. Composites Part B: Engineering, 2019, 178, 107491.	12.9	61
75	Evaluation of SrCo0.8Nb0.2O3-Î´, SrCo0.8Ta0.2O3-Î´ and SrCo0.8Nb0.1Ta0.1O3-Î´ as air electrode materials for solid oxide electrolysis and reversible solid oxide cells. Electrochimica Acta, 2019, 321, 134654.	5.4	18
76	Single Transition Metal Atom-Doped Graphene Supported on a Nickel Substrate: Enhanced Oxygen Reduction Reactions Modulated by Electron Coupling. Journal of Physical Chemistry C, 2019, 123, 3703-3710.	3.2	32
77	A single boron atom doped boron nitride edge as a metal-free catalyst for N₂ fixation. Physical Chemistry Chemical Physics, 2019, 21, 1110-1116.	2.8	121
78	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. Nature Catalysis, 2019, 2, 688-695.	42.4	594
79	Strontium-doped lanthanum iron nickelate oxide as highly efficient electrocatalysts for oxygen evolution reaction. Journal of Colloid and Interface Science, 2019, 553, 813-819.	9.9	32
80	Effect of ionic liquids (ILs) on MOFs/polymer interfacial enhancement in mixed matrix membranes. Journal of Membrane Science, 2019, 587, 117157.	8.3	105
81	Defective Graphene on the Transition-Metal Surface: Formation of Efficient Bifunctional Catalysts for Oxygen Evolution/Reduction Reactions in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 17410-17415.	8.1	35
82	Carbon Monoliths by Assembling Carbon Spheres for Gas Adsorption. Industrial & Engineering Chemistry Research, 2019, 58, 4957-4969.	4.0	16
83	Enhancing Oxygen Permeation via the Incorporation of Silver Inside Perovskite Oxide Membranes. Processes, 2019, 7, 199.	2.8	25
84	Silicon-doped graphene edges: an efficient metal-free catalyst for the reduction of CO₂ into methanol and ethanol. Catalysis Science and Technology, 2019, 9, 6800-6807.	4.0	63
85	A Novel Method to Purposely Modify the Anode/Electrolyte Interface in Solid Oxide Fuel Cells. ChemistrySelect, 2019, 4, 13835-13840.	1.7	3
86	Highly Stable Dualâ€Phase Membrane Based on Ce_{0.9}Gd_{0.1}O_{2â€“Î´}â€”La₂NiO_{4+Î´} for Oxygen Permeation under Pure CO₂ Atmosphere. Energy Technology, 2019, 7, .	3.4	37
87	Defectâ€Induced Ptâ€“Coâ€“Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygenâ€Involving Electrocatalysis. Advanced Materials, 2019, 31, .	24.4	229
88	Cracking Behavior and Mechanism of Gibbsite Crystallites during Calcination. Crystal Research and Technology, 2019, 54, 1800201.	1.8	4
89	Orientated growth of copper-based MOF for acetylene storage. Chemical Engineering Journal, 2019, 357, 320-327.	11.9	46
90	Nano-Biocatalysts of Cyt c@ZIF-8/GO Composites with High Recyclability via a de Novo Approach. ACS Applied Materials & Interfaces, 2018, 10, 16066-16076.	8.1	87

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91	An Interpenetrated Pillar-Layered Metal-Organic Framework with Novel Clusters: Reversible Structural Transformation and Selective Gate-Opening Adsorption. Crystal Growth and Design, 2018, 18, 3044-3050.	3.5	30
92	Honeycomb Metalâ€“Organic Framework with Lewis Acidic and Basic Bifunctional Sites: Selective Adsorption and CO₂ Catalytic Fixation. ACS Applied Materials & Interfaces, 2018, 10, 10965-10973.	8.1	157
93	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. Nano Research, 2018, 11, 3509-3518.	8.6	209
94	Pore channel surface modification for enhancing anti-fouling membrane distillation. Applied Surface Science, 2018, 443, 217-226.	6.6	52
95	An Uncommon Carboxylâ€Decorated Metalâ€“Organic Framework with Selective Gas Adsorption and Catalytic Conversion of CO₂. Chemistry - A European Journal, 2018, 24, 865-871.	3.4	118
96	A nitrogen-doped electrocatalyst from metalâ€“organic framework-carbon nanotube composite. Journal of Materials Research, 2018, 33, 538-545.	2.6	20
97	Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. Journal of Materials Chemistry A, 2018, 6, 293-312.	9.3	502
98	Predicting a new class of metal-organic frameworks as efficient catalyst for bi-functional oxygen evolution/reduction reactions. Journal of Catalysis, 2018, 367, 206-211.	6.5	74
99	Plasmaâ€Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. Angewandte Chemie - International Edition, 2018, 57, 16421-16425.	14.9	152
100	Plasmaâ€Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. Angewandte Chemie, 2018, 130, 16659-16663.	1.5	31
101	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. IScience, 2018, 7, 145-153.	3.8	41
102	Direct Evidence: Enhanced C₂H₆ and C₂H₄ Adsorption and Separation Performances by Introducing Open Nitrogen-Donor Sites in a MOF. Inorganic Chemistry, 2018, 57, 12417-12423.	4.6	38
103	Effect of rheological properties of mesophase pitch and coal mixtures on pore development in activated carbon discs with high compressive strength. Fuel Processing Technology, 2018, 177, 219-227.	7.6	22
104	Coking-resistant Ce0.8Ni0.2O2-Î´ internal reforming layer for direct methane solid oxide fuel cells. Electrochimica Acta, 2018, 282, 402-408.	5.4	16
105	Enhancement of oxygen permeation fluxes of La0.6Sr0.4CoO3â^' hollow fiber membrane via macrostructure modification and (La0.5Sr0.5)2CoO4+ decoration. Chemical Engineering Research and Design, 2018, 134, 487-496.	6.4	33
106	Porous Scandia-Stabilized Zirconia Layer for Enhanced Performance of Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2018, 10, 25295-25302.	8.1	23
107	A novel heterogeneous <scp>La_{0.8}Sr_{0.2}CoO_{3â^'Î´}/(La_{0.5}Sr_{0.5})₂CoO₄₊ dualâ€phase membrane for oxygen separation. Asia-Pacific Journal of Chemical Engineering, 2018, 13, .		
108	Enhancing O2-permeability and CO2-tolerance of La2NiO4+Î´ membrane via internal ionic-path. Materials Letters, 2018, 230, 161-165.	2.6	35

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109	Sc and Nb dopants in SrCoO3 modulate electronic and vacancy structures for improved water splitting and SOFC cathodes. Energy Storage Materials, 2017, 9, 229-234.	18.1	46
110	Highly CO₂-Tolerant Cathode for Intermediate-Temperature Solid Oxide Fuel Cells: Samarium-Doped Ceria-Protected SrCo_{0.85}Ta_{0.15}O_{3â^'Î´} Hybrid. ACS Applied Materials & Interfaces, 2017, 9, 2326-2333.	8.1	41
111	Ultrathin Ironâ€Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. Advanced Materials, 2017, 29, .	24.4	1,380
112	An in situ formed MnOâ€“Co composite catalyst layer over Niâ€“Ce_{0.8}Sm_{0.2}O_{2â^'x} anodes for direct methane solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 6494-6503.	9.3	23
113	Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 Â°C. Advanced Materials, 2017, 29, .	24.4	326
114	Porous MOF with Highly Efficient Selectivity and Chemical Conversion for CO₂. ACS Applied Materials & Interfaces, 2017, 9, 17969-17976.	8.1	200
115	Synthesis of Highly Porous Metalâ€Free Oxygen Reduction Electrocatalysts in a Selfâ€Sacrificial Bacterial Cellulose Microreactor. Advanced Sustainable Systems, 2017, 1, .	5.8	11
116	Influence of copper loading on mesoporous alumina for catalytic NO reduction in the presence of CO. Journal of Environmental Chemical Engineering, 2017, 5, 2350-2361.	6.2	22
117	A-Site Excess (La_{0.8}Ca_{0.2})_{1.01}FeO_{3â^'Î´} (LCF) Perovskite Hollow Fiber Membrane for Oxygen Permeation in CO₂-Containing Atmosphere. Energy & Fuels, 2017, 31, 4531-4538.	5.3	26
118	A facile method to synthesize boron-doped Ni/Fe alloy nano-chains as electrocatalyst for water oxidation. Journal of Power Sources, 2017, 349, 68-74.	8.1	53
119	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500â€‰Â°C. Nature Communications, 2017, 8, .	14.2	216
120	Enhanced oxygen permeability and electronic conductivity of Ce0.8Gd0.2O2â^'Î´ membrane via the addition of sintering aids. Solid State Ionics, 2017, 310, 121-128.	3.1	24
121	Gate opening effect of zeolitic imidazolate framework ZIF-7 for adsorption of CH₄ and CO₂ from N₂. Journal of Materials Chemistry A, 2017, 5, 21389-21399.	9.3	86
122	Hexagonal Sphericon Hematite with High Performance for Water Oxidation. Advanced Materials, 2017, 29, .	24.4	49
123	Effect of sonication and hydrogen peroxide oxidation of carbon nanotube modifiers on the microstructure of pitch-derived activated carbon foam discs. Carbon, 2017, 124, 142-151.	10.3	27
124	A new layer-stacked porous framework showing sorption selectivity for CO₂ and luminescence. Dalton Transactions, 2017, 46, 11722-11727.	3.2	20
125	Proton-Conducting La-Doped Ceria-Based Internal Reforming Layer for Direct Methane Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 33758-33765.	8.1	38
126	Efficient water oxidation with amorphous transition metal boride catalysts synthesized by chemical reduction of metal nitrate salts at room temperature. RSC Advances, 2017, 7, 32923-32930.	4.5	32

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127	Efficient light hydrocarbon separation and CO₂ capture and conversion in a stable MOF with oxalamide-decorated polar tubes. Chemical Communications, 2017, 53, 12970-12973.	4.2	131
128	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO2 adsorption. Composites Communications, 2017, 5, 27-30.	6.7	45
129	A porous yttria-stabilized zirconia layer to eliminate the delamination of air electrode in solid oxide electrolysis cells. Journal of Power Sources, 2017, 359, 104-110.	8.1	41
130	Gravimetric adsorption measurements of helium on natural clinoptilolite and synthetic molecular sieves at pressures up to 3500ÂkPa. Microporous and Mesoporous Materials, 2017, 244, 218-225.	4.7	17
131	The preparation of activated carbon discs from tar pitch and coal powder for adsorption of CO 2 , CH 4 and N 2. Microporous and Mesoporous Materials, 2017, 238, 19-26.	4.7	49
132	MnO-Co composite modified Ni-SDC anode for intermediate temperature solid oxide fuel cells. Fuel Processing Technology, 2017, 161, 241-247.	7.6	17
133	Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. Separation and Purification Technology, 2017, 173, 63-71.	8.8	59
134	A novel CO2-resistant ceramic dual-phase hollow fiber membrane for oxygen separation. Journal of Membrane Science, 2017, 522, 91-99.	8.3	58
135	Recent development on perovskiteâ€type cathode materials based on SrCoO_{3â€‰â^'}â€‰_{Î´} parent oxide for intermediateâ€temperature solid oxide fuel cells. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 370-381.	1.4	37
136	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 6442-6448.	24.4	522
137	Uncommon Pyrazoyl-Carboxyl Bifunctional Ligand-Based Microporous Lanthanide Systems: Sorption and Luminescent Sensing Properties. Inorganic Chemistry, 2016, 55, 3952-3959.	4.6	298
138	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.	20.3	474
139	Structural Diversity of Cadmium(II) Coordination Polymers Induced by Tuning the Coordination Sites of Isomeric Ligands. Inorganic Chemistry, 2016, 55, 8871-8880.	4.6	47
140	Nitrogen-Doped Carbon Foams Synthesized from Banana Peel and Zinc Complex Template for Adsorption of CO₂, CH₄, and N₂. Energy & Fuels, 2016, 30, 7298-7309.	5.3	68
141	Defectiveâ€Activatedâ€Carbonâ€Supported Mnâ€“Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. Advanced Materials, 2016, 28, 8771-8778.	24.4	184
142	A chiral metalâ€“organic framework with polar channels: unique interweaving six-fold helices and high CO₂/CH₄ separation. Inorganic Chemistry Frontiers, 2016, 3, 1326-1331.	6.3	29
143	Cobalt Oxide and Cobaltâ€Graphitic Carbon Coreâ€“Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. Advanced Science, 2016, 3, .	12.7	117
144	Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. ACS Applied Materials & Interfaces, 2016, 8, 32041-32049.	8.1	192

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145	Unsupported Laâ€Niâ€O Catalysts Derived from Perovskite Precursors for CH4â€CO2 Reforming under Microwave Irradiation. Chemical Engineering and Technology, 2016, 39, 1551-1560.	1.7	9
146	Boosting oxygen reduction and hydrogen evolution at the edge sites of a web-like carbon nanotube-graphene hybrid. Carbon, 2016, 107, 739-746.	10.3	25
147	Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. Chemical Communications, 2016, 52, 8156-8159.	4.2	160
148	Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. Journal of Materials Chemistry A, 2016, 4, 6084-6090.	9.3	76
149	Activated carbon monoliths with hierarchical pore structure from tar pitch and coal powder for the adsorption of CO2, CH4 and N2. Carbon, 2016, 103, 115-124.	10.3	150
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