

# Zhonghua Zhu

## List of Publications by Year in descending order

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314  
papers

26,114  
citations

6486

82  
h-index

9346

148  
g-index

326  
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326  
docs citations

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times ranked

30577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite Cathode Materials for Low-Temperature Solid Oxide Fuel Cells: Fundamentals to Optimization. <i>Electrochemical Energy Reviews</i> , 2022, 5, 263-311.	13.1	35
2	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 53-60.	5.0	4
3	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal-Organic Framework Glasses for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	41
4	A robust ethane-selective metal-organic framework with nonpolar pore surface for efficient C <sub>2</sub> H <sub>6</sub> /C <sub>2</sub> H <sub>4</sub> separation. <i>Chemical Engineering Journal</i> , 2022, 433, 133786.	6.6	19
5	Methane internal steam reforming in solid oxide fuel cells at intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13969-13979.	3.8	11
6	Regulating the reaction zone of electrochemical CO <sub>2</sub> reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121362.	10.8	21
7	Composite cathodes for protonic ceramic fuel cells: Rationales and materials. <i>Composites Part B: Engineering</i> , 2022, 238, 109881.	5.9	59
8	C <sub>2</sub> H <sub>2</sub> capture and separation in a MOF based on Ni <sub>6</sub> trigonal-prismatic units. <i>Chemical Communications</i> , 2022, 58, 6208-6211.	2.2	17
9	One-Step C <sub>2</sub> H <sub>4</sub> Purification from Ternary C <sub>2</sub> H <sub>6</sub> /C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>2</sub> Mixtures by a Robust Metal-Organic Framework with Customized Pore Environment. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	57
10	One-Step C <sub>2</sub> H <sub>4</sub> Purification from Ternary C <sub>2</sub> H <sub>6</sub> /C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>2</sub> Mixtures by a Robust Metal-Organic Framework with Customized Pore Environment. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	15
11	Efficient One-Step Purification of C <sub>1</sub> and C <sub>2</sub> Hydrocarbons over CO <sub>2</sub> in a New CO <sub>2</sub> -Selective MOF with a Gate-Opening Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 26858-26865.	4.0	16
12	Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 1-67.	5.7	71
13	A Dy <sub>6</sub> -cluster-based <i>fcu</i> -MOF with efficient separation of C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and selective adsorption of benzene. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 376-382.	3.0	28
14	Unveiling the effects of dimensionality of tin oxide-derived catalysts on CO <sub>2</sub> reduction by using gas-diffusion electrodes. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 345-352.	1.9	20
15	Multiple Functions of Gas Separation and Vapor Adsorption in a New MOF with Open Tubular Channels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4102-4109.	4.0	67
16	Phase and morphology engineering of porous cobalt-copper sulfide as a bifunctional oxygen electrode for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18329-18337.	5.2	14
17	Defect engineering and characterization of active sites for efficient electrocatalysis. <i>Nanoscale</i> , 2021, 13, 3327-3345.	2.8	60
18	The controllable synthesis of urchin-shaped hierarchical superstructure MOFs with high catalytic activity and stability. <i>Chemical Communications</i> , 2021, 57, 8758-8761.	2.2	10

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19	Revealing cracking and breakage behaviours of gibbsite particles. <i>Ceramics International</i> , 2021, 47, 4625-4632.	2.3	1
20	Beyond Platinum: Defects Abundant CoP <sub>3</sub> /Ni <sub>2</sub> P Heterostructure for Hydrogen Evolution Electrocatalysis. <i>Small Science</i> , 2021, 1, 2000027.	5.8	32
21	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pH-Universal Overall Water Splitting. <i>Small</i> , 2021, 17, e2100121.	5.2	40
22	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO <sub>2</sub> reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	10.8	77
23	Computational Design and Experimental Validation of the Optimal Bimetal-Doped SrCoO <sub>3-<math>\delta</math></sub> Perovskite as Solid Oxide Fuel Cell Cathode. <i>Journal of the American Chemical Society</i> , 2021, 143, 9507-9514.	6.6	48
24	A microwave powered polymeric artificial muscle. <i>Applied Materials Today</i> , 2021, 23, 101021.	2.3	21
25	Efficient Gas and VOC Separation and Pesticide Detection in a Highly Stable Interpenetrated Indium-Organic Framework. <i>Inorganic Chemistry</i> , 2021, 60, 10698-10706.	1.9	23
26	Reversible Torsional Actuation of Hydrogel Filled Multifilament Fibre Actuator. <i>Actuators</i> , 2021, 10, 244.	1.2	3
27	One stone two birds: Simultaneous realization of partial oxidation of methane to syngas and N <sub>2</sub> purification via robust ceramic oxygen-permeable membrane reactors. <i>Chemical Engineering Journal</i> , 2021, 419, 129462.	6.6	23
28	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO <sub>2</sub> electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	10.8	35
29	Crystal Facet Engineering of Copper-Based Metal-Organic Frameworks with Inorganic Modulators. <i>Crystal Growth and Design</i> , 2021, 21, 926-934.	1.4	16
30	A highly stable MOF with F and N accessible sites for efficient capture and separation of acetylene from ternary mixtures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24495-24502.	5.2	40
31	A new metal-organic framework based on rare [Zn <sub>4</sub> F <sub>4</sub> ] cores for efficient separation of C <sub>2</sub> H <sub>2</sub> . <i>Chemical Communications</i> , 2021, 57, 12788-12791.	2.2	10
32	Acetylene Separation by a Ca-MOF Containing Accessible Sites of Open Metal Centers and Organic Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58862-58870.	4.0	26
33	Novel cage-like MOF for gas separation, CO <sub>2</sub> conversion and selective adsorption of an organic dye. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 746-755.	3.0	99
34	A Multi-Functional In(III)-Organic Framework for Acetylene Separation, Carbon Dioxide Utilization, and Antibiotic Detection in Water. <i>Inorganic Chemistry</i> , 2020, 59, 15302-15311.	1.9	38
35	New Supercage Metal-Organic Framework Based on Allopurinol Ligands Showing Acetylene Storage and Separation. <i>Chemistry - A European Journal</i> , 2020, 26, 16402-16407.	1.7	14
36	New Insights into the Degradation Behavior of Air Electrodes during Solid Oxide Electrolysis and Reversible Solid Oxide Cell Operation. <i>Energy Technology</i> , 2020, 8, 2000241.	1.8	6

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37	Efficient C <sub>2</sub> H <sub>n</sub> 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.	4.0	64
38	Sulfur-Modified Oxygen Vacancies in Iron-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.	1.6	89
39	Sulfur-Modified Oxygen Vacancies in Iron-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.	7.2	178
40	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. Sustainable Materials and Technologies, 2020, 25, e00183.	1.7	6
41	CO <sub>2</sub> -resistant SDC-SSAF oxygen selective dual-phase hollow fiber membranes. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2528.	0.8	9
42	Interfacial engineering of a polymer-MOF composite by <i>in situ</i> vitrification. Chemical Communications, 2020, 56, 3609-3612.	2.2	43
43	A new honeycomb metal-carboxylate-tetrazolate framework with multiple functions for CO <sub>2</sub> conversion and selective capture of C <sub>2</sub> H <sub>2</sub> , CO <sub>2</sub> and benzene. Inorganic Chemistry Frontiers, 2020, 7, 1957-1964.	3.0	39
44	Computational screening of MN <sub>4</sub> (M = Ti-Cu) based metal organic frameworks for CO <sub>2</sub> reduction using the d-band centre as a descriptor. Nanoscale, 2020, 12, 6188-6194.	2.8	52
45	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.	5.2	36
46	Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. Ceramics International, 2020, 46, 12067-12072.	2.3	2
47	Metal-free graphene/boron nitride heterointerface for CO <sub>2</sub> reduction: Surface curvature controls catalytic activity and selectivity. EcoMat, 2020, 2, e12013.	6.8	17
48	One-step In-situ Synthesis of Vacancy-rich CoFe <sub>2</sub> O <sub>4</sub> @Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. Chemical Research in Chinese Universities, 2020, 36, 479-487.	1.3	20
49	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO <sub>2</sub> Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 21670-21681.	4.0	69
50	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 13699-13706.	1.6	64
51	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 13565-13572.	7.2	205
52	Enhancing Oxygen Reduction Reaction Activity and CO <sub>2</sub> Tolerance of Cathode for Low-Temperature Solid Oxide Fuel Cells by <i>in situ</i> Formation of Carbonates. ACS Applied Materials & Interfaces, 2019, 11, 26909-26919.	4.0	35
53	Unveiling Lithium Roles in Cobalt-Free Cathodes for Efficient Oxygen Reduction Reaction below 600 °C. ChemElectroChem, 2019, 6, 5340-5348.	1.7	8
54	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2019, 11, 44300-44307.	4.0	53

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55	Microcrystalline cellulose-derived porous carbons with defective sites for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22579-22587.	5.2	25
56	Sc and Ta-doped SrCoO <sub>3-<math>\delta</math></sub> perovskite as a high-performance cathode for solid oxide fuel cells. <i>Composites Part B: Engineering</i> , 2019, 178, 107491.	5.9	40
57	Evaluation of SrCo <sub>0.8</sub> Nb <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> , SrCo <sub>0.8</sub> Ta <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> and SrCo <sub>0.8</sub> Nb <sub>0.1</sub> Ta <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> as air electrode materials for solid oxide electrolysis and reversible solid oxide cells. <i>Electrochimica Acta</i> , 2019, 321, 134654.	2.6	10
58	Single Transition Metal Atom-Doped Graphene Supported on a Nickel Substrate: Enhanced Oxygen Reduction Reactions Modulated by Electron Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3703-3710.	1.5	27
59	A single boron atom doped boron nitride edge as a metal-free catalyst for N <sub>2</sub> fixation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1110-1116.	1.3	107
60	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	16.1	423
61	Strontium-doped lanthanum iron nickelate oxide as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 813-819.	5.0	18
62	Effect of ionic liquids (ILs) on MOFs/polymer interfacial enhancement in mixed matrix membranes. <i>Journal of Membrane Science</i> , 2019, 587, 117157.	4.1	74
63	Defective Graphene on the Transition-Metal Surface: Formation of Efficient Bifunctional Catalysts for Oxygen Evolution/Reduction Reactions in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17410-17415.	4.0	34
64	Carbon Monoliths by Assembling Carbon Spheres for Gas Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 4957-4969.	1.8	14
65	Enhancing Oxygen Permeation via the Incorporation of Silver Inside Perovskite Oxide Membranes. <i>Processes</i> , 2019, 7, 199.	1.3	23
66	Silicon-doped graphene edges: an efficient metal-free catalyst for the reduction of CO <sub>2</sub> into methanol and ethanol. <i>Catalysis Science and Technology</i> , 2019, 9, 6800-6807.	2.1	51
67	A Novel Method to Purposely Modify the Anode/Electrolyte Interface in Solid Oxide Fuel Cells. <i>ChemistrySelect</i> , 2019, 4, 13835-13840.	0.7	0
68	Highly Stable Dual-Phase Membrane Based on Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> "La <sub>2</sub> NiO <sub>4+<math>\delta</math></sub> " for Oxygen Permeation under Pure CO <sub>2</sub> Atmosphere. <i>Energy Technology</i> , 2019, 7, 1800701.	1.8	37
69	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805581.	11.1	168
70	Cracking Behavior and Mechanism of Gibbsite Crystallites during Calcination. <i>Crystal Research and Technology</i> , 2019, 54, 1800201.	0.6	3
71	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019, 357, 320-327.	6.6	36
72	Nano-Biocatalysts of Cyt @ZIF-8/GO Composites with High Recyclability via a de Novo Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16066-16076.	4.0	74

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73	An Interpenetrated Pillar-Layered Metal-Organic Framework with Novel Clusters: Reversible Structural Transformation and Selective Gate-Opening Adsorption. <i>Crystal Growth and Design</i> , 2018, 18, 3044-3050.	1.4	25
74	Honeycomb Metal-Organic Framework with Lewis Acidic and Basic Bifunctional Sites: Selective Adsorption and CO <sub>2</sub> Catalytic Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10965-10973.	4.0	138
75	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , 2018, 11, 3509-3518.	5.8	167
76	Pore channel surface modification for enhancing anti-fouling membrane distillation. <i>Applied Surface Science</i> , 2018, 443, 217-226.	3.1	48
77	An Uncommon Carboxyl-Decorated Metal-Organic Framework with Selective Gas Adsorption and Catalytic Conversion of CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2018, 24, 865-871.	1.7	112
78	A nitrogen-doped electrocatalyst from metal-organic framework-carbon nanotube composite. <i>Journal of Materials Research</i> , 2018, 33, 538-545.	1.2	16
79	Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. <i>Journal of Materials Chemistry A</i> , 2018, 6, 293-312.	5.2	377
80	Predicting a new class of metal-organic frameworks as efficient catalyst for bi-functional oxygen evolution/reduction reactions. <i>Journal of Catalysis</i> , 2018, 367, 206-211.	3.1	61
81	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16421-16425.	7.2	120
82	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie</i> , 2018, 130, 16659-16663.	1.6	31
83	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , 2018, 7, 145-153.	1.9	39
84	Direct Evidence: Enhanced C <sub>2</sub> H <sub>6</sub> and C <sub>2</sub> H <sub>4</sub> Adsorption and Separation Performances by Introducing Open Nitrogen-Donor Sites in a MOF. <i>Inorganic Chemistry</i> , 2018, 57, 12417-12423.	1.9	34
85	Effect of rheological properties of mesophase pitch and coal mixtures on pore development in activated carbon discs with high compressive strength. <i>Fuel Processing Technology</i> , 2018, 177, 219-227.	3.7	19
86	Coking-resistant Ce <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>2-<math>\delta</math></sub> internal reforming layer for direct methane solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 282, 402-408.	2.6	14
87	Enhancement of oxygen permeation fluxes of La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3<math>\delta</math></sub> hollow fiber membrane via macrostructure modification and (La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> CoO <sub>4</sub> decoration. <i>Chemical Engineering Research and Design</i> , 2018, 134, 487-496.	2.7	29
88	Porous Scandia-Stabilized Zirconia Layer for Enhanced Performance of Reversible Solid Oxide Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25295-25302.	4.0	18
89	A novel heterogeneous dual-phase membrane for oxygen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2239.	0.8	11
90	Enhancing O <sub>2</sub> -permeability and CO <sub>2</sub> -tolerance of La <sub>2</sub> NiO <sub>4-<math>\delta</math></sub> membrane via internal ionic-path. <i>Materials Letters</i> , 2018, 230, 161-165.	1.3	34

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91	Sc and Nb dopants in SrCoO <sub>3</sub> modulate electronic and vacancy structures for improved water splitting and SOFC cathodes. <i>Energy Storage Materials</i> , 2017, 9, 229-234.	9.5	31
92	Highly CO <sub>2</sub> -Tolerant Cathode for Intermediate-Temperature Solid Oxide Fuel Cells: Samarium-Doped Ceria-Protected SrCo <sub>0.85</sub> Ta <sub>0.15</sub> O <sub>3-<math>\delta</math></sub> Hybrid. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2326-2333.	4.0	33
93	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017, 29, 1606793.	11.1	1,144
94	An in situ formed MnO <sub>x</sub> -Co composite catalyst layer over Ni-Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2-x</sub> anodes for direct methane solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6494-6503.	5.2	20
95	Recent Progress on Advanced Materials for Solid Oxide Fuel Cells Operating Below 500 °C. <i>Advanced Materials</i> , 2017, 29, 1700132.	11.1	257
96	Porous MOF with Highly Efficient Selectivity and Chemical Conversion for CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17969-17976.	4.0	173
97	Synthesis of Highly Porous Metal-Free Oxygen Reduction Electrocatalysts in a Self-Sacrificial Bacterial Cellulose Microreactor. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700045.	2.7	9
98	Influence of copper loading on mesoporous alumina for catalytic NO reduction in the presence of CO. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2350-2361.	3.3	20
99	A-Site Excess (La <sub>0.8</sub> Ca <sub>0.2</sub> ) <sub>1.01</sub> FeO <sub>3-<math>\delta</math></sub> (LCF) Perovskite Hollow Fiber Membrane for Oxygen Permeation in CO <sub>2</sub> -Containing Atmosphere. <i>Energy &amp; Fuels</i> , 2017, 31, 4531-4538.	2.5	23
100	A facile method to synthesize boron-doped Ni/Fe alloy nano-chains as electrocatalyst for water oxidation. <i>Journal of Power Sources</i> , 2017, 349, 68-74.	4.0	45
101	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , 2017, 8, 13990.	5.8	180
102	Enhanced oxygen permeability and electronic conductivity of Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2-<math>\delta</math></sub> membrane via the addition of sintering aids. <i>Solid State Ionics</i> , 2017, 310, 121-128.	1.3	21
103	Gate opening effect of zeolitic imidazolate framework ZIF-7 for adsorption of CH <sub>4</sub> and CO <sub>2</sub> from N <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2017, 5, 21389-21399.	5.2	67
104	Hexagonal Sphericon Hematite with High Performance for Water Oxidation. <i>Advanced Materials</i> , 2017, 29, 1703792.	11.1	46
105	Effect of sonication and hydrogen peroxide oxidation of carbon nanotube modifiers on the microstructure of pitch-derived activated carbon foam discs. <i>Carbon</i> , 2017, 124, 142-151.	5.4	24
106	A new layer-stacked porous framework showing sorption selectivity for CO <sub>2</sub> and luminescence. <i>Dalton Transactions</i> , 2017, 46, 11722-11727.	1.6	20
107	Proton-Conducting La-Doped Ceria-Based Internal Reforming Layer for Direct Methane Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33758-33765.	4.0	29
108	Efficient water oxidation with amorphous transition metal boride catalysts synthesized by chemical reduction of metal nitrate salts at room temperature. <i>RSC Advances</i> , 2017, 7, 32923-32930.	1.7	27

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109	Efficient light hydrocarbon separation and CO <sub>2</sub> capture and conversion in a stable MOF with oxalamide-decorated polar tubes. <i>Chemical Communications</i> , 2017, 53, 12970-12973.	2.2	121
110	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO <sub>2</sub> adsorption. <i>Composites Communications</i> , 2017, 5, 27-30.	3.3	35
111	A porous yttria-stabilized zirconia layer to eliminate the delamination of air electrode in solid oxide electrolysis cells. <i>Journal of Power Sources</i> , 2017, 359, 104-110.	4.0	33
112	Gravimetric adsorption measurements of helium on natural clinoptilolite and synthetic molecular sieves at pressures up to 3500 kPa. <i>Microporous and Mesoporous Materials</i> , 2017, 244, 218-225.	2.2	13
113	The preparation of activated carbon discs from tar pitch and coal powder for adsorption of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , 2017, 238, 19-26.	2.2	45
114	MnO-Co composite modified Ni-SDC anode for intermediate temperature solid oxide fuel cells. <i>Fuel Processing Technology</i> , 2017, 161, 241-247.	3.7	12
115	Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. <i>Separation and Purification Technology</i> , 2017, 173, 63-71.	3.9	50
116	A novel CO <sub>2</sub> -resistant ceramic dual-phase hollow fiber membrane for oxygen separation. <i>Journal of Membrane Science</i> , 2017, 522, 91-99.	4.1	58
117	Solid Oxide Fuel Cells: Recent Progress on Advanced Materials for Solid Oxide Fuel Cells Operating Below 500 °C (Adv. Mater. 48/2017). <i>Advanced Materials</i> , 2017, 29, 1770345.	11.1	97
118	Recent development on perovskite-type cathode materials based on SrCoO <sub>3</sub> parent oxide for intermediate temperature solid oxide fuel cells. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 370-381.	6.8	32
119	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2016, 28, 6442-6448.	11.1	429
120	Uncommon Pyrazoyl-Carboxyl Bifunctional Ligand-Based Microporous Lanthanide Systems: Sorption and Luminescent Sensing Properties. <i>Inorganic Chemistry</i> , 2016, 55, 3952-3959.	1.9	276
121	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 7-15.	10.8	390
122	Structural Diversity of Cadmium(II) Coordination Polymers Induced by Tuning the Coordination Sites of Isomeric Ligands. <i>Inorganic Chemistry</i> , 2016, 55, 8871-8880.	1.9	43
123	Nitrogen-Doped Carbon Foams Synthesized from Banana Peel and Zinc Complex Template for Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2016, 30, 7298-7309.	2.5	52
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