

John Wang

List of Publications by Year in descending order

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589
papers

51,303
citations

1994

101
h-index

1980

206
g-index

597
all docs

597
docs citations

597
times ranked

42077
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals, On-Going Advances and Challenges of Electrochemical Carbon Dioxide Reduction. <i>Electrochemical Energy Reviews</i> , 2022, 5, 82-111.	25.5	17
2	Developing better ceramic membranes for water and wastewater Treatment: Where microstructure integrates with chemistry and functionalities. <i>Chemical Engineering Journal</i> , 2022, 428, 130456.	12.7	49
3	Nanoframes of Co ₃ O ₄ @Mo ₂ N Heterointerfaces Enable High-Performance Bifunctionality toward Both Electrocatalytic HER and OER. <i>Advanced Functional Materials</i> , 2022, 32, 2107382.	14.9	153
4	“Porous and Yet Dense” Electrodes for High Volumetric Performance Electrochemical Capacitors: Principles, Advances, and Challenges. <i>Advanced Science</i> , 2022, 9, e2103953.	11.2	9
5	Evolution from Lead-Based to Lead-Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. <i>Advanced Materials</i> , 2022, 34, e2106845.	21.0	54
6	One-step synthesis of nitrogen-doped carbon quantum dots for paper-based electrochemiluminescence detection of Cu ²⁺ ions. <i>Microchemical Journal</i> , 2022, 174, 107057.	4.5	16
7	Quench-Induced Surface Engineering Boosts Alkaline Freshwater and Seawater Oxygen Evolution Reaction of Porous NiCo ₂ O ₄ Nanowires. <i>Small</i> , 2022, 18, e2106187.	10.0	38
8	Swapping Catalytic Active Sites from Cationic Ni to Anionic S in Nickel Sulfide Enables More Efficient Alkaline Hydrogen Generation. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	55
9	Nurturing the marriages of single atoms with atomic clusters and nanoparticles for better heterogeneous electrocatalysis. , 2022, 1, 51-87.		114
10	Large-Scale Epitaxial Growth of Ultralong Stripe BiFeO ₃ Films and Anisotropic Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	8.0	1
11	Two-step pyrolysis of Mn MIL-100 MOF into MnO nanoclusters/carbon and the effect of N-doping. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8172-8177.	10.3	7
12	Single metal atoms catalysts “Promising candidates for next generation energy storage and conversion devices. <i>EcoMat</i> , 2022, 4, .	11.9	28
13	Three-dimensional knotting of W ₁₇ O ₄₇ @PEDOT:PSS nanowires enables high-performance flexible cathode for dual-functional electrochromic and electrochemical device. <i>Informa Mater</i> , 2022, 4, .	17.3	26
14	One-pot hydrothermal synthesis of fluorescent carbon quantum dots with tunable emission color for application in electroluminescence detection of dopamine. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100141.	1.7	3
15	Zincophilic 3D ZnOHF nanowire arrays with ordered and continuous Zn ²⁺ Ion modulation layer enable long-term stable Zn metal anodes. <i>Energy Storage Materials</i> , 2022, 50, 435-443.	18.0	28
16	Quench-tailored Al-doped V ₂ O ₅ nanomaterials for efficient aqueous zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 70, 52-58.	12.9	46
17	Degradable Cross-Linked Collagen Fiber/MXene Composite Aerogels as a High-Performing Sensitive Pressure Sensor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1408-1418.	6.7	38
18	Hierarchically porous interlayer for highly permeable and fouling-resistant ceramic membranes in water treatment. <i>Separation and Purification Technology</i> , 2022, 293, 121092.	7.9	10

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19	Freestanding Metal-Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion. <i>Chemical Reviews</i> , 2022, 122, 10087-10125.	47.7	126
20	Aggregation-Induced Luminescence Based UiO-66: Highly Selective Fast-Response Styrene Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22510-22520.	8.0	13
21	Wafer-scale solution-processed 2D material analog resistive memory array for memory-based computing. <i>Nature Communications</i> , 2022, 13, .	12.8	60
22	3D spray-coated gradient profile ceramic membranes enables improved filtration performance in aerobic submerged membrane bioreactor. <i>Water Research</i> , 2022, 220, 118661.	11.3	4
23	Melded ceramic membranes: A novel fabrication method for ultrathin alumina membranes of high performance. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6554-6569.	3.8	3
24	Direct ink writing of programmable functional silicone-based composites for 4D printing applications. , 2022, 1, 507-516.		25
25	Origin of giant electric-field-induced strain in faulted alkali niobate films. <i>Nature Communications</i> , 2022, 13, .	12.8	11
26	Electrospun Nanofibers for New Generation Flexible Energy Storage. <i>Energy and Environmental Materials</i> , 2021, 4, 502-521.	12.8	57
27	In-situ surface self-reconstruction in ternary transition metal dichalcogenide nanorod arrays enables efficient electrocatalytic oxygen evolution. <i>Journal of Energy Chemistry</i> , 2021, 55, 10-16.	12.9	28
28	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO ₂ adsorption. <i>Chemical Engineering Journal</i> , 2021, 403, 126333.	12.7	78
29	Fiber-in-tube and particle-in-tube hierarchical nanostructures enable high energy density of MnO ₂ -based asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 543-551.	9.4	20
30	Efficient Hydrogen Evolution of Oxidized Ni ₃ Defective Sites for Alkaline Freshwater and Seawater Electrolysis. <i>Advanced Materials</i> , 2021, 33, e2003846.	21.0	198
31	Design strategies for MOF-derived porous functional materials: Preserving surfaces and nurturing pores. <i>Journal of Materiomics</i> , 2021, 7, 440-459.	5.7	62
32	Ultrathin TiO ₂ microfiltration membranes supported on a holey intermediate layer to raise filtration performance. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1622-1628.	5.7	11
33	Direct Pyrolysis of a Manganese-Triazolate Metal-Organic Framework into Air-Stable Manganese Nitride Nanoparticles. <i>Advanced Science</i> , 2021, 8, 2003212.	11.2	13
34	Unravelling V ₆ O ₁₃ Diffusion Pathways via CO ₂ Modification for High-Performance Zinc Ion Battery Cathode. <i>ACS Nano</i> , 2021, 15, 1273-1281.	14.6	67
35	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021, 5, 89-114.	24.0	137
36	Activating inverse spinel NiCo ₂ O ₄ embedded in N-doped carbon nanofibers via Fe substitution for bifunctional oxygen electrocatalysis. <i>Materials Today Physics</i> , 2021, 17, 100353.	6.0	29

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37	Efficient Water Splitting System Enabled by Multifunctional Platinum-Free Electrocatalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2009853.	14.9	41
38	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>ACS Catalysis</i> , 2021, 11, 4498-4509.	11.2	94
39	Fabrication of 3D-Printed Ceramic Structures for Portable Solar Desalination Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23220-23229.	8.0	42
40	Dynamic Surface Chemistry of Catalysts in Oxygen Evolution Reaction. <i>Small Science</i> , 2021, 1, 2100011.	9.9	59
41	Aqueous Rechargeable Multivalent Metal-Ion Batteries: Advances and Challenges. <i>Advanced Energy Materials</i> , 2021, 11, 2100608.	19.5	122
42	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021, 12, 2841.	12.8	19
43	Overcoming the Trade-off between Water Permeation and Mechanical Strength of Ceramic Membrane Supports by Interfacial Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29199-29211.	8.0	26
44	Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. <i>Molecules</i> , 2021, 26, 3331.	3.8	26
45	Synergizing aliovalent doping and interface in heterostructured NiV nitride@oxyhydroxide core-shell nanosheet arrays enables efficient oxygen evolution. <i>Nano Energy</i> , 2021, 85, 105961.	16.0	55
46	Quasi-Paired Pt Atomic Sites on Mo ₂ C Promoting Selective Four-Electron Oxygen Reduction. <i>Advanced Science</i> , 2021, 8, e2101344.	11.2	29
47	Black Phosphorus@Ti ₃ C ₂ T _x MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. <i>ACS Nano</i> , 2021, 15, 12975-12987.	14.6	70
48	Ultrahigh piezoelectric coefficients of Li-doped (K,Na)NbO ₃ nanorod arrays with manipulated O-T phase boundary: Towards energy harvesting and self-powered human movement monitoring. <i>Nano Energy</i> , 2021, 86, 106072.	16.0	15
49	Recent progress in self-supported nanoarrays with diverse substrates for water splitting and beyond. <i>Materials Today Nano</i> , 2021, 15, 100120.	4.6	11
50	Recent progress, developing strategies, theoretical insights, and perspectives towards high-performance copper single atom electrocatalysts. <i>Materials Today Energy</i> , 2021, 21, 100761.	4.7	8
51	Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. <i>Energy Storage Materials</i> , 2021, 41, 240-247.	18.0	16
52	Large-area multifunctional electro-chromic-chemical device made of W17O47 nanowires by Zn ²⁺ ion intercalation. <i>Nano Energy</i> , 2021, 89, 106356.	16.0	33
53	Unlocking the synergy of interface and oxygen vacancy by core-shell nickel phosphide@oxyhydroxide nanosheets arrays for accelerating alkaline oxygen evolution kinetics. <i>Chemical Engineering Journal</i> , 2021, 425, 131491.	12.7	25
54	Manipulating Interfaces of Electrocatalysts Down to Atomic Scales: Fundamentals, Strategies, and Electrocatalytic Applications. <i>Small Methods</i> , 2021, 5, e2001010.	8.6	35

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55	Solar-Driven Gas-Phase Moisture to Hydrogen with Zero Bias. ACS Nano, 2021, 15, 19119-19127.	14.6	16
56	Fabrication of (NH ₄) ₂ V ₃ O ₈ nanoparticles encapsulated in amorphous carbon for high capacity electrodes in aqueous zinc ion batteries. Chemical Engineering Journal, 2020, 382, 122844.	12.7	164
57	Chemical-grafting of graphene oxide quantum dots (GOQDs) onto ceramic microfiltration membranes for enhanced water permeability and anti-organic fouling potential. Applied Surface Science, 2020, 502, 144128.	6.1	50
58	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. Energy Storage Materials, 2020, 24, 336-342.	18.0	105
59	One-dimensional and two-dimensional synergized nanostructures for high-performing energy storage and conversion. Informa <i>Materials</i> , 2020, 2, 3-32.	17.3	206
60	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. Energy Storage Materials, 2020, 25, 124-130.	18.0	100
61	Effect of gradient profile in ceramic membranes on filtration characteristics: Implications for membrane development. Journal of Membrane Science, 2020, 595, 117576.	8.2	42
62	Low-loss and temperature-stable negative permittivity in La _{0.5} Sr _{0.5} MnO ₃ ceramics. Journal of the European Ceramic Society, 2020, 40, 1917-1921.	5.7	38
63	Hollow structure engineering of FeCo alloy nanoparticles electrospun in nitrogen-doped carbon enables high performance flexible all-solid-state zinc-air batteries. Sustainable Energy and Fuels, 2020, 4, 1747-1753.	4.9	36
64	Combinational Design of Electronic Structure and Nanoarray Architecture Achieves a Low-Overpotential Oxygen Electrode for Aprotic Lithium-Oxygen Batteries. Small Methods, 2020, 4, 1900619.	8.6	15
65	Stitching of Zn ₃ (OH) ₂ V ₂ O ₇ ·2H ₂ O 2D Nanosheets by 1D Carbon Nanotubes Boosts Ultrahigh Rate for Wearable Quasi-Solid-State Zinc-Ion Batteries. ACS Nano, 2020, 14, 842-853.	14.6	183
66	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. ACS Nano, 2020, 14, 937-947.	14.6	101
67	Cage-confinement pyrolysis route to size-controlled molybdenum-based oxygen electrode catalysts: From isolated atoms to clusters and nanoparticles. Nano Energy, 2020, 67, 104288.	16.0	93
68	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. Energy and Environmental Science, 2020, 13, 229-237.	30.8	78
69	A sacrificial Zn strategy enables anchoring of metal single atoms on the exposed surface of holey 2D molybdenum carbide nanosheets for efficient electrocatalysis. Journal of Materials Chemistry A, 2020, 8, 3071-3082.	10.3	48
70	Highly permeable Al ₂ O ₃ microfiltration membranes with holey interior structure achieved through sacrificial C particles. Journal of the American Ceramic Society, 2020, 103, 3361-3372.	3.8	11
71	Hydrogenated TiO ₂ membrane with photocatalytically enhanced anti-fouling for ultrafiltration of surface water. Applied Catalysis B: Environmental, 2020, 264, 118528.	20.2	37
72	Alumina double-layered ultrafiltration membranes with enhanced water flux. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124324.	4.7	9

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73	Recent Progress in Two-Dimensional Layered Double Hydroxides and Their Derivatives for Supercapacitors. <i>ChemSusChem</i> , 2020, 13, 1226-1254.	6.8	94
74	Interfacial diffusion assisted chemical deposition (ID-CD) for confined surface modification of alumina microfiltration membranes toward high-flux and anti-fouling. <i>Separation and Purification Technology</i> , 2020, 235, 116177.	7.9	27
75	MOF-derived manganese oxide/carbon nanocomposites with raised capacitance for stable asymmetric supercapacitor. <i>RSC Advances</i> , 2020, 10, 34403-34412.	3.6	24
76	Nanohollow Carbon for Rechargeable Batteries: Ongoing Progresses and Challenges. <i>Nano-Micro Letters</i> , 2020, 12, 183.	27.0	45
77	Flexible quasi-solid-state aqueous Zn-based batteries: rational electrode designs for high-performance and mechanical flexibility. <i>Materials Today Energy</i> , 2020, 18, 100523.	4.7	42
78	Synergizing in-grown Ni ₃ N/Ni heterostructured core and ultrathin Ni ₃ N surface shell enables self-adaptive surface reconfiguration and efficient oxygen evolution reaction. <i>Nano Energy</i> , 2020, 78, 105355.	16.0	126
79	Flexible supercapacitor of high areal performance with vanadium/cobalt oxides on carbon nanofibers as a binder-free membrane electrode. <i>Chemical Engineering Journal</i> , 2020, 402, 126294.	12.7	67
80	Porous NiCo ₂ S ₄ /FeOOH nanowire arrays with rich sulfide/hydroxide interfaces enable high OER activity. <i>Nano Energy</i> , 2020, 78, 105230.	16.0	121
81	Phosphorus-Based Electrocatalysts: Black Phosphorus, Metal Phosphides, and Phosphates. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000676.	3.7	35
82	Encapsulating Oxygen-Deficient TiNb ₂₄ O ₆₂ Microspheres by N-Doped Carbon Nanolayer Boosts Capacity and Stability of Lithium-Ion Battery. <i>Batteries and Supercaps</i> , 2020, 3, 1360-1369.	4.7	10
83	Manipulating unidirectional fluid transportation to drive sustainable solar water extraction and brine-drenching induced energy generation. <i>Energy and Environmental Science</i> , 2020, 13, 4891-4902.	30.8	162
84	Key issues facing electrospun carbon nanofibers in energy applications: on-going approaches and challenges. <i>Nanoscale</i> , 2020, 12, 13225-13248.	5.6	63
85	Bifunctional Oxygen Electrocatalyst of Mesoporous Ni/NiO Nanosheets for Flexible Rechargeable Zn-Air Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 68.	27.0	103
86	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of γ -CoOOH in a Heterostructured Co-Mo ₂ C Precatalyst Enable Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 4411-4419.	11.2	174
87	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118889.	20.2	95
88	Zn ²⁺ Pre-Intercalation Stabilizes the Tunnel Structure of MnO ₂ Nanowires and Enables Zinc-Ion Hybrid Supercapacitor of Battery-Level Energy Density. <i>Small</i> , 2020, 16, e2000091.	10.0	139
89	MnO ₂ as an effective sintering aid for difficult-to-sinter LiTaO ₃ -based ceramics: Densification and dielectric properties. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154546.	5.5	9
90	Electrochemiluminescence Detection of Sunset Yellow by Graphene Quantum Dots. <i>Frontiers in Chemistry</i> , 2020, 8, 505.	3.6	13

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91	Surface engineered alumina microfiltration membranes based on rationally constructed core-shell particles. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5951-5958.	5.7	20
92	Synergizing Mo Single Atoms and Mo ₂ C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N ₂ Reduction to Ammonia. <i>Advanced Materials</i> , 2020, 32, e2002177.	21.0	190
93	NH ₄ V ₃ O ₈ ·0.5H ₂ O nanobelts with intercalated water molecules as a high performance zinc ion battery cathode. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1434-1443.	5.9	81
94	Freeze-dried graphene oxide modified with trimethylhexamethylene in the mix solvent for improved anti-corrosion property of epoxy. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49139.	2.6	3
95	Single atom catalysts: a surface heterocompound perspective. <i>Nanoscale Horizons</i> , 2020, 5, 757-764.	8.0	39
96	Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2020, 32, e1904415.	21.0	34
97	Quasi-solid-state fiber-shaped aqueous energy storage devices: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6406-6433.	10.3	47
98	Single Atom Electrocatalysis: Heterogeneous Single Atom Electrocatalysis, Where "Singles" Are "Married". (<i>Adv. Energy Mater.</i> 9/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070037.	19.5	5
99	A negative-feedback loop maintains optimal chemokine concentrations for directional cell migration. <i>Nature Cell Biology</i> , 2020, 22, 266-273.	10.3	40
100	Epsilon-negative BaTiO ₃ /Cu composites with high thermal conductivity and yet low electrical conductivity. <i>Journal of Materiomics</i> , 2020, 6, 145-151.	5.7	58
101	Heterogeneous Single Atom Electrocatalysis, Where "Singles" Are "Married". <i>Advanced Energy Materials</i> , 2020, 10, 1903181.	19.5	113
102	Assembling of Bi atoms on TiO ₂ nanorods boosts photoelectrochemical water splitting of semiconductors. <i>Nanoscale</i> , 2020, 12, 4302-4308.	5.6	49
103	Recent advances and future perspectives for graphene oxide reinforced epoxy resins. <i>Materials Today Communications</i> , 2020, 23, 100883.	1.9	53
104	Interfacial dielectric layer as an origin of polarization fatigue in ferroelectric capacitors. <i>Scientific Reports</i> , 2020, 10, 7310.	3.3	19
105	Water Permeation through Conical Nanopores: Complex Interplay between Surface Roughness and Chemistry. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000025.	2.8	6
106	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. <i>Journal of Membrane Science</i> , 2020, 606, 118138.	8.2	53
107	Metal-Organic Frameworks (MOFs)-boosted filtration membrane technology for water sustainability. <i>APL Materials</i> , 2020, 8, .	5.1	54
108	Robust pure copper framework by extrusion 3D printing for advanced lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9058-9067.	10.3	51

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109	Lithiophilic polymer interphase anchored on laser-punched 3D holey Cu matrix enables uniform lithium nucleation leading to super-stable lithium metal anodes. <i>Energy Storage Materials</i> , 2020, 29, 84-91.	18.0	64
110	(Ni,Co)Se ₂ /NiCo-LDH Core/Shell Structural Electrode with the Cactus-Like (Ni,Co)Se ₂ Core for Asymmetric Supercapacitors. <i>Small</i> , 2019, 15, e1803895.	10.0	203
111	Decorating Co/CoN _x nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019, 16, 243-250.	18.0	244
112	In situ electrochemical oxidation of electrodeposited Ni-based nanostructure promotes alkaline hydrogen production. <i>Nanotechnology</i> , 2019, 30, 474001.	2.6	5
113	Rice husk-derived Mn ₃ O ₄ /manganese silicate/C nanostructured composites for high-performance hybrid supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2788-2800.	6.0	56
114	Designing Energy Materials via Atomic-resolution Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1998-1999.	0.4	1
115	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019, 10, 3149.	12.8	42
116	CuCo ₂ S ₄ Nanosheets@N-Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasi-Solid-State Zn-Air Batteries. <i>Advanced Science</i> , 2019, 6, 1900628.	11.2	123
117	Significant Role of Al in Ternary Layered Double Hydroxides for Enhancing Electrochemical Performance of Flexible Asymmetric Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1903879.	14.9	228
118	In situ coupled amorphous cobalt nitride with nitrogen-doped graphene aerogel as a trifunctional electrocatalyst towards Zn-air battery driven full water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118100.	20.2	120
119	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019, 9, 10166-10173.	11.2	284
120	Heterogeneous ZIF-L membranes with improved hydrophilicity and anti-bacterial adhesion for potential application in water treatment. <i>RSC Advances</i> , 2019, 9, 1591-1601.	3.6	51
121	Room-temperature H ₂ gasochromic behavior of Pd-modified MoO ₃ nanowire labels. <i>Materials Chemistry and Physics</i> , 2019, 227, 111-116.	4.0	21
122	Ceramic-based membranes for water and wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123513.	4.7	179
123	Enlarged Interlayer Spacing in Cobalt-Manganese Layered Double Hydroxide Guiding Transformation to Layered Structure for High Supercapacitance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23236-23243.	8.0	85
124	Microstructural Origins of High Piezoelectric Performance: A Pathway to Practical Lead-Free Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1902911.	14.9	58
125	3D-Printing of Pure Metal-Organic Framework Monoliths. , 2019, 1, 147-153.		80
126	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019, 23, 375-382.	18.0	47

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127	Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating. <i>Advanced Materials</i> , 2019, 31, e1901124.	21.0	15
128	Strong Charge Transfer at 2H \rightarrow 1T Phase Boundary of MoS ₂ for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131.	10.0	53
129	Cu and Co nanoparticle-Co-decorated N-doped graphene nanosheets: a high efficiency bifunctional electrocatalyst for rechargeable Zn \rightarrow air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12851-12858.	10.3	50
130	Enhancing water permeation through alumina membranes by changing from cylindrical to conical nanopores. <i>Nanoscale</i> , 2019, 11, 9869-9878.	5.6	25
131	Conformal dispersed cobalt nanoparticles in hollow carbon nanotube arrays for flexible Zn-air and Al-air batteries. <i>Chemical Engineering Journal</i> , 2019, 369, 988-995.	12.7	121
132	Nanowires versus nanosheets \rightarrow Effects of NiCo ₂ O ₄ nanostructures on ceramic membrane permeability and fouling potential. <i>Separation and Purification Technology</i> , 2019, 215, 644-651.	7.9	13
133	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1803768.	19.5	204
134	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. <i>Nano Letters</i> , 2019, 19, 3057-3065.	9.1	13
135	High-performance B ₄ C \rightarrow TiB ₂ \rightarrow SiC composites with tuneable properties fabricated by reactive hot pressing. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2995-3002.	5.7	55
136	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019, 15, e1900248.	10.0	57
137	Hierarchical Micro \rightarrow Nano Sheet Arrays of Nickel \rightarrow Cobalt Double Hydroxides for High \rightarrow Rate Ni \rightarrow Zn Batteries. <i>Advanced Science</i> , 2019, 6, 1802002.	11.2	202
138	Z-scheme carbon-bridged Bi ₂ O ₃ /TiO ₂ nanotube arrays to boost photoelectrochemical detection performance. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 255-263.	20.2	85
139	Photosynthetic apparatus of <i>Rhodobacter sphaeroides</i> exhibits prolonged charge storage. <i>Nature Communications</i> , 2019, 10, 902.	12.8	40
140	A theoretical study of permeability enhancement for ultrafiltration ceramic membranes with conical pores and slippage. <i>Physics of Fluids</i> , 2019, 31, .	4.0	12
141	Polymorphism in M(H ₂ PO ₂) ₃ (M = V, Al, Ga) compounds with the perovskite-related ReO ₃ structure. <i>Chemical Communications</i> , 2019, 55, 2964-2967.	4.1	15
142	Phospho-oxynitride Layer Protected Cobalt Phosphonitride Nanowire Arrays for High-Rate and Stable Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 616-626.	5.1	16
143	Flexible and Wearable All-Solid-State Al \rightarrow Air Battery Based on Iron Carbide Encapsulated in Electrospun Porous Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1988-1995.	8.0	56
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