

Meng Gu

List of Publications by Year in descending order

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235
papers

21,748
citations

6592

79
h-index

10424

139
g-index

239
all docs

239
docs citations

239
times ranked

21574
citing authors

#	ARTICLE	IF	CITATIONS
1	Observing sodiation process and achieving high efficiency of yolk-shell antimony@carbon rods. <i>Science China Materials</i> , 2022, 65, 349-355.	3.5	1
2	Revealing the Fast and Durable Na ⁺ Insertion Reactions in a Layered Na ₃ Fe ₃ (PO ₄) ₄ Anode for Aqueous Na-Ion Batteries. <i>ACS Materials Au</i> , 2022, 2, 63-71.	2.6	7
3	Insight into the Activity and Selectivity of Nanostructured Copper Titanates during Electrochemical Conversion of CO ₂ at Neutral pH via In Situ X-ray Absorption Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2742-2753.	4.0	8
4	Single atom surface engineering: A new strategy to boost electrochemical activities of Pt catalysts. <i>Nano Energy</i> , 2022, 93, 106813.	8.2	41
5	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO ₂ -Containing Products in Li-O ₂ Batteries Using Cryogenic Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 2129-2136.	6.6	28
6	Yolk-Shell Antimony/Carbon: Scalable Synthesis and Structural Stability Study in Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
7	Insights into the Determining Effect of Carbon Support Properties on Anchoring Active Sites in Fe-N-C Catalysts toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2022, 12, 1601-1613.	5.5	39
8	Photocatalytic degradation of methylene blue (MB) with Cu ₁ ZnO single atom catalysts on graphene-coated flexible substrates. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6231-6241.	5.2	32
9	Ultrathin polycrystalline Co ₃ O ₄ nanosheets with enriched oxygen vacancies for efficient electrochemical oxygen evolution and 5-hydroxymethylfurfural oxidation. <i>Applied Surface Science</i> , 2022, 584, 152553.	3.1	28
10	Band Engineering Induced Conducting 2H-Phase MoS ₂ by Pd _{1-x} Si _x Re Sites Modification for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	37
11	Surface oxygenation induced strong interaction between Pd catalyst and functional support for zinc-air batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1573-1584.	15.6	49
12	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-Based Electrolyte. <i>Advanced Materials</i> , 2022, 34, e2108252.	11.1	20
13	Organic frameworks confined Cu single atoms and nanoclusters for tandem electrocatalytic CO ₂ reduction to methane. <i>SmartMat</i> , 2022, 3, 183-193.	6.4	35
14	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-Based Electrolyte (Adv. Mater. 13/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	2
15	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO ₂ functionalization. <i>Nano Research</i> , 2022, 15, 2994-3000.	5.8	13
16	Enabling Ultrastable Alkali Metal Anodes by Artificial Solid Electrolyte Interphase Fluorination. <i>Nano Letters</i> , 2022, 22, 4347-4353.	4.5	24
17	Atomically dispersed Pt and Fe sites and Pt-Fe nanoparticles for durable proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2022, 5, 503-512.	16.1	155
18	Vacancy and Composition Engineering of Manganese Hexacyanoferrate for Sodium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 8547-8553.	2.5	5

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19	Bismuth Ferrite as an Electrocatalyst for the Electrochemical Nitrate Reduction. Nano Letters, 2022, 22, 5600-5606.	4.5	35
20	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State LiO ₂ Batteries. Angewandte Chemie, 2021, 133, 1.6 5885-5890.	1.6	14
21	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State LiO ₂ Batteries. Angewandte Chemie - International Edition, 2021, 60, 5821-5826.	1.6	47
22	Electric Polarization Switching on an Atomically Thin Metallic Oxide. Nano Letters, 2021, 21, 144-150.	4.5	19
23	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO Nanosheets. ACS Catalysis, 2021, 11, 123-130.	5.5	138
24	Additive stabilization of SEI on graphite observed using cryo-electron microscopy. Energy and Environmental Science, 2021, 14, 4882-4889.	15.6	73
25	New Insight of Pyrrole-Like Nitrogen for Boosting Hydrogen Evolution Activity and Stability of Pt Single Atoms. Small, 2021, 17, e2004453.	5.2	38
26	Studies on the Sodium Storage Performances of Na ₃ Al ₂ V ₂ (PO ₄) ₃ @C Composites from Calculations and Experimental Analysis. ACS Applied Energy Materials, 2021, 4, 1120-1129.	2.5	15
27	Cu ₃ Pd _x N nanocrystals for efficient CO ₂ electrochemical reduction to methane. Electrochimica Acta, 2021, 371, 137793.	2.6	6
28	Poor Stability of Li ₂ CO ₃ in the Solid Electrolyte Interphase of a Lithium-Metal Anode Revealed by Cryo-Electron Microscopy. Advanced Materials, 2021, 33, e2100404.	11.1	147
29	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. Nano Letters, 2021, 21, 3633-3639.	4.5	32
30	Stable Lithium Metal Anodes with a GaO Artificial Solid Electrolyte Interphase in Damp Air. ACS Applied Materials & Interfaces, 2021, 13, 21467-21473.	4.0	9
31	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. Nature Communications, 2021, 12, 3066.	5.8	92
32	Engineering Pt and Fe dual-metal single atoms anchored on nitrogen-doped carbon with high activity and durability towards oxygen reduction reaction for zinc-air battery. Applied Catalysis B: Environmental, 2021, 286, 119891.	10.8	122
33	Dual-Doping and Synergism toward High-Performance Seawater Electrolysis. Advanced Materials, 2021, 33, e2101425.	11.1	161
34	Enhanced Light Emission Performance of Mixed Cation Perovskite Films—The Effect of Solution Stoichiometry on Crystallization. Advanced Optical Materials, 2021, 9, 2100393.	3.6	6
35	Ultralow Volume Change of P ₂ -Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na ⁺ . Angewandte Chemie - International Edition, 2021, 60, 20960-20969.	7.2	59
36	Ultralow Volume Change of P ₂ -Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na ⁺ . Angewandte Chemie, 2021, 133, 21128-21137.	1.6	15

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37	Single Iridium Atom Doped Ni ₂ P Catalyst for Optimal Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 13605-13615.	6.6	162
38	Ferroelectricity and Ferromagnetism Achieved via Adjusting Dimensionality in BiFeO ₃ /BiMnO ₃ Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41315-41322.	4.0	8
39	Single-atom catalyst for high-performance methanol oxidation. <i>Nature Communications</i> , 2021, 12, 5235.	5.8	113
40	Single-atom Bi-anchored Au hydrogels with specifically boosted peroxidase-like activity for cascade catalysis and sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130108.	4.0	29
41	Design Principles of Sodium/Potassium Protection Layer for High-Power High-Energy Sodium/Potassium-Metal Batteries in Carbonate Electrolytes: a Case Study of Na ₂ Te/K ₂ Te. <i>Advanced Materials</i> , 2021, 33, e2106353.	11.1	82
42	Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. <i>Applied Materials Today</i> , 2021, 24, 101101.	2.3	3
43	Enabling Atomic-Scale Imaging of Sensitive Potassium Metal and Related Solid Electrolyte Interphases Using Ultralow-Dose Cryo-TEM. <i>Advanced Materials</i> , 2021, 33, e2102666.	11.1	19
44	Doping-modulated strain control of bifunctional electrocatalysis for rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2021, 14, 5035-5043.	15.6	39
45	Conformal three-dimensional interphase of Li metal anode revealed by low-dose cryoelectron microscopy. <i>Matter</i> , 2021, 4, 3741-3752.	5.0	37
46	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021, 33, e2102562.	11.1	54
47	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley-Roth Phase Fe-Nb Oxides with a Desolvation Promoting Interfacial Layer. <i>Nano Letters</i> , 2021, 21, 9675-9683.	4.5	17
48	Superflexible Freestanding BiMnO ₃ Membranes with Stable Ferroelectricity and Ferromagnetism. <i>Advanced Science</i> , 2021, 8, e2102178.	5.6	23
49	Probing atomic structure of beam-sensitive energy materials in their native states using cryogenic transmission electron microscopes. <i>IScience</i> , 2021, 24, 103385.	1.9	5
50	Clarifying the Roles of Cobalt and Nickel in the Structural Evolution of Layered Cathodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2021, 21, 9619-9624.	4.5	13
51	Enhanced Oxygen Evolution Reaction Electrocatalysis on Co(OH) ₂ @MnO ₂ Decorated Carbon Nanoarrays: Effect of Heterostructure, Conductivity and Charge Storage Capability. <i>Journal of the Electrochemical Society</i> , 2021, 168, 114515.	1.3	1
52	A general strategy for preparing pyrrolic-N ₄ type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021, 12, 6806.	5.8	81
53	Improving Pd-N-C fuel cell electrocatalysts through fluorination-driven rearrangements of local coordination environment. <i>Nature Energy</i> , 2021, 6, 1144-1153.	19.8	108
54	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoO Nanosheets. <i>ACS Catalysis</i> , 2021, 11, 15135-15140.	5.5	144

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55	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12187-12195.	2.1	4
56	Three-dimensional visualization of lithium metal anode via low-dose cryogenic electron microscopy tomography. <i>IScience</i> , 2021, 24, 103418.	1.9	6
57	Co single-atom anchored on Co ₃ O ₄ and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118188.	10.8	163
58	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2020, 30, 1907658.	7.8	210
59	N-doping induced tensile-strained Pt nanoparticles ensuring an excellent durability of the oxygen reduction reaction. <i>Journal of Catalysis</i> , 2020, 382, 247-255.	3.1	61
60	Single-Atom Ir-Anchored 3D Amorphous NiFe Nanowire@Nanosheets for Boosted Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3539-3546.	4.0	39
61	Realizing high-efficiency power generation in low-cost PbS-based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020, 13, 579-591.	15.6	101
62	Biomimetic photocatalytic sulfonation of alkenes to access α -ketosulfones with single-atom iron site. <i>Green Chemistry</i> , 2020, 22, 230-237.	4.6	56
63	Sub-3 nm Intermetallic Ordered Pt ₃ In Clusters for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2020, 7, 1901279.	5.6	57
64	Atomic-scale tuning of oxygen-doped Bi ₂ Te _{2.7} Se _{0.3} to simultaneously enhance the Seebeck coefficient and electrical conductivity. <i>Nanoscale</i> , 2020, 12, 1580-1588.	2.8	23
65	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. <i>ACS Energy Letters</i> , 2020, 5, 200-206.	8.8	44
66	Carbon Monoxide Gas Induced 4H-to-fcc Phase Transformation of Gold As Revealed by <i>In-Situ</i> Transmission Electron Microscopy. <i>Inorganic Chemistry</i> , 2020, 59, 14415-14423.	1.9	4
67	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. <i>Cell Reports Physical Science</i> , 2020, 1, 100115.	2.8	26
68	MnPS ₃ spin-flop transition-induced anomalous Hall effect in graphite flake via van der Waals proximity coupling. <i>Nanoscale</i> , 2020, 12, 23266-23273.	2.8	10
69	Extension of Compositional Space to the Ternary in Alloy Chiral Nanoparticles through Galvanic Replacement Reactions. <i>Advanced Science</i> , 2020, 7, 2001321.	5.6	13
70	Boosting the oxygen evolution reaction using defect-rich ultra-thin ruthenium oxide nanosheets in acidic media. <i>Energy and Environmental Science</i> , 2020, 13, 5143-5151.	15.6	159
71	Probing the electrochemical evolutions of Na ⁺ /CO ₂ nanobatteries on Pt@NCNT cathodes using in-situ environmental TEM. <i>Energy Storage Materials</i> , 2020, 33, 88-94.	9.5	17
72	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020, 5, 684-692.	19.8	365

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73	Boosting alkaline hydrogen evolution: the dominating role of interior modification in surface electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 3110-3118.	15.6	87
74	Investigation of the influences of heat treatment on the microstructures and thermal properties of Al-20Si alloy fabricated by powder extrusion. <i>Materials Characterization</i> , 2020, 168, 110522.	1.9	7
75	Antisymmetric Magnetoresistance in a van der Waals Antiferromagnetic/Ferromagnetic Layered MnPS ₃ /Fe ₃ GeTe ₂ Stacking Heterostructure. <i>ACS Nano</i> , 2020, 14, 12037-12044.	7.3	52
76	500 Wh kg ⁻¹ Class Li Metal Battery Enabled by a Self-Organized Core-Shell Composite Anode. <i>Advanced Materials</i> , 2020, 32, e2004793.	11.1	86
77	Nickel confined in 2D earth-abundant oxide layers for highly efficient and durable oxygen evolution catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13340-13350.	5.2	6
78	Tunable Plasmon-Induced Charge Transport and Photon Absorption of Bimetallic Au-Ag Nanoparticles on ZnO Photoanode for Photoelectrochemical Enhancement under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14105-14117.	1.5	23
79	Realizing record high performance in n-type Bi ₂ Te ₃ -based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020, 13, 2106-2114.	15.6	249
80	Interrogation of the Reaction Mechanism in a Na-O ₂ Battery Using <i>In Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 3669-3677.	7.3	39
81	Reversible loss of core-shell structure for Ni-Au bimetallic nanoparticles during CO ₂ hydrogenation. <i>Nature Catalysis</i> , 2020, 3, 411-417.	16.1	186
82	Enhanced CO ₂ Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12664-12668.	7.2	164
83	Ultrahigh-Loading of Ir Single Atoms on NiO Matrix to Dramatically Enhance Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 7425-7433.	6.6	430
84	Phase-Controlled Synthesis of 2H/3R-MoSe ₂ Nanosheets on P-Doped Carbon for Synergistic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 6516-6523.	2.4	13
85	Atomic origin of CO-Interaction effect of PtPb@Pt catalyst revealed by in situ environmental transmission electron microscopy. <i>Nano Energy</i> , 2020, 76, 105099.	8.2	11
86	Phase Modulation and Chemical Activation of MoSe ₂ by Phosphorus for Electrocatalytic Hydrogen Evolution Reaction. <i>Energy Technology</i> , 2020, 8, 1901503.	1.8	16
87	Electrochemical Synthesis of Ammonia from Nitrogen Under Mild Conditions: Current Status and Challenges. <i>Electrochemical Energy Reviews</i> , 2020, 3, 239-270.	13.1	67
88	Fast Zn ²⁺ kinetics of vanadium oxide nanotubes in high-performance rechargeable zinc-ion batteries. <i>Journal of Power Sources</i> , 2020, 451, 227767.	4.0	20
89	Fabrication and Interfacial Electronic Structure of Wide Bandgap NiO and Ga ₂ O ₃ p-n Heterojunction. <i>ACS Applied Electronic Materials</i> , 2020, 2, 456-463.	2.0	66
90	Gas-assisted transformation of gold from fcc to the metastable 4H phase. <i>Nature Communications</i> , 2020, 11, 552.	5.8	17

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91	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 4029-4037.	4.5	78
92	Enhanced CO ₂ Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie</i> , 2020, 132, 12764-12768.	1.6	23
93	Direct atomic scale characterization of the surface structure and planar defects in the organic-inorganic hybrid CH ₃ NH ₃ PbI ₃ by Cryo-TEM. <i>Nano Energy</i> , 2020, 73, 104820.	8.2	35
94	High Safety and High Energy Density Lithium Metal Batteries in a Novel Ionic Liquid Electrolyte. <i>Advanced Materials</i> , 2020, 32, e2001741.	11.1	176
95	Local Coordination and Ordering Engineering to Design Efficient Core-Shell Oxygen Reduction Catalysts. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144501.	1.3	5
96	Wavelength-Dependent Solar N ₂ Fixation into Ammonia and Nitrate in Pure Water. <i>Research</i> , 2020, 2020, 3750314.	2.8	30
97	Synthesis of three-dimensional free-standing WSe ₂ /C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19898-19908.	5.2	35
98	Revealing the Chemical and Structural Evolution of V ₂ O ₅ Nanoribbons in Lithium-Ion Batteries Using in Situ Transmission Electron Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 11055-11062.	3.2	18
99	NASICON-type Na ₃ Fe ₂ (PO ₄) ₃ as a low-cost and high-rate anode material for aqueous sodium-ion batteries. <i>Nano Energy</i> , 2019, 64, 103941.	8.2	83
100	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019, 10, 3302.	5.8	173
101	Direct Observation of Yolk-Shell Transforming to Gold Single Atoms and Clusters with Superior Oxygen Evolution Reaction Efficiency. <i>ACS Nano</i> , 2019, 13, 8865-8871.	7.3	73
102	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019, 10, 4936.	5.8	371
103	Fast lithiation of NiO investigated by <i>in situ</i> transmission electron microscopy. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	8
104	CO Gas Induced Phase Separation in PtPb@Pt Catalyst and Formation of Ultrathin Pb Nanosheets Probed by In Situ Transmission Electron Microscopy. <i>Small</i> , 2019, 15, e1903122.	5.2	15
105	Interface engineering to enhance the oxygen evolution reaction under light irradiation. <i>Applied Physics Letters</i> , 2019, 115, 103901.	1.5	3
106	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. <i>ACS Catalysis</i> , 2019, 9, 9614-9621.	5.5	112
107	Oxygen vacancy-rich MoO _{3-x} nanobelts for photocatalytic N ₂ reduction to NH ₃ in pure water. <i>Catalysis Science and Technology</i> , 2019, 9, 803-810.	2.1	71
108	Highly stable single Pt atomic sites anchored on aniline-stacked graphene for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019, 12, 1000-1007.	15.6	392

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109	Mo modulation effect on the hydrogen binding energy of hexagonal-close-packed Ru for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2780-2786.	5.2	53
110	Stable cycling of mesoporous Sn ₄ P ₃ /SnO ₂ @C nanosphere anode with high initial coulombic efficiency for Li-ion batteries. <i>Energy Storage Materials</i> , 2019, 18, 125-132.	9.5	56
111	Thermoelectrics: Mg ₃ Sb ₂ Bi ₂ Family: A Promising Substitute for the State-of-the-Art n-type Thermoelectric Materials near Room Temperature (<i>Adv. Funct. Mater.</i> 4/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970020.	7.8	2
112	Comparison of TiO ₂ and g-C ₃ N ₄ 2D/2D nanocomposites from three synthesis protocols for visible-light induced hydrogen evolution. <i>Catalysis Science and Technology</i> , 2019, 9, 75-85.	2.1	43
113	Fe and N Co-Doped Porous Carbon Nanospheres with High Density of Active Sites for Efficient CO ₂ Electroreduction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16651-16659.	1.5	54
114	Light-triggered evolution of molecular clusters toward sub-nanoscale heterojunctions with high interface density. <i>Chemical Communications</i> , 2019, 55, 8146-8149.	2.2	2
115	Composition-dependent CO ₂ electrochemical reduction activity and selectivity on Au@Pd core-shell nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16954-16961.	5.2	56
116	Phthalocyanine Precursors To Construct Atomically Dispersed Iron Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 6252-6261.	5.5	61
117	Interconnected Vertically Stacked 2D-MoS ₂ for Ultrastable Cycling of Rechargeable Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20762-20769.	4.0	37
118	High-Performance and Reactivation Characteristics of High-Quality, Graphene-Supported SnS ₂ Heterojunctions for a Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22314-22322.	4.0	37
119	Metallic Glass Catalysts: Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance (<i>Adv. Funct. Mater.</i> 1/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1807857.	7.8	74
120	In Situ TEM of Phosphorus-Dopant-Induced Nanopore Formation in Delithiated Silicon Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17313-17320.	4.0	11
121	Ultra-stable 4H-gold nanowires up to 800 °C in a vacuum. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23812-23817.	5.2	14
122	The enhancement of thermoelectric performance of p-type Li doped Mg ₂ Ge _{0.4} Sn _{0.6} by Si addition. <i>Scripta Materialia</i> , 2019, 166, 122-127.	2.6	12
123	Failure mechanism of Au@Co ₉ S ₈ yolk-shell anode in Li-ion batteries unveiled by in-situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	30
124	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 61, 60-68.	8.2	192
125	Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1807857.	7.8	74
126	Probing the Origin of Gold Dissolution and Tunneling Across Ni ₂ P Shell Using in situ Transmission Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46947-46952.	4.0	2

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127	Real-Time Imaging of the Electrochemical Process in Na ⁺ O ₂ Nanobatteries Using Pt@CNT and Pt _{0.8} Ir _{0.2} @CNT Air Cathodes. ACS Nano, 2019, 13, 14399-14407.	7.3	16
128	Dumbbell to Core-Shell Structure Transformation of Ni-Au Nanoparticle Driven by External Stimuli. Particle and Particle Systems Characterization, 2019, 36, 1800426.	1.2	2
129	Composite nanofibers through in-situ reduction with abundant active sites as flexible and stable anode for lithium ion batteries. Composites Part B: Engineering, 2019, 161, 369-375.	5.9	24
130	Highly active and stable ruthenate pyrochlore for enhanced oxygen evolution reaction in acidic medium electrolysis. Applied Catalysis B: Environmental, 2019, 244, 494-501.	10.8	109
131	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. Small Methods, 2019, 3, 1800324.	4.6	41
132	One-Pot Synthesis of a Highly Active 3-Dimensional Fe-N _x -CNTs/rGO Composite Catalyst for Oxygen Reduction. ChemElectroChem, 2019, 6, 504-513.	1.7	4
133	Mg ₃ Sb _x Bi ₂ Family: A Promising Substitute for the State-of-the-Art n-Type Thermoelectric Materials near Room Temperature. Advanced Functional Materials, 2019, 29, 1807235.	7.8	98
134	Tracing the Origin of Visible Light Enhanced Oxygen Evolution Reaction. Advanced Materials Interfaces, 2019, 6, 1801543.	1.9	5
135	Ternary PtPdCu Multicubes as a Highly Active and Durable Catalyst toward the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1345-1349.	1.7	18
136	Creation and Ordering of Oxygen Vacancies at WO ₃ and Perovskite Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 17480-17486.	4.0	29
137	Designing principle for Ni-rich cathode materials with high energy density for practical applications. Nano Energy, 2018, 49, 434-452.	8.2	400
138	A robust electrochemical sensing platform using carbon paste electrode modified with molecularly imprinted microsphere and its application on methyl parathion detection. Biosensors and Bioelectronics, 2018, 106, 71-77.	5.3	63
139	Lithium-Ion Batteries: A Single-Step Hydrothermal Route to 3D Hierarchical Cu ₂ O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries (Small 5/2018). Small, 2018, 14, 1870020.	5.2	10
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