

Guihua Yu

List of Publications by Year in descending order

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papers

53,941
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906

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times ranked

42938
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensionality effect of conductive carbon fillers in LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ cathode. Carbon, 2022, 188, 114-125.	10.3	10
2	Highly Elastic Interconnected Porous Hydrogels through Self-Assembled Templating for Solar Water Purification. Angewandte Chemie, 2022, 134, e202114074.	2.0	16
3	Organic Electrolytes for pH-Neutral Aqueous Organic Redox Flow Batteries. Advanced Functional Materials, 2022, 32, 2108777.	14.9	43
4	Highly Elastic Interconnected Porous Hydrogels through Self-Assembled Templating for Solar Water Purification. Angewandte Chemie - International Edition, 2022, 61, e202114074.	13.8	70
5	Polyzwitterionic Hydrogels for Efficient Atmospheric Water Harvesting. Angewandte Chemie, 2022, 134, .	2.0	11
6	Dual-Ion Flux Management for Stable High Areal Capacity Lithium-Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	14
7	Polyzwitterionic Hydrogels for Efficient Atmospheric Water Harvesting. Angewandte Chemie - International Edition, 2022, 61, .	13.8	95
8	Super Water-Extracting Gels for Solar-Powered Volatile Organic Compounds Management in the Hydrological Cycle. Advanced Materials, 2022, 34, e2110548.	21.0	50
9	Emerging Electrochemical Techniques for Probing Site Behavior in Single-Atom Electrocatalysts. Accounts of Chemical Research, 2022, 55, 759-769.	15.6	58
10	Materials Engineering for Atmospheric Water Harvesting: Progress and Perspectives. Advanced Materials, 2022, 34, e2110079.	21.0	106
11	Bio-Derived and Cost-Effective Membranes with High Selectivity for Redox Flow Batteries Based on Host-Guest Chemistry. Small, 2022, 18, e2107055.	10.0	6
12	Materials Innovation for Global Water Sustainability. , 2022, 4, 713-714.		20
13	Gradient Architecture Design in Scalable Porous Battery Electrodes. Nano Letters, 2022, 22, 2521-2528.	9.1	37
14	Low-Tortuosity Thick Electrodes with Active Materials Gradient Design for Enhanced Energy Storage. ACS Nano, 2022, 16, 4805-4812.	14.6	52
15	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification. Advanced Materials, 2022, 34, e2200865.	21.0	36
16	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. ACS Nano, 2022, 16, 8213-8222.	14.6	109
17	Hierarchically porous membranes for lithium rechargeable batteries: Recent progress and opportunities. EcoMat, 2022, 4, .	11.9	24
18	Porous Two-dimensional Iron-Cyano Nanosheets for High-rate Electrochemical Nitrate Reduction. ACS Nano, 2022, 16, 1072-1081.	14.6	89

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19	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv.) Tj ETQq1 1 0.784314 ggBT /Overl	21.0	14
20	General Synthesis of Large Inorganic Nanosheets via 2D Confined Assembly of Nanoparticles. ACS Central Science, 2022, 8, 627-635.	11.3	7
21	Design principles of hydrogen-evolution-suppressing single-atom catalysts for aqueous electrosynthesis. Chem Catalysis, 2022, 2, 1277-1287.	6.1	19
22	Revealing the Solid-State Electrolyte Interfacial Stability Model with Na-K Liquid Alloy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
23	Scalable super hygroscopic polymer films for sustainable moisture harvesting in arid environments. Nature Communications, 2022, 13, 2761.	12.8	91
24	Gradient Design for High-Energy and High-Power Batteries. Advanced Materials, 2022, 34, .	21.0	53
25	Revealing the Solid-State Electrolyte Interfacial Stability Model with Na-K Liquid Alloy. Angewandte Chemie, 2022, 134, .	2.0	3
26	Emerging chemistries and molecular designs for flow batteries. Nature Reviews Chemistry, 2022, 6, 524-543.	30.2	93
27	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. Journal of the American Chemical Society, 2022, 144, 11444-11455.	13.7	63
28	Multiscale Understanding and Architecture Design of High Energy/Power Lithium-Ion Battery Electrodes. Advanced Energy Materials, 2021, 11, 2000808.	19.5	143
29	Gel-Derived Amorphous Bismuth-Nickel Alloy Promotes Electrocatalytic Nitrogen Fixation via Optimizing Nitrogen Adsorption and Activation. Angewandte Chemie - International Edition, 2021, 60, 4275-4281.	13.8	90
30	Gel-Derived Amorphous Bismuth-Nickel Alloy Promotes Electrocatalytic Nitrogen Fixation via Optimizing Nitrogen Adsorption and Activation. Angewandte Chemie, 2021, 133, 4321-4327.	2.0	10
31	Insights into the Redox Chemistry of Organosulfides Towards Stable Molecule Design in Nonaqueous Energy Storage Systems. Angewandte Chemie, 2021, 133, 4368-4374.	2.0	5
32	Insights into the Redox Chemistry of Organosulfides Towards Stable Molecule Design in Nonaqueous Energy Storage Systems. Angewandte Chemie - International Edition, 2021, 60, 4322-4328.	13.8	18
33	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. Nature Materials, 2021, 20, 76-83.	27.5	432
34	Polyeutectic-based stable and effective electrolytes for high-performance energy storage systems. Energy and Environmental Science, 2021, 14, 931-939.	30.8	21
35	High-performance magnesium metal batteries via switching the passivation film into a solid electrolyte interphase. Energy and Environmental Science, 2021, 14, 4391-4399.	30.8	49
36	A General Strategy of Anion-Rich High-Concentration Polymeric Interlayer for High-Voltage, All-Solid-State Batteries. Nano Letters, 2021, 21, 1184-1191.	9.1	29

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37	Liquid Alloy Enabled Solidâ€‘State Batteries for Conformal Electrodeâ€‘Electrolyte Interfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2010863.	14.9	29
38	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithiumâ€‘Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2006629.	21.0	80
39	Pulverizing Fe ₂ O ₃ Nanoparticles for Developing Fe ₃ C/Nâ€‘Codoped Carbon Nanoboxes with Multiple Polysulfide Anchoring and Converting Activity in Liâ€‘S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2011249.	14.9	79
40	General Design Methodology for Organic Eutectic Electrolytes toward Highâ€‘Energyâ€‘Density Redox Flow Batteries. <i>Advanced Materials</i> , 2021, 33, e2008560.	21.0	25
41	Highâ€‘Yield and Lowâ€‘Cost Solar Water Purification via Hydrogelâ€‘Based Membrane Distillation. <i>Advanced Functional Materials</i> , 2021, 31, 2101036.	14.9	90
42	Covalent Coupling-Stabilized Transition-Metal Sulfide/Carbon Nanotube Composites for Lithium/Sodium-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 6735-6746.	14.6	95
43	Lithiumâ€‘Ion Batteries: Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithiumâ€‘Ion Batteries (<i>Adv. Mater.</i> 12/2021). <i>Advanced Materials</i> , 2021, 33, 2170093.	21.0	4
44	Engineering Hydrogels for Efficient Solar Desalination and Water Purification. <i>Accounts of Materials Research</i> , 2021, 2, 374-384.	11.7	92
45	From Fundamental Understanding to Engineering Design of Highâ€‘Performance Thick Electrodes for Scalable Energyâ€‘Storage Systems. <i>Advanced Materials</i> , 2021, 33, e2101275.	21.0	89
46	Solar Water Purification: Highâ€‘Yield and Lowâ€‘Cost Solar Water Purification via Hydrogelâ€‘Based Membrane Distillation (<i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170135.	14.9	4
47	Carbon Materials for Solar Water Evaporation and Desalination. <i>Small</i> , 2021, 17, e2007176.	10.0	186
48	Hybrid Electrolyte Engineering Enables Safe and Wideâ€‘Temperature Redox Flow Batteries. <i>Angewandte Chemie</i> , 2021, 133, 15155-15162.	2.0	3
49	Hybrid Electrolyte Engineering Enables Safe and Wideâ€‘Temperature Redox Flow Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15028-15035.	13.8	32
50	Design Principles and Applications of Nextâ€‘Generation Highâ€‘Energyâ€‘Density Batteries Based on Liquid Metals. <i>Advanced Materials</i> , 2021, 33, e2100052.	21.0	38
51	Novel Quasiâ€‘Liquid Kâ€‘Na Alloy as a Promising Dendriteâ€‘Free Anode for Rechargeable Potassium Metal Batteries. <i>Advanced Science</i> , 2021, 8, e2101866.	11.2	18
52	Multifunctional hydrogels for sustainable energy and environment. <i>Polymer International</i> , 2021, 70, 1425-1432.	3.1	33
53	Solar Water Evaporation Toward Water Purification and Beyond. , 2021, 3, 1112-1129.		107
54	A Chemistry and Microstructure Perspective on Ionâ€‘Conducting Membranes for Redox Flow Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24770-24798.	13.8	76

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55	Tunable Porous Electrode Architectures for Enhanced Li-Ion Storage Kinetics in Thick Electrodes. Nano Letters, 2021, 21, 5896-5904.	9.1	66
56	Anode Materials: Design Principles and Applications of Next-Generation High-Energy-Density Batteries Based on Liquid Metals (Adv. Mater. 29/2021). Advanced Materials, 2021, 33, 2170226.	21.0	1
57	A Chemistry and Microstructure Perspective on Ion-Conducting Membranes for Redox Flow Batteries. Angewandte Chemie, 2021, 133, 24974.	2.0	2
58	Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. Nature Communications, 2021, 12, 4519.	12.8	139
59	Understanding the inter-site distance effect in single-atom catalysts for oxygen electroreduction. Nature Catalysis, 2021, 4, 615-622.	34.4	336
60	Vertically aligned two-dimensional materials-based thick electrodes for scalable energy storage systems. Nano Research, 2021, 14, 3562-3575.	10.4	30
61	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. Nature Sustainability, 2021, 4, 868-876.	23.7	264
62	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. Advanced Materials, 2021, 33, e2102994.	21.0	105
63	Optimal electrode-scale design of Li-ion electrodes: A general correlation. Energy Storage Materials, 2021, 39, 176-185.	18.0	16
64	Ultrahigh-Capacity and Scalable Architected Battery Electrodes via Tortuosity Modulation. ACS Nano, 2021, 15, 19109-19118.	14.6	48
65	Balancing the mechanical, electronic, and self-healing properties in conductive self-healing hydrogel for wearable sensor applications. Materials Horizons, 2021, 8, 1795-1804.	12.2	176
66	A single-site iron catalyst with preoccupied active centers that achieves selective ammonia electrosynthesis from nitrate. Energy and Environmental Science, 2021, 14, 3522-3531.	30.8	243
67	Polymeric materials for solar water purification. Journal of Polymer Science, 2021, 59, 3084-3099.	3.8	21
68	Transport In and Optimization of Aligned-Channel Li-Ion Electrode Architectures. Journal of the Electrochemical Society, 2021, 168, 100536.	2.9	4
69	Ammonia electrosynthesis on single-atom catalysts: Mechanistic understanding and recent progress. Chemical Physics Reviews, 2021, 2, .	5.7	17
70	Building Efficient Ion Pathway in Highly Densified Thick Electrodes with High Gravimetric and Volumetric Energy Densities. Nano Letters, 2021, 21, 9339-9346.	9.1	31
71	Revealing the Critical Factor in Metal Sulfide Anode Performance in Sodium-Ion Batteries: An Investigation of Polysulfide Shuttling Issues. Small Methods, 2020, 4, 1900673.	8.6	47
72	Hierarchical nanoarchitected hybrid electrodes based on ultrathin MoSe ₂ nanosheets on 3D ordered macroporous carbon frameworks for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 2843-2850.	10.3	69

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73	High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , 2020, 13, 562-570.	30.8	163
74	Enhanced Surface Interactions Enable Fast Li ⁺ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie</i> , 2020, 132, 4160-4166.	2.0	27
75	Flexible sodium-ion based energy storage devices: Recent progress and challenges. <i>Energy Storage Materials</i> , 2020, 26, 83-104.	18.0	100
76	Enhanced Surface Interactions Enable Fast Li ⁺ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4131-4137.	13.8	242
77	Supramolecular confinement of single Cu atoms in hydrogel frameworks for oxygen reduction electrocatalysis with high atom utilization. <i>Materials Today</i> , 2020, 35, 78-86.	14.2	88
78	A mini review on two-dimensional nanomaterial assembly. <i>Nano Research</i> , 2020, 13, 1179-1190.	10.4	36
79	Hierarchically Porous C/Fe ₃ C Membranes with Fast Ion-Transporting Channels and Polysulfide-Trapping Networks for High-Areal-Capacity Li-S Batteries. <i>Nano Letters</i> , 2020, 20, 701-708.	9.1	72
80	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie</i> , 2020, 132, 22799-22805.	2.0	23
81	Low-Temperature Multielement Fusible Alloy-Based Molten Sodium Batteries for Grid-Scale Energy Storage. <i>ACS Central Science</i> , 2020, 6, 2287-2293.	11.3	21
82	Preface: Special topic on electrocatalysis & energy science. <i>Science China Chemistry</i> , 2020, 63, 1515-1516.	8.2	0
83	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation. , 2020, 2, 1419-1422.		82
84	Eutectic Electrolytes as a Promising Platform for Next-Generation Electrochemical Energy Storage. <i>Accounts of Chemical Research</i> , 2020, 53, 1648-1659.	15.6	143
85	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis (<i>Angew. Chem.</i> 50/2020). <i>Angewandte Chemie</i> , 2020, 132, 22992-22992.	2.0	0
86	Topology-Controlled Hydration of Polymer Network in Hydrogels for Solar-Driven Wastewater Treatment. <i>Advanced Materials</i> , 2020, 32, e2007012.	21.0	225
87	Unveiling the dimensionality effect of conductive fillers in thick battery electrodes for high-energy storage systems. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	43
88	Hierarchical Metal-Organic Framework Films with Controllable Meso/Macroporosity. <i>Advanced Science</i> , 2020, 7, 2002368.	11.2	32
89	Architecting a Stable High-Energy Aqueous Al-Ion Battery. <i>Journal of the American Chemical Society</i> , 2020, 142, 15295-15304.	13.7	188
90	Boosting Electrocatalytic Ammonia Production through Mimicking "Back-Donation". <i>Chem</i> , 2020, 6, 2690-2702.	11.7	88

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91	Reversible redox chemistry in azobenzene-based organic molecules for high-capacity and long-life nonaqueous redox flow batteries. <i>Nature Communications</i> , 2020, 11, 3843.	12.8	76
92	Redistributing Li ⁺ Ion Flux by Parallely Aligned Holey Nanosheets for Dendrite-Free Li Metal Anodes. <i>Advanced Materials</i> , 2020, 32, e2003920.	21.0	81
93	Reversible Deposition of Lithium Particles Enabled by Ultraconformal and Stretchable Graphene Film for Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2005763.	21.0	64
94	Janus Conductive/Insulating Microporous Ion-Sieving Membranes for Stable Li ⁺ S Batteries. <i>ACS Nano</i> , 2020, 14, 13852-13864.	14.6	74
95	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22610-22616.	13.8	100
96	Molecular Engineering of Azobenzene-Based Anolytes Towards High-Capacity Aqueous Redox Flow Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22163-22170.	13.8	65
97	Molecular Engineering of Azobenzene-Based Anolytes Towards High-Capacity Aqueous Redox Flow Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22347-22354.	2.0	19
98	Scalable High-Areal-Capacity Li ⁺ S Batteries Enabled by Sandwich-Structured Hierarchically Porous Membranes with Intrinsic Polysulfide Adsorption. <i>Nano Letters</i> , 2020, 20, 6922-6929.	9.1	47
99	Understanding Charge Storage in Hydrated Layered Solids MOPO ₄ (M = V, Nb) with Tunable Interlayer Chemistry. <i>ACS Nano</i> , 2020, 14, 13824-13833.	14.6	6
100	Gel Electrocatalysts: An Emerging Material Platform for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2020, 32, e2003191.	21.0	78
101	Atmospheric Water Harvesting: A Review of Material and Structural Designs. , 2020, 2, 671-684.		274
102	Designing two-dimensional WS ₂ layered cathode for high-performance aluminum-ion batteries: From micro-assemblies to insertion mechanism. <i>Nano Today</i> , 2020, 32, 100870.	11.9	83
103	Room-Temperature All-Liquid-Metal Batteries Based on Fusible Alloys with Regulated Interfacial Chemistry and Wetting. <i>Advanced Materials</i> , 2020, 32, e2002577.	21.0	102
104	O-coordinated W-Mo dual-atom catalyst for pH-universal electrocatalytic hydrogen evolution. <i>Science Advances</i> , 2020, 6, eaba6586.	10.3	263
105	When graphite meets Li metal. <i>National Science Review</i> , 2020, 7, 1521-1522.	9.5	3
106	Tailoring surface wetting states for ultrafast solar-driven water evaporation. <i>Energy and Environmental Science</i> , 2020, 13, 2087-2095.	30.8	236
107	Materials for solar-powered water evaporation. <i>Nature Reviews Materials</i> , 2020, 5, 388-401.	48.7	784
108	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020, 120, 7642-7707.	47.7	646

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109	Next-Generation Liquid Metal Batteries Based on the Chemistry of Fusible Alloys. ACS Central Science, 2020, 6, 1355-1366.	11.3	67
110	Evaporation-Induced Vertical Alignment Enabling Directional Ion Transport in a 2D Nanosheet-Based Battery Electrode. Advanced Materials, 2020, 32, e1907941.	21.0	66
111	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. Chemistry of Materials, 2020, 32, 1684-1692.	6.7	68
112	Single vs double atom catalyst for N ₂ activation in nitrogen reduction reaction: A DFT perspective. EcoMat, 2020, 2, e12014.	11.9	75
113	Mo ₂ C@3D ultrathin macroporous carbon realizing efficient and stable nitrogen fixation. Science China Chemistry, 2020, 63, 1570-1577.	8.2	27
114	A Ternary Hybrid Cation Room-Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. Advanced Materials, 2020, 32, e2000316.	21.0	40
115	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. Angewandte Chemie, 2020, 132, 12268-12275.	2.0	9
116	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12170-12177.	13.8	41
117	Biomass-Derived Hybrid Hydrogel Evaporators for Cost-Effective Solar Water Purification. Advanced Materials, 2020, 32, e1907061.	21.0	436
118	Inorganic Gel-Derived Metallic Frameworks Enabling High-Performance Silicon Anodes. Nano Letters, 2019, 19, 6292-6298.	9.1	63
119	“Fishnet-like” ion-selective nanochannels in advanced membranes for flow batteries. Journal of Materials Chemistry A, 2019, 7, 21112-21119.	10.3	50
120	General Synthetic Strategy for Pomegranate-like Transition-Metal Phosphides@N-Doped Carbon Nanostructures with High Lithium Storage Capacity. , 2019, 1, 265-271.		35
121	Pathways to Widespread Applications: Development of Redox Flow Batteries Based on New Chemistries. Chem, 2019, 5, 1964-1987.	11.7	105
122	Conductive MXene Nanocomposite Organohydrogel for Flexible, Healable, Low-Temperature Tolerant Strain Sensors. Advanced Functional Materials, 2019, 29, 1904507.	14.9	560
123	Room-temperature liquid metal and alloy systems for energy storage applications. Energy and Environmental Science, 2019, 12, 2605-2619.	30.8	122
124	Architecting highly hydratable polymer networks to tune the water state for solar water purification. Science Advances, 2019, 5, eaaw5484.	10.3	600
125	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. ACS Nano, 2019, 13, 7913-7919.	14.6	354
126	Probing Enhanced Site Activity of Co-Fe Bimetallic Subnanoclusters Derived from Dual Cross-Linked Hydrogels for Oxygen Electrocatalysis. ACS Energy Letters, 2019, 4, 1793-1802.	17.4	99

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127	Ultrafast Intercalation Enabled by Strong Solvent-Host Interactions: Understanding Solvent Effect at the Atomic Level. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17205-17209.	13.8	19
128	Hydrogels as an Emerging Material Platform for Solar Water Purification. <i>Accounts of Chemical Research</i> , 2019, 52, 3244-3253.	15.6	392
129	Rational Design of Rhodium-Iridium Alloy Nanoparticles as Highly Active Catalysts for Acidic Oxygen Evolution. <i>ACS Nano</i> , 2019, 13, 13225-13234.	14.6	151
130	Ultrafast Intercalation Enabled by Strong Solvent-Host Interactions: Understanding Solvent Effect at the Atomic Level. <i>Angewandte Chemie</i> , 2019, 131, 17365-17369.	2.0	3
131	Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. <i>Nano Letters</i> , 2019, 19, 8255-8261.	9.1	104
132	High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. <i>ACS Nano</i> , 2019, 13, 10612-10621.	14.6	214
133	A Liquid-Metal-Enabled Versatile Organic Alkali-Ion Battery. <i>Advanced Materials</i> , 2019, 31, e1806956.	21.0	99
134	Conductive polymers for stretchable supercapacitors. <i>Nano Research</i> , 2019, 12, 1978-1987.	10.4	217
135	A Wearable Transient Pressure Sensor Made with MXene Nanosheets for Sensitive Broad-Range Human-Machine Interfacing. <i>Nano Letters</i> , 2019, 19, 1143-1150.	9.1	538
136	Nitrogen Reduction Reaction. <i>Small Methods</i> , 2019, 3, 1900070.	8.6	48
137	Metal-Organic Frameworks/Conducting Polymer Hydrogel Integrated Three-Dimensional Free-Standing Monoliths as Ultrahigh Loading Li-S Battery Electrodes. <i>Nano Letters</i> , 2019, 19, 4391-4399.	9.1	115
138	Redox Flow Batteries: Phenothiazine-Based Organic Catholyte for High-Capacity and Long-Life Aqueous Redox Flow Batteries (<i>Adv. Mater.</i> 24/2019). <i>Advanced Materials</i> , 2019, 31, 1970175.	21.0	3
139	Inorganic Cyanogels and Their Derivatives for Electrochemical Energy Storage and Conversion. , 2019, 1, 158-170.		57
140	Doping engineering of conductive polymer hydrogels and their application in advanced sensor technologies. <i>Chemical Science</i> , 2019, 10, 6232-6244.	7.4	139
141	Defect engineering of metal-oxide interface for proximity of photooxidation and photoreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10232-10237.	7.1	63
142	Phenothiazine-Based Organic Catholyte for High-Capacity and Long-Life Aqueous Redox Flow Batteries. <i>Advanced Materials</i> , 2019, 31, e1901052.	21.0	138
143	Triple-Layered Carbon-SiO ₂ Composite Membrane for High Energy Density and Long Cycling Li-S Batteries. <i>ACS Nano</i> , 2019, 13, 5900-5909.	14.6	93
144	A graphite intercalation compound associated with liquid Na-K towards ultra-stable and high-capacity alkali metal anodes. <i>Energy and Environmental Science</i> , 2019, 12, 1989-1998.	30.8	90

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145	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. <i>Energy Storage Materials</i> , 2019, 19, 439-445.	18.0	32
146	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2019, 19, 2530-2536.	9.1	251
147	Biredox Eutectic Electrolytes Derived from Organic Redox-Active Molecules: High-Energy Storage Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7045-7050.	13.8	82
148	Biredox Eutectic Electrolytes Derived from Organic Redox-Active Molecules: High-Energy Storage Systems. <i>Angewandte Chemie</i> , 2019, 131, 7119-7124.	2.0	19
149	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <i>Trends in Chemistry</i> , 2019, 1, 335-348.	8.5	158
150	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 1998-2004.	9.1	142
151	Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. <i>Energy and Environmental Science</i> , 2019, 12, 3370-3379.	30.8	55
152	Polar polymer-solvent interaction derived favorable interphase for stable lithium metal batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3319-3327.	30.8	122
153	Hybrid Organic-Inorganic Gel Electrocatalyst for Stable Acidic Water Oxidation. <i>ACS Nano</i> , 2019, 13, 14368-14376.	14.6	34
154	Conjugated polymers: From synthesis, transport properties, to device applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1557-1558.	2.1	14
155	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , 2019, 10, 93.	12.8	39
156	Super Moisture-Absorbent Gels for All-Weather Atmospheric Water Harvesting. <i>Advanced Materials</i> , 2019, 31, e1806446.	21.0	281
157	Chemically Binding Scaffolded Anodes with 3D Graphene Architectures Realizing Fast and Stable Lithium Storage. <i>Research</i> , 2019, 2019, 8393085.	5.7	26
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