

Da-wei Wang

List of Publications by Year in descending order

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226
papers

30,889
citations

9444

71
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3751

173
g-index

243
all docs

243
docs citations

243
times ranked

26610
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Wrapped Fe ₃ O ₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. Chemistry of Materials, 2010, 22, 5306-5313.	7.0	1,784
2	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2008, 47, 373-376.	14.7	1,764
3	More Reliable Lithium-Sulfur Batteries: Status, Solutions and Prospects. Advanced Materials, 2017, 29, 1606823.	24.1	1,481
4	Fabrication of Graphene/Polyaniline Composite Paper <i>via</i> <i>In Situ</i> Anodic Electropolymerization for High-Performance Flexible Electrode. ACS Nano, 2009, 3, 1745-1752.	15.2	1,472
5	High-Energy MnO ₂ Nanowire/Graphene and Graphene Asymmetric Electrochemical Capacitors. ACS Nano, 2010, 4, 5835-5842.	15.2	1,464
6	Anchoring Hydrous RuO ₂ on Graphene Sheets for High-Performance Electrochemical Capacitors. Advanced Functional Materials, 2010, 20, 3595-3602.	16.4	1,135
7	Oxygen Bridges between NiO Nanosheets and Graphene for Improvement of Lithium Storage. ACS Nano, 2012, 6, 3214-3223.	15.2	998
8	Heterogeneous nanocarbon materials for oxygen reduction reaction. Energy and Environmental Science, 2014, 7, 576.	32.2	937
9	A Graphene-Pure Sulfur Sandwich Structure for Ultrafast, Long-Life Lithium-Sulfur Batteries. Advanced Materials, 2014, 26, 625-631.	24.1	917
10	Graphene-Cellulose Paper Flexible Supercapacitors. Advanced Energy Materials, 2011, 1, 917-922.	22.1	845
11	Carbon-sulfur composites for Li-S batteries: status and prospects. Journal of Materials Chemistry A, 2013, 1, 9382.	10.5	772
12	Fibrous Hybrid of Graphene and Sulfur Nanocrystals for High-Performance Lithium-Sulfur Batteries. ACS Nano, 2013, 7, 5367-5375.	15.2	730
13	A facile soft-template synthesis of mesoporous polymeric and carbonaceous nanospheres. Nature Communications, 2013, 4, .	13.2	581
14	Hybrid Graphene and Graphitic Carbon Nitride Nanocomposite: Gap Opening, Electron-Hole Puddle, Interfacial Charge Transfer, and Enhanced Visible Light Response. Journal of the American Chemical Society, 2012, 134, 4393-4397.	14.6	574
15	A Flexible Sulfur-Graphene-Polypropylene Separator Integrated Electrode for Advanced Li-S Batteries. Advanced Materials, 2015, 27, 641-647.	24.1	553
16	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. Chemistry of Materials, 2008, 20, 7195-7200.	7.0	517
17	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. Angewandte Chemie, 2008, 120, 379-382.	2.1	484
18	A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. Energy and Environmental Science, 2012, 5, 8901.	32.2	481

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19	Hierarchical porous nickel oxide and carbon as electrode materials for asymmetric supercapacitor. <i>Journal of Power Sources</i> , 2008, 185, 1563-1568.	8.0	447
20	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2017, 10, 370-376.	32.2	411
21	Nitrogen-Doped Carbon Monolith for Alkaline Supercapacitors and Understanding Nitrogen-Induced Redox Transitions. <i>Chemistry - A European Journal</i> , 2012, 18, 5345-5351.	3.9	364
22	Two-Dimensional Porous Carbon: Synthesis and Ion Transport Properties. <i>Advanced Materials</i> , 2015, 27, 5388-5395.	24.1	326
23	Selective Synthesis of Single-Crystalline Rhombic Dodecahedral, Octahedral, and Cubic Gold Nanocrystals. <i>Journal of the American Chemical Society</i> , 2009, 131, 697-703.	14.6	324
24	Safe and high-rate supercapacitors based on an acetonitrile/water in salt-hybrid electrolyte. <i>Energy and Environmental Science</i> , 2018, 11, 3212-3219.	32.2	324
25	Tailoring magnesium based materials for hydrogen storage through synthesis: Current state of the art. <i>Energy Storage Materials</i> , 2018, 10, 168-198.	18.4	323
26	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. <i>Nature Communications</i> , 2019, 10, 725.	13.2	317
27	Unravelling the Structure of Electrocatalytically Active Fe-N Complexes in Carbon for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10673-10677.	14.7	313
28	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , 2019, 31, e1801526.	24.1	289
29	Electrospun Palladium Nanoparticle-Loaded Carbon Nanofibers and Their Electrocatalytic Activities towards Hydrogen Peroxide and NADH. <i>Advanced Functional Materials</i> , 2008, 18, 441-448.	16.4	287
30	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8703.	2.9	278
31	Carbon for the oxygen reduction reaction: a defect mechanism. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11736-11739.	10.5	267
32	Epitaxial Growth of Au-Pt-Ni Nanorods for Direct High Selectivity H_2O_2 Production. <i>Advanced Materials</i> , 2016, 28, 9949-9955.	24.1	216
33	Conceptual and empirical advances in analysing policy mixes for energy transitions. <i>Energy Research and Social Science</i> , 2017, 33, 1-10.	6.6	208
34	Comparison of the rate capability of nanostructured amorphous and anatase TiO_2 for lithium insertion using anodic TiO_2 nanotube arrays. <i>Nanotechnology</i> , 2009, 20, 225701.	2.7	197
35	Oriented and Interlinked Porous Carbon Nanosheets with an Extraordinary Capacitive Performance. <i>Chemistry of Materials</i> , 2014, 26, 6896-6903.	7.0	183
36	Amorphous TiO_2 nanotube arrays for low-temperature oxygen sensors. <i>Nanotechnology</i> , 2008, 19, 405504.	2.7	181

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37	Functional Carbons Remedy the Shuttling of Polysulfides in Lithium-Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. <i>Advanced Functional Materials</i> , 2018, 28, 1800508.	16.4	168
38	Ethers Illuminate Sodium-Based Battery Chemistry: Uniqueness, Surprise, and Challenges. <i>Advanced Energy Materials</i> , 2018, 8, 1801361.	22.1	164
39	Controlled Electrochemical Charge Injection to Maximize the Energy Density of Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3722-3725.	14.7	163
40	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. <i>Electrochemistry Communications</i> , 2009, 11, 1729-1732.	4.8	161
41	Graphene oxide: An emerging electromaterial for energy storage and conversion. <i>Journal of Energy Chemistry</i> , 2021, 55, 323-344.	13.4	161
42	Polysulfide immobilization and conversion on a conductive polar MoC@MoO _x material for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 10, 56-61.	18.4	160
43	A nanosized Fe ₂ O ₃ decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 17942.	6.7	155
44	Hierarchical mesoporous yolk-shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. <i>Chemical Communications</i> , 2015, 51, 2518-2521.	4.2	153
45	Effect of Pore Packing Defects in 2-D Ordered Mesoporous Carbons on Ionic Transport. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8570-8575.	2.7	145
46	Covalent fixing of sulfur in metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2020, 13, 432-471.	32.2	137
47	Electron field emission of a nitrogen-doped TiO ₂ nanotube array. <i>Nanotechnology</i> , 2008, 19, 025606.	2.7	130
48	A Discussion on the Activity Origin in Metal-Free Nitrogen-Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. <i>ChemSusChem</i> , 2015, 8, 2772-2788.	7.4	114
49	Integrating SEI into Layered Conductive Polymer Coatings for Ultrastable Silicon Anodes. <i>Advanced Materials</i> , 2022, 34, .	24.1	110
50	Reliable liquid electrolytes for lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 30, 113-129.	18.4	104
51	Mesopore-Aspect-Ratio Dependence of Ion Transport in Rod-type Ordered Mesoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9950-9955.	3.3	100
52	Dense Graphene Monolith for High Volumetric Energy Density Li-S Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703438.	22.1	99
53	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2008, 18, 3787-3793.	16.4	97
54	Improved capacitance of SBA-15 templated mesoporous carbons after modification with nitric acid oxidation. <i>New Carbon Materials</i> , 2007, 22, 307-314.	6.3	95

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55	Quantifying the Volumetric Performance Metrics of Supercapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900079.	22.1	95
56	A gradient bi-functional graphene-based modified electrode for vanadium redox flow batteries. <i>Energy Storage Materials</i> , 2018, 13, 66-71.	18.4	93
57	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. <i>Nanoscale</i> , 2015, 7, 5592-5597.	5.8	92
58	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15487-15491.	14.7	92
59	Enhanced electrochemical sensitivity of PtRh electrodes coated with nitrogen-doped graphene. <i>Electrochemistry Communications</i> , 2010, 12, 1423-1427.	4.8	91
60	Diameter-Selective Growth of Single-Walled Carbon Nanotubes with High Quality by Floating Catalyst Method. <i>ACS Nano</i> , 2008, 2, 1722-1728.	15.2	89
61	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. <i>Energy Storage Materials</i> , 2015, 1, 112-118.	18.4	87
62	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14732-14742.	10.5	86
63	Armoring Graphene Cathodes for High-Rate and Long-Life Lithium Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1502064.	22.1	84
64	An Aqueous Metal-Ion Capacitor with Oxidized Carbon Nanotubes and Metallic Zinc Electrodes. <i>Frontiers in Energy Research</i> , 2016, 4, .	2.4	83
65	Recent advancements in g-C ₃ N ₄ -based photocatalysts for photocatalytic CO ₂ reduction: a mini review. <i>RSC Advances</i> , 2020, 10, 29408-29418.	3.7	83
66	Synthesis and dye separation performance of ferromagnetic hierarchical porous carbon. <i>Carbon</i> , 2008, 46, 1593-1599.	10.7	81
67	The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1702395.	22.1	80
68	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020, 5, 3560-3568.	18.3	79
69	Bimetal-organic frameworks for functionality optimization: MnFe-MOF-74 as a stable and efficient catalyst for the epoxidation of alkenes with H ₂ O ₂ . <i>Nanoscale</i> , 2018, 10, 1591-1597.	5.8	75
70	Demystifying the catalysis in lithium-sulfur batteries: Characterization methods and techniques. <i>SusMat</i> , 2021, 1, 51-65.	16.1	75
71	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3607.	10.5	73
72	Electroactive cellulose-supported graphene oxide interlayers for Li-S batteries. <i>Carbon</i> , 2015, 93, 611-619.	10.7	72

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73	Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pH-Dependent Regulation at Ultralow Physiological H ₂ O ₂ Concentration. <i>Advanced Functional Materials</i> , 2019, 29, 1808900.	16.4	72
74	Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 11252.	6.7	71
75	Nanosize SnO ₂ confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. <i>Nanoscale</i> , 2013, 5, 1576.	5.8	71
76	Evolution of the effect of sulfur confinement in graphene-based porous carbons for use in Li-S batteries. <i>Nanoscale</i> , 2016, 8, 4447-4451.	5.8	71
77	A water-dielectric capacitor using hydrated graphene oxide film. <i>Journal of Materials Chemistry</i> , 2012, 22, 21085.	6.7	69
78	Unusual High Oxygen Reduction Performance in All-Carbon Electrocatalysts. <i>Scientific Reports</i> , 2014, 4, 6289.	3.5	68
79	Revisiting oxygen reduction reaction on oxidized and unzipped carbon nanotubes. <i>Carbon</i> , 2015, 81, 295-304.	10.7	68
80	Precise Regulation of Ga-Based Liquid Metal Oxidation. <i>Accounts of Materials Research</i> , 2021, 2, 1093-1103.	13.2	68
81	Research and prospect on extraction of vanadium from vanadium slag by liquid oxidation technologies. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1273-1288.	4.3	65
82	Ultrahigh rate sodium ion storage with nitrogen-doped expanded graphite oxide in ether-based electrolyte. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1582-1589.	10.5	65
83	Carboxymethyl cellulose binders enable high-rate capability of sulfurized polyacrylonitrile cathodes for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5460-5465.	10.5	64
84	High-performance hierarchical MnO ₂ /CNT electrode for multifunctional supercapacitors. <i>Carbon</i> , 2021, 184, 504-513.	10.7	64
85	Electrochemical determination of oxalic acid using palladium nanoparticle-loaded carbon nanofiber modified electrode. <i>Analytical Methods</i> , 2010, 2, 855.	2.7	63
86	An in-situ solidification strategy to block polysulfides in Lithium-Sulfur batteries. <i>Energy Storage Materials</i> , 2021, 37, 224-232.	18.4	63
87	Facile Synthesis of Dendritic Gold Nanostructures with Hyperbranched Architectures and Their Electrocatalytic Activity toward Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9148-9154.	8.3	60
88	Graphene-Based Planar Microsupercapacitors: Recent Advances and Future Challenges. <i>Advanced Materials Technologies</i> , 2019, 4, 1800200.	6.2	60
89	Liquid Metal Hybrid Platform-Mediated Ice-Free Dual Noninvasive Conformable Melanoma Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27984-27993.	8.3	58
90	Structural Origin of the Activity in Mn ₃ O ₄ -Graphene Oxide Hybrid Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015, 8, 3331-3339.	7.4	57

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91	Unravelling the Structure of Electrocatalytically Active Fe-N Complexes in Carbon for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2014, 126, 10849-10853.	2.1	53
92	Superior removal of Hg (II) ions from wastewater using hierarchically porous, functionalized carbon. <i>Journal of Hazardous Materials</i> , 2019, 371, 33-41.	12.6	52
93	A vertical graphene enhanced Zn-MnO ₂ flexible battery towards wearable electronic devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 575-584.	10.5	52
94	Refilling Nitrogen to Oxygen Vacancies in Ultrafine Tungsten Oxide Clusters for Superior Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1902148.	22.1	51
95	Synthesis and electrocatalytic activity of Au/Pt bimetallic nanodendrites for ethanol oxidation in alkaline medium. <i>Journal of Colloid and Interface Science</i> , 2012, 367, 342-347.	9.7	50
96	In situ synthesis of Pt/carbon nanofiber nanocomposites with enhanced electrocatalytic activity toward methanol oxidation. <i>Journal of Colloid and Interface Science</i> , 2012, 367, 199-203.	9.7	50
97	Membrane Permeability Rates of Vanadium Ions and Their Effects on Temperature Variation in Vanadium Redox Batteries. <i>Energies</i> , 2016, 9, 1058.	3.2	50
98	Spherical Murray-Type Assembly of Co-N-C Nanoparticles as a High-Performance Trifunctional Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9925-9933.	8.3	50
99	Design Rationale and Device Configuration of Lithium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2022, 12, .	22.1	49
100	A Li-ion sulfur full cell with ambient resistant Al-Li alloy anode. <i>Energy Storage Materials</i> , 2018, 15, 209-217.	18.4	48
101	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 9554-9558.	5.8	47
102	Dependence of LiNO ₃ decomposition on cathode binders in Li-S batteries. <i>Journal of Power Sources</i> , 2015, 288, 13-19.	8.0	47
103	Magnetic liquid metal loaded nano-in-micro spheres as fully flexible theranostic agents for SMART embolization. <i>Nanoscale</i> , 2021, 13, 8817-8836.	5.8	47
104	Synthesis of Tin (II or IV) Oxide Coated Multiwall Carbon Nanotubes with Controlled Morphology. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5790-5794.	3.3	46
105	Hybrid Solid Polymer Electrolytes with Two-Dimensional Inorganic Nanofillers. <i>Chemistry - A European Journal</i> , 2018, 24, 18180-18203.	3.9	46
106	Anodic chlorine/nitrogen co-doping of reduced graphene oxide films at room temperature. <i>Carbon</i> , 2012, 50, 3333-3341.	10.7	45
107	Platinum electrocatalysts with plasmonic nano-cores for photo-enhanced oxygen-reduction. <i>Nano Energy</i> , 2017, 41, 233-242.	16.5	44
108	Digital to analog resistive switching transition induced by graphene buffer layer in strontium titanate based devices. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 767-774.	9.7	44

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109	Ultrafast growth of dendritic gold nanostructures and their applications in methanol electro-oxidation and surface-enhanced Raman scattering. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 577-584.	9.7	43
110	Fabrication and supercapacitive properties of a thick electrode of carbon nanotube@RuO ₂ core-shell hybrid material with a high RuO ₂ loading. <i>Nano Energy</i> , 2013, 2, 1232-1241.	16.5	42
111	Reduction-induced surface amorphization enhances the oxygen evolution activity in Co ₃ O ₄ . <i>RSC Advances</i> , 2015, 5, 27823-27828.	3.7	41
112	Effects of Surface Pretreatment of Glassy Carbon on the Electrochemical Behavior of V(IV)/V(V) Redox Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1164-A1174.	2.9	41
113	The smart era of electrochemical energy storage devices. <i>Energy Storage Materials</i> , 2016, 3, 66-68.	18.4	41
114	Functional Electrocatalysts Derived from Prussian Blue and its Analogues for Metal-Air Batteries: Progress and Prospects. <i>Batteries and Supercaps</i> , 2019, 2, 290-310.	5.0	41
115	Confined SnO ₂ quantum-dot clusters in graphene sheets as high-performance anodes for lithium-ion batteries. <i>Scientific Reports</i> , 2016, 6, 25829.	3.5	40
116	<i>In Situ</i> Assembly of Multi-Sheeted Buckybooks from Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 707-713.	15.2	39
117	An Operando Mechanistic Evaluation of a Solar-Rechargeable Sodium-Ion Intercalation Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1700545.	22.1	38
118	A 2D Conductive Organic-Inorganic Hybrid with Extraordinary Volumetric Capacitance at Minimal Swelling. <i>Advanced Materials</i> , 2018, 30, e1800400.	24.1	38
119	Synergy of nanoconfinement and surface oxygen in recrystallization of sulfur melt in carbon nanocapsules and the related Li-S cathode properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6439.	10.5	37
120	Functions in cooperation for enhanced oxygen reduction reaction: the independent roles of oxygen and nitrogen sites in metal-free nanocarbon and their functional synergy. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3239-3248.	10.5	37
121	High-Performance Microsupercapacitors Based on Bioinspired Graphene Microfibers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10157-10164.	8.3	37
122	Versatile electrocatalytic processes realized by Ni, Co and Fe alloyed core coordinated carbon shells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12154-12165.	10.5	37
123	Modification Based on MoO ₃ as Electrocatalysts for High Power Density Vanadium Redox Flow Batteries. <i>ChemElectroChem</i> , 2017, 4, 1836-1839.	3.5	36
124	A Rechargeable Quasi-symmetrical MoS ₂ Battery. <i>Joule</i> , 2018, 2, 1278-1286.	24.7	36
125	Large-Scale and Template-Free Growth of Free-Standing Single-Crystalline Dendritic Ag/Pd Alloy Nanostructure Arrays. <i>Crystal Growth and Design</i> , 2009, 9, 4351-4355.	3.2	35
126	The effect of carbon particle morphology on the electrochemical properties of nanocarbon/polyaniline composites in supercapacitors. <i>New Carbon Materials</i> , 2011, 26, 180-186.	6.3	35

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127	Ternary MnO/CoMn alloy@N-doped graphitic composites derived from a bi-metallic pigment as bi-functional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20649-20657.	10.5	35
128	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. <i>Atmospheric Environment</i> , 2019, 204, 1-11.	4.2	32
129	Mitigating self-discharge of carbon-based electrochemical capacitors by modifying their electric-double layer to maximize energy efficiency. <i>Journal of Energy Chemistry</i> , 2019, 38, 214-218.	13.4	32
130	Long-chain solid organic polysulfide cathode for high-capacity secondary lithium batteries. <i>Energy Storage Materials</i> , 2018, 12, 30-36.	18.4	31
131	Solar Redox Flow Batteries: Mechanism, Design, and Measurement. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800031.	5.6	31
132	Evidence for Fast Lithium-Ion Diffusion and Charge-Transfer Reactions in Amorphous TiO ₂ Nanotubes: Insights for High-Rate Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42513-42523.	8.3	30
133	Introducing Stacking Faults into Three-Dimensional Branched Nickel Nanoparticles for Improved Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2022, 144, 11094-11098.	14.6	30
134	A smart self-regenerative lithium ion supercapacitor with a real-time safety monitor. <i>Energy Storage Materials</i> , 2015, 1, 146-151.	18.4	29
135	Wurtzite P-Doped GaN Triangular Microtubes as Field Emitters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9627-9633.	3.3	28
136	Core/Shell NiFe Nanoalloy with a Discrete N-doped Graphitic Carbon Cover for Enhanced Water Oxidation. <i>ChemElectroChem</i> , 2018, 5, 732-736.	3.5	28
137	Simulation on different response characteristics of aerosol particle number concentration and mass concentration to emission changes over mainland China. <i>Science of the Total Environment</i> , 2018, 643, 692-703.	8.2	28
138	Order of Activity of Nitrogen, Iron Oxide, and FeN _x Complexes towards Oxygen Reduction in Alkaline Medium. <i>ChemSusChem</i> , 2015, 8, 4016-4021.	7.4	27
139	In Situ Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 2516-2525.	5.3	27
140	Enhanced visible/near-infrared light harvesting and superior charge separation via OD/2D all-carbon hybrid architecture for photocatalytic oxygen evolution. <i>Carbon</i> , 2020, 167, 724-735.	10.7	27
141	Solution phase synthesis of halogenated graphene and the electrocatalytic activity for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2014, 35, 884-890.	14.6	26
142	Suitability of representative electrochemical energy storage technologies for ramp-rate control of photovoltaic power. <i>Journal of Power Sources</i> , 2018, 384, 396-407.	8.0	25
143	High yield electrooxidation of 5-hydroxymethyl furfural catalysed by unsaturated metal sites in CoFe Prussian Blue Analogue films. <i>Green Chemistry</i> , 2021, 23, 4333-4337.	9.3	25
144	Controlled Electrochemical Charge Injection to Maximize the Energy Density of Supercapacitors. <i>Angewandte Chemie</i> , 2013, 125, 3810-3813.	2.1	24

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145	Layered conductive polymer-inorganic anion network for high-performance ultra-loading capacitive electrodes. <i>Energy Storage Materials</i> , 2018, 14, 90-99.	18.4	24
146	Towards a reliable Li-metal-free LiNO_3 -free Li-ion polysulphide full cell <i>via</i> parallel interface engineering. <i>Energy and Environmental Science</i> , 2018, 11, 2509-2520.	32.2	24
147	Rationalized design of hyperbranched trans-scale graphene arrays for enduring high-energy lithium metal batteries. <i>Science Advances</i> , 2022, 8, .	10.9	24
148	<i>In situ</i> modification of BiVO_4 nanosheets on graphene for boosting photocatalytic water oxidation. <i>Nanoscale</i> , 2020, 12, 14853-14862.	5.8	23
149	Electron-beam writing of deoxygenated micro-patterns on graphene oxide film. <i>Carbon</i> , 2015, 95, 738-745.	10.7	22
150	A Desolvated Solid-Solid Interface for a High-Capacitance Electric Double Layer. <i>Advanced Energy Materials</i> , 2019, 9, 1803715.	22.1	22
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