

Wenjie Mai

List of Publications by Year in descending order

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papers

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14644

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times ranked

19464
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#	ARTICLE	IF	CITATIONS
1	Low-Cost High-Performance Solid-State Asymmetric Supercapacitors Based on MnO ₂ Nanowires and Fe ₂ O ₃ Nanotubes. <i>Nano Letters</i> , 2014, 14, 731-736.	4.5	1,035
2	Conversion of Zinc Oxide Nanobelts into Superlattice-Structured Nanohelices. <i>Science</i> , 2005, 309, 1700-1704.	6.0	835
3	Hydrogenated ZnO Core-Shell Nanocables for Flexible Supercapacitors and Self-Powered Systems. <i>ACS Nano</i> , 2013, 7, 2617-2626.	7.3	781
4	Flexible Piezotronic Strain Sensor. <i>Nano Letters</i> , 2008, 8, 3035-3040.	4.5	742
5	Flexible solid-state electrochemical supercapacitors. <i>Nano Energy</i> , 2014, 8, 274-290.	8.2	734
6	Fiber-Based All-Solid-State Flexible Supercapacitors for Self-Powered Systems. <i>ACS Nano</i> , 2012, 6, 9200-9206.	7.3	596
7	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18247-18255.	7.2	529
8	Gigantic enhancement in response and reset time of ZnO UV nanosensor by utilizing Schottky contact and surface functionalization. <i>Applied Physics Letters</i> , 2009, 94, 191103.	1.5	515
9	Electrochromic energy storage devices. <i>Materials Today</i> , 2016, 19, 394-402.	8.3	415
10	Flexible electrochromic supercapacitor hybrid electrodes based on tungsten oxide films and silver nanowires. <i>Chemical Communications</i> , 2016, 52, 6296-6299.	2.2	383
11	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4566-4571.	11.1	371
12	Ultra-high-Performance Pseudocapacitor Electrodes Based on Transition Metal Phosphide Nanosheets Array via Phosphorization: A General and Effective Approach. <i>Advanced Functional Materials</i> , 2015, 25, 7530-7538.	7.8	359
13	Carbon quantum dots as a visible light sensitizer to significantly increase the solar water splitting performance of bismuth vanadate photoanodes. <i>Energy and Environmental Science</i> , 2017, 10, 772-779.	15.6	315
14	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. <i>Nature Communications</i> , 2019, 10, 3687.	5.8	300
15	Piezoelectric-Potential-Controlled Polarity-Reversible Schottky Diodes and Switches of ZnO Wires. <i>Nano Letters</i> , 2008, 8, 3973-3977.	4.5	279
16	Patterned Growth of Vertically Aligned ZnO Nanowire Arrays on Inorganic Substrates at Low Temperature without Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 14958-14959.	6.6	270
17	An ultra-high energy density flexible asymmetric supercapacitor based on hierarchical fabric decorated with 2D bimetallic oxide nanosheets and MOF-derived porous carbon polyhedra. <i>Journal of Materials Chemistry A</i> , 2019, 7, 946-957.	5.2	242
18	The use of polyethyleneimine-modified reduced graphene oxide as a substrate for silver nanoparticles to produce a material with lower cytotoxicity and long-term antibacterial activity. <i>Carbon</i> , 2012, 50, 3407-3415.	5.4	236

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19	Tailorable and Wearable Textile Devices for Solar Energy Harvesting and Simultaneous Storage. ACS Nano, 2016, 10, 9201-9207.	7.3	213
20	Large-scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. Angewandte Chemie - International Edition, 2014, 53, 11935-11939.	7.2	207
21	BiVO ₄ photoanodes with significantly improved solar water splitting capability: p-n junction to expand solar adsorption range and facilitate charge carrier dynamics. Nano Energy, 2015, 18, 222-231.	8.2	199
22	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. Nano Research, 2016, 9, 2823-2851.	5.8	198
23	Sulphur-doped reduced graphene oxide sponges as high-performance free-standing anodes for K-ion storage. Nano Energy, 2018, 53, 415-424.	8.2	194
24	NiFe nanoparticles embedded N-doped carbon nanotubes as high-efficient electrocatalysts for wearable solid-state Zn-air batteries. Nano Energy, 2020, 68, 104293.	8.2	193
25	Activating lattice oxygen in NiFe-based (oxy)hydroxide for water electrolysis. Nature Communications, 2022, 13, 2191.	5.8	179
26	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. Nano Energy, 2016, 26, 446-455.	8.2	167
27	Ultrafast Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	5.6	163
28	Design of pomegranate-like clusters with NiS ₂ nanoparticles anchored on nitrogen-doped porous carbon for improved sodium ion storage performance. Journal of Materials Chemistry A, 2018, 6, 6595-6605.	5.2	159
29	Rational design of MoS ₂ -reduced graphene oxide sponges as free-standing anodes for sodium-ion batteries. Chemical Engineering Journal, 2018, 332, 260-266.	6.6	159
30	WO ₃ nanoflowers with excellent pseudo-capacitive performance and the capacitance contribution analysis. Journal of Materials Chemistry A, 2016, 4, 7266-7273.	5.2	153
31	A Robust Solid Electrolyte Interphase Layer Augments the Ion Storage Capacity of Bimetallic Sulfide-Containing Potassium-Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 14740-14747.	7.2	153
32	Significantly enhanced robustness and electrochemical performance of flexible carbon nanotube-based supercapacitors by electrodepositing polypyrrole. Journal of Power Sources, 2015, 287, 68-74.	4.0	150
33	Synergistic Antibacterial Brilliant Blue/Reduced Graphene Oxide/Quaternary Phosphonium Salt Composite with Excellent Water Solubility and Specific Targeting Capability. Langmuir, 2011, 27, 7828-7835.	1.6	145
34	Rational design of metal organic framework-derived FeS ₂ hollow nanocages@reduced graphene oxide for K-ion storage. Nanoscale, 2018, 10, 17092-17098.	2.8	139
35	In-situ encapsulation of Ni ₃ S ₂ nanoparticles into N-doped interconnected carbon networks for efficient lithium storage. Chemical Engineering Journal, 2019, 378, 122108.	6.6	136
36	Novel 3D Nanoporous Zn-Cu Alloy as Long-Life Anode toward High-Voltage Double Electrolyte Aqueous Zinc-Ion Batteries. Small, 2020, 16, e2001323.	5.2	136

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37	Ceria and ceria-based nanostructured materials for photoenergy applications. <i>Nano Energy</i> , 2017, 34, 313-337.	8.2	134
38	Electrochromic Asymmetric Supercapacitor Windows Enable Direct Determination of Energy Status by the Naked Eye. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34085-34092.	4.0	134
39	Flexible supercapacitors based on carbon nanotube/MnO ₂ nanotube hybrid porous films for wearable electronic devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17561-17567.	5.2	132
40	Aspect Ratio Dependence of the Elastic Properties of ZnO Nanobelts. <i>Nano Letters</i> , 2007, 7, 1314-1317.	4.5	130
41	Superelasticity and Nanofracture Mechanics of ZnO Nanohelices. <i>Nano Letters</i> , 2006, 6, 2536-2543.	4.5	129
42	Significantly Enhanced Photocatalytic Activities and Charge Separation Mechanism of Pd-Decorated ZnO@Graphene Oxide Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3623-3629.	4.0	129
43	In situ plasmonic optical fiber detection of the state of charge of supercapacitors for renewable energy storage. <i>Light: Science and Applications</i> , 2018, 7, 34.	7.7	129
44	Worm-like amorphous MnO ₂ nanowires grown on textiles for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 595-599.	5.2	120
45	Elastic Properties and Buckling of Silicon Nanowires. <i>Advanced Materials</i> , 2008, 20, 3919-3923.	11.1	119
46	Nickel oxide nanoflake-based bifunctional glass electrodes with superior cyclic stability for energy storage and electrochromic applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20614-20618.	5.2	119
47	Achieving high-energy density and superior cyclic stability in flexible and lightweight pseudocapacitor through synergic effects of binder-free CoGa ₂ O ₄ 2D-hexagonal nanoplates. <i>Nano Energy</i> , 2020, 77, 105276.	8.2	118
48	K ⁺ Ion Storage Enhancement in Sb ₂ O ₃ /Reduced Graphene Oxide Using Ether-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 1903455.	10.2	113
49	Rational design of carbon shell endows TiN@C nanotube based fiber supercapacitors with significantly enhanced mechanical stability and electrochemical performance. <i>Nano Energy</i> , 2017, 31, 432-440.	8.2	112
50	Mesoporous manganese-selenide microflowers with enhanced electrochemical performance as a flexible symmetric 1.8 V supercapacitor. <i>Chemical Engineering Journal</i> , 2020, 382, 122814.	6.6	108
51	Freestanding CNT@WO ₃ hybrid electrodes for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12076-12080.	5.2	101
52	Atomic-Layer Deposition-Assisted Double-Side Interfacial Engineering for High-Performance Flexible and Stable CsPbBr ₃ Perovskite Photodetectors toward Visible Light Communication Applications. <i>Small</i> , 2019, 15, e1902135.	5.2	97
53	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie</i> , 2021, 133, 18395-18403.	1.6	97
54	Quantitative Analysis of Charge Storage Process of Tungsten Oxide that Combines Pseudocapacitive and Electrochromic Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16483-16489.	1.5	93

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55	A Flexible Microsupercapacitor with Integral Photocatalytic Fuel Cell for Self-Charging. ACS Nano, 2019, 13, 8246-8255.	7.3	86
56	A review of hard carbon anode: Rational design and advanced characterization in potassium ion batteries. Informa An^{A} -Materi A ily, 2022, 4, .	8.5	85
57	Strongly Coupled NiCo ₂ O ₄ Nanocrystal/MXene Hybrid through In Situ Ni/Co A F Bonds for Efficient Wearable Zn A Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 44639-44647.	4.0	82
58	Metal-coordination chemistry guiding preferred crystallographic orientation for reversible zinc anode. Energy Storage Materials, 2022, 49, 463-470.	9.5	81
59	Stretchable Ni@NiCoP textile for wearable energy storage clothes. Nano Energy, 2019, 55, 506-515.	8.2	79
60	Integration of Energy Harvesting and Electrochemical Storage Devices. Advanced Materials Technologies, 2017, 2, 1700182.	3.0	78
61	Construction of highly dispersed mesoporous bimetallic-sulfide nanoparticles locked in N-doped graphitic carbon nanosheets for high energy density hybrid flexible pseudocapacitors. Journal of Materials Chemistry A, 2019, 7, 17435-17445.	5.2	77
62	Atomic Layer Deposition of Amorphous TiO ₂ on Carbon Nanotube Networks and Their Superior Li and Na Ion Storage Properties. Advanced Materials Interfaces, 2016, 3, 1600375.	1.9	75
63	Interface Engineering To Boost Photoresponse Performance of Self-Powered, Broad-Bandwidth PEDOT:PSS/Si Heterojunction Photodetector. ACS Applied Materials & Interfaces, 2016, 8, 19158-19167.	4.0	72
64	Ultrahigh A Relative Energy Density A and Mass Loading of Carbon Cloth Anodes for K-Ion Batteries. CCS Chemistry, 2021, 3, 791-799.	4.6	71
65	Combining Bulk/Surface Engineering of Hematite To Synergistically Improve Its Photoelectrochemical Water Splitting Performance. ACS Applied Materials & Interfaces, 2016, 8, 16071-16077.	4.0	69
66	A novel CoOOH/(Ti, C)-Fe ₂ O ₃ nanorod photoanode for photoelectrochemical water splitting. Science China Materials, 2018, 61, 887-894.	3.5	69
67	Nitrogen doped amorphous carbon as metal free electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 876-885.	3.8	66
68	Achieving high rate and high energy density in an all-solid-state flexible asymmetric pseudocapacitor through the synergistic design of binder-free 3D ZnCo ₂ O ₄ nano polyhedra and 2D layered Ti ₃ C ₂ T _x -MXenes. Journal of Materials Chemistry A, 2019, 7, 24543-24556.	5.2	64
69	Visualized UV Photodetectors Based on Prussian Blue/TiO ₂ for Smart Irradiation Monitoring Application. Advanced Materials Technologies, 2018, 3, 1700288.	3.0	63
70	Self-Powered, High-Speed and Visible A Near Infrared Response of MoO ₃ A n-Si Heterojunction Photodetector with Enhanced Performance by Interfacial Engineering. ACS Applied Materials & Interfaces, 2015, 7, 25981-25990.	4.0	62
71	Quantifying the elastic deformation behavior of bridged nanobelts. Applied Physics Letters, 2006, 89, 073112.	1.5	60
72	Luminescent properties of orange-emitting long-lasting phosphorescence phosphor Ca ₂ SnO ₄ :Sm ³⁺ . Solid State Sciences, 2011, 13, 525-528.	1.5	60

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73	Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. <i>Nano Energy</i> , 2014, 10, 108-116.	8.2	60
74	Carboxymethyl Cellulose Binder Greatly Stabilizes Porous Hollow Carbon Submicrospheres in Capacitive K-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15581-15590.	4.0	58
75	Easy one-step hydrothermal synthesis of nitrogen-doped reduced graphene oxide/iron oxide hybrid as efficient supercapacitor material. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 135-144.	1.2	57
76	Sodium 1-naphthalenesulfonate-Functionalized Reduced Graphene Oxide Stabilizes Silver Nanoparticles with Lower Cytotoxicity and Long-Term Antibacterial Activity. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1664-1670.	1.7	56
77	Interface charges redistribution enhanced monolithic etched copper foam-based Cu ₂ O layer/TiO ₂ nanodots heterojunction with high hydrogen evolution electrocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 365-372.	10.8	56
78	Solar-powered overall water splitting system combining metal-organic frameworks derived bimetallic nanohybrids based electrocatalysts and one organic solar cell. <i>Nano Energy</i> , 2019, 56, 82-91.	8.2	55
79	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn ₂ O ₃ and MOF-derived porous carbon polyhedrons. <i>Electrochimica Acta</i> , 2018, 282, 1-9.	2.6	54
80	High-Performance Na-Ion Storage of S-Doped Porous Carbon Derived from Conjugated Microporous Polymers. <i>Nano-Micro Letters</i> , 2019, 11, 60.	14.4	54
81	Reducing current fluctuation of Cs ₃ Bi ₂ Br ₉ perovskite photodetectors for diffuse reflection imaging with wide dynamic range. <i>Science Bulletin</i> , 2020, 65, 1371-1379.	4.3	53
82	High-concentration ether-based electrolyte boosts the electrochemical performance of SnS ₂ -reduced graphene oxide for K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19332-19341.	5.2	51
83	Growth of nickel (111) plane: The key role in nickel for further improving the electrochemical property of hexagonal nickel hydroxide-nickel & reduced graphene oxide composite. <i>Journal of Power Sources</i> , 2014, 267, 356-365.	4.0	48
84	Strain-insensitive Self-Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene-Elastomer Composite. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	47
85	Theoretical calculation guided electrocatalysts design: Nitrogen saturated porous Mo ₂ C nanostructures for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117891.	10.8	46
86	Synthesis of mesoporous defective graphene-nanosheets in a space-confined self-assembled nanoreactor: Highly efficient capacitive energy storage. <i>Electrochimica Acta</i> , 2019, 305, 517-527.	2.6	45
87	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin Ni-Co-O nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020, 349, 136384.	2.6	45
88	Rational design of anatase TiO ₂ architecture with hierarchical nanotubes and hollow microspheres for high-performance dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 303, 57-64.	4.0	44
89	High-Performance Porous Molybdenum Oxynitride Based Fiber Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29699-29706.	4.0	44
90	Graphite Anode for Potassium Ion Batteries: Current Status and Perspective. <i>Energy and Environmental Materials</i> , 2022, 5, 458-469.	7.3	44

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91	Tunable electric and magnetic properties of Co _x Zn _{1-x} S nanowires. Applied Physics Letters, 2008, 93, .	1.5	43
92	Role of graphene in great enhancement of photocatalytic activity of ZnO nanoparticle-graphene hybrids. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 279-284.	1.3	43
93	Insight into the nitrogen-doped carbon as oxygen reduction reaction catalyst: The choice of carbon/nitrogen source and active sites. International Journal of Hydrogen Energy, 2016, 41, 8563-8575.	3.8	43
94	Nanowire as pico-gram balance at workplace atmosphere. Solid State Communications, 2006, 139, 222-226.	0.9	42
95	Novel blue-violet photoluminescence from sputtered ZnO thin films. Journal of Alloys and Compounds, 2011, 509, 5437-5440.	2.8	42
96	All-Inorganic Perovskite Photodetectors with Ultrabroad Linear Dynamic Range for Weak-Light Imaging Applications. Advanced Optical Materials, 2020, 8, 2001436.	3.6	42
97	Vertically aligned ZnO nanowire arrays on GaN and SiC substrates. Chemical Physics Letters, 2008, 460, 253-256.	1.2	40
98	High performance MoO ₃ /Si heterojunction photodetectors with nanoporous pyramid Si arrays for visible light communication application. Journal of Materials Chemistry C, 2019, 7, 917-925.	2.7	40
99	Metal chelate induced <i>in situ</i> wrapping of Ni ₃ S ₂ nanoparticles into N, S-codoped carbon networks for highly efficient sodium storage. Inorganic Chemistry Frontiers, 2019, 6, 694-704.	3.0	40
100	Synthesis and characterization of Zn _{1-x} MnxO nanowires. Applied Physics Letters, 2008, 92, .	1.5	39
101	Unveiling the electrochromic mechanism of Prussian Blue by electronic transition analysis. Nano Energy, 2020, 78, 105148.	8.2	39
102	Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. Nano Letters, 2021, 21, 1161-1168.	4.5	39
103	All-inorganic lead-free NiOx/Cs ₃ Bi ₂ Br ₉ perovskite heterojunction photodetectors for ultraviolet multispectral imaging. Nano Research, 2022, 15, 1094-1101.	5.8	39
104	Understanding the improved performance of sulfur-doped interconnected carbon microspheres for Na-ion storage. , 2021, 3, 615-626.		38
105	Importance of Bi-O Bonds at the Cs ₂ AgBiBr ₆ Double-Perovskite/Substrate Interface for Crystal Quality and Photoelectric Performance. ACS Applied Materials & Interfaces, 2020, 12, 6064-6073.	4.0	37
106	All-inorganic Cs ₂ AgBiBr ₆ /CuSCN-based photodetectors for weak light imaging. Science China Materials, 2021, 64, 198-208.	3.5	37
107	Regulation of ferric iron vacancy for Prussian blue analogue cathode to realize high-performance potassium ion storage. Nano Energy, 2022, 98, 107243.	8.2	37
108	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. Nanoscale, 2012, 4, 5755.	2.8	36

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109	Utilizing polyaniline to dominate the crystal phase of Ni(OH) ₂ and its effect on the electrochemical property of polyaniline/Ni(OH) ₂ composite. Journal of Alloys and Compounds, 2015, 651, 126-134.	2.8	36
110	Flexible honeycomb-like NiMn layered double hydroxide/carbon cloth architecture for electrochemical energy storage. Materials Letters, 2016, 175, 275-278.	1.3	36
111	Insights on the mechanism of Na-ion storage in expanded graphite anode. Journal of Energy Chemistry, 2021, 53, 56-62.	7.1	36
112	Significantly Enhanced Detectivity of CIGS Broadband High-Speed Photodetectors by Grain Size Control and ALD-Al ₂ O ₃ Interfacial-Layer Modification. ACS Applied Materials & Interfaces, 2019, 11, 20157-20166.	4.0	34
113	Insights to pseudocapacitive charge storage of binary metal-oxide nanobelts decorated activated carbon cloth for highly-flexible hybrid-supercapacitors. Journal of Energy Storage, 2020, 31, 101602.	3.9	34
114	The influence of nitrogen source and doping sequence on the electrocatalytic activity for oxygen reduction reaction of nitrogen doped carbon materials. International Journal of Hydrogen Energy, 2016, 41, 13493-13503.	3.8	33
115	Solution-Processed High-Quality Cu ₂ O Thin Films as Hole Transport Layers for Pushing the Conversion Efficiency Limit of Cu ₂ O/Si Heterojunction Solar Cells. Solar Rrl, 2020, 4, 1900339.	3.1	33
116	Coordination and interface engineering to boost catalytic property of two-dimensional ZIFs for wearable Zn-air batteries. Journal of Energy Chemistry, 2022, 68, 78-86.	7.1	33
117	TiO ₂ nanowires for potential facile integration of solar cells and electrochromic devices. Nanotechnology, 2013, 24, 435403.	1.3	32
118	Facile synthesis of TiO ₂ /Mn ₃ O ₄ hierarchical structures for fiber-shaped flexible asymmetric supercapacitors with ultrahigh stability and tailorable performance. Journal of Materials Chemistry A, 2017, 5, 814-821.	5.2	32
119	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassium-Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	32
120	Conductive methyl blue-functionalized reduced graphene oxide with excellent stability and solubility in water. Materials Research Bulletin, 2011, 46, 2353-2358.	2.7	31
121	Re-oxidation reconstruction process of solid electrolyte interphase layer derived from highly active anion for potassium-ion batteries. Nano Energy, 2021, 87, 106150.	8.2	31
122	Manipulating Interfacial Stability Via Absorption-Competition Mechanism for Long-Lifespan Zn Anode. Nano-Micro Letters, 2022, 14, 31.	14.4	30
123	Highly active and stable non noble metal catalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 10423-10434.	3.8	29
124	Quantifying oxygen diffusion in ZnO nanobelt. Applied Physics Letters, 2006, 89, 063125.	1.5	28
125	Co-doped Y-shape ZnO nanostructures: Synthesis, structure and properties. Solid State Communications, 2009, 149, 293-296.	0.9	28
126	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. ChemNanoMat, 2015, 1, 458-476.	1.5	28

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127	A Robust Solid Electrolyte Interphase Layer Augments the Ion Storage Capacity of Bimetallic Sulfide-Containing Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 14882-14889.	1.6	27
128	Achieving 256 Å–256 Å Pixel Color Images by Perovskite-Based Photodetectors Coupled with Algorithms. <i>Advanced Functional Materials</i> , 2021, 31, 2104320.	7.8	27
129	Measuring the transport property of ZnO tetrapod using in situ nanoprobe. <i>Chemical Physics Letters</i> , 2010, 484, 96-99.	1.2	26
130	TiO ₂ electron transport bilayer for all-inorganic perovskite photodetectors with remarkably improved UV stability toward imaging applications. <i>Journal of Materials Science and Technology</i> , 2021, 75, 39-47.	5.6	26
131	Strain sensing mechanism of the fabricated ZnO nanowire-polymer composite strain sensors. <i>Chemical Physics Letters</i> , 2012, 538, 99-101.	1.2	25
132	Tunneling-assisted highly sensitive and stable lead-free Cs ₃ Bi ₂ I ₉ perovskite photodetectors for diffuse reflection imaging. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1008-1013.	2.7	25
133	Pt/Zn heterostructure as efficient air-electrocatalyst for long-life neutral Zn-air batteries. <i>Science China Materials</i> , 2021, 64, 1868-1875.	3.5	25
134	Underwater Multispectral Computational Imaging Based on a Broadband Water-Resistant Sb ₂ Se ₃ Heterojunction Photodetector. <i>ACS Nano</i> , 2022, 16, 5820-5829.	7.3	25
135	Statistical approach to quantifying the elastic deformation of nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11845-11850.	3.3	24
136	High-performance flexible dye-sensitized solar cells by using hierarchical anatase TiO ₂ nanowire arrays. <i>RSC Advances</i> , 2015, 5, 88052-88058.	1.7	24
137	Rational design of a tripartite-layered TiO ₂ photoelectrode: a candidate for enhanced power conversion efficiency in dye sensitized solar cells. <i>Nanoscale</i> , 2017, 9, 9913-9920.	2.8	24
138	Freestanding polypyrrole/carbon nanotube electrodes with high mass loading for robust flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1324-1329.	3.2	24
139	In Situ Monitoring the Potassium-Ion Storage Enhancement in Iron Selenide with Ether-Based Electrolyte. <i>Nano-Micro Letters</i> , 2021, 13, 179.	14.4	24
140	Three-level hierarchical TiO ₂ nanostructure based high efficiency dye-sensitized solar cells. <i>CrystEngComm</i> , 2014, 16, 1020-1025.	1.3	23
141	Anatase TiO ₂ single crystal hollow nanoparticles: their facile synthesis and high-performance in dye-sensitized solar cells. <i>CrystEngComm</i> , 2017, 19, 325-334.	1.3	23
142	Significantly Enhancing Response Speed of Self-Powered Cu ₂ ZnSn(S,Se) ₄ Thin Film Photodetectors by Atomic Layer Deposition of Simultaneous Electron Blocking and Electrode Protective Al ₂ O ₃ Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32097-32107.	4.0	23
143	Oxygen-sensing materials based on ruthenium(II) complex covalently assembled mesoporous MSU-3 silica. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 677-683.	4.0	22
144	In situ growth of a TiO ₂ layer on a flexible Ti substrate targeting the interface recombination issue of BiVO ₄ photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20195-20201.	5.2	22

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145	A decade of advanced rechargeable batteries development guided by in situ transmission electron microscopy. <i>Nano Energy</i> , 2021, 83, 105780.	8.2	22
146	Fabrication of n-type ZnO nanowire/graphene/p-type silicon hybrid structures and electrical properties of heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16111.	1.3	20
147	Valence-State Controllable Fabrication of Cu ₂ O/Si Type-II Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43376-43382.	4.0	20
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