

Wenjie Mai

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206
papers

13,758
citations

55
h-index

114
g-index

226
ext. papers

16,222
ext. citations

9.5
avg, IF

6.79
L-index

#	Paper	IF	Citations
206	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, 731-6	11.5	916
205	Conversion of zinc oxide nanobelts into superlattice-structured nanohelices. <i>Science</i> , 2005 , 309, 1700-4	33.3	769
204	Hydrogenated ZnO core-shell nanocables for flexible supercapacitors and self-powered systems. <i>ACS Nano</i> , 2013 , 7, 2617-26	16.7	724
203	Flexible piezotronic strain sensor. <i>Nano Letters</i> , 2008 , 8, 3035-40	11.5	634
202	Flexible solid-state electrochemical supercapacitors. <i>Nano Energy</i> , 2014 , 8, 274-290	17.1	610
201	Fiber-based all-solid-state flexible supercapacitors for self-powered systems. <i>ACS Nano</i> , 2012 , 6, 9200-6	16.7	554
200	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	3.4	471
199	Flexible electrochromic supercapacitor hybrid electrodes based on tungsten oxide films and silver nanowires. <i>Chemical Communications</i> , 2016 , 52, 6296-9	5.8	325
198	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 4566-71	24	313
197	Electrochromic energy storage devices. <i>Materials Today</i> , 2016 , 19, 394-402	21.8	293
196	Ultrahigh-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	15.6	287
195	Piezoelectric-potential-controlled polarity-reversible Schottky diodes and switches of ZnO wires. <i>Nano Letters</i> , 2008 , 8, 3973-7	11.5	244
194	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, 14958-9	16.4	243
193	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	35.4	241
192	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	10.4	196
191	Large-scale fabrication of pseudocapacitive glass windows that combine electrochromism and energy storage. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11935-9	16.4	183
190	Tailorable and Wearable Textile Devices for Solar Energy Harvesting and Simultaneous Storage. <i>ACS Nano</i> , 2016 , 10, 9201-9207	16.7	172

189	BiO BiVO ₄ photoanodes with significantly improved solar water splitting capability: p-n junction to expand solar adsorption range and facilitate charge carrier dynamics. <i>Nano Energy</i> , 2015 , 18, 222-231	17.1	157
188	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. <i>Nature Communications</i> , 2019 , 10, 3687	17.4	149
187	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	13	148
186	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. <i>Nano Energy</i> , 2016 , 26, 446-455	17.1	147
185	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. <i>Nano Research</i> , 2016 , 9, 2823-2851	10	140
184	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <i>Advanced Science</i> , 2016 , 3, 1500299	13.6	132
183	Sulphur-doped reduced graphene oxide sponges as high-performance free-standing anodes for K-ion storage. <i>Nano Energy</i> , 2018 , 53, 415-424	17.1	129
182	Synergistic antibacterial brilliant blue/reduced graphene oxide/quaternary phosphonium salt composite with excellent water solubility and specific targeting capability. <i>Langmuir</i> , 2011 , 27, 7828-35	4	125
181	Aspect ratio dependence of the elastic properties of ZnO nanobelts. <i>Nano Letters</i> , 2007 , 7, 1314-7	11.5	125
180	WO ₃ nanoflowers with excellent pseudo-capacitive performance and the capacitance contribution analysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7266-7273	13	123
179	Significantly enhanced robustness and electrochemical performance of flexible carbon nanotube-based supercapacitors by electrodepositing polypyrrole. <i>Journal of Power Sources</i> , 2015 , 287, 68-74	8.9	122
178	Significantly enhanced photocatalytic activities and charge separation mechanism of Pd-decorated ZnO-graphene oxide nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3623-9	9.5	113
177	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	16.4	113
176	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	13	112
175	Rational design of MoS ₂ -reduced graphene oxide sponges as free-standing anodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 332, 260-266	14.7	111
174	Design of pomegranate-like clusters with NiS ₂ nanoparticles anchored on nitrogen-doped porous carbon for improved sodium ion storage performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6595-6605	13	110
173	Elastic Properties and Buckling of Silicon Nanowires. <i>Advanced Materials</i> , 2008 , 20, 3919-3923	24	108
172	Superelasticity and nanofracture mechanics of ZnO nanohelices. <i>Nano Letters</i> , 2006 , 6, 2536-43	11.5	108

171	NiFe nanoparticles embedded N-doped carbon nanotubes as high-efficient electrocatalysts for wearable solid-state Zn-air batteries. <i>Nano Energy</i> , 2020 , 68, 104293	17.1	107
170	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	13	106
169	Rational design of metal organic framework-derived FeS hollow nanocages@reduced graphene oxide for K-ion storage. <i>Nanoscale</i> , 2018 , 10, 17092-17098	7.7	97
168	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	17.1	95
167	Electrochromic Asymmetric Supercapacitor Windows Enable Direct Determination of Energy Status by the Naked Eye. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34085-34092	9.5	94
166	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	13	91
165	Freestanding CNT/WO ₃ hybrid electrodes for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12076-12080	13	87
164	A Robust Solid Electrolyte Interphase Layer Augments the Ion Storage Capacity of Bimetallic-Sulfide-Containing Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14740-14747	16.4	83
163	Ceria and ceria-based nanostructured materials for photoenergy applications. <i>Nano Energy</i> , 2017 , 34, 313-337	17.1	79
162	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	3.8	74
161	In-situ encapsulation of Ni ₃ S ₂ nanoparticles into N-doped interconnected carbon networks for efficient lithium storage. <i>Chemical Engineering Journal</i> , 2019 , 378, 122108	14.7	73
160	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	16.7	73
159	Atomic-Layer Deposition-Assisted Double-Side Interfacial Engineering for High-Performance Flexible and Stable CsPbBr Perovskite Photodetectors toward Visible Light Communication Applications. <i>Small</i> , 2019 , 15, e1902135	11	65
158	Integration of Energy Harvesting and Electrochemical Storage Devices. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700182	6.8	63
157	Atomic Layer Deposition of Amorphous TiO ₂ on Carbon Nanotube Networks and Their Superior Li and Na Ion Storage Properties. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600375	4.6	63
156	K-Ion Storage Enhancement in Sb ₂ O ₃ /Reduced Graphene Oxide Using Ether-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020 , 10, 1903455	21.8	59
155	Novel 3D Nanoporous Zn-Cu Alloy as Long-Life Anode toward High-Voltage Double Electrolyte Aqueous Zinc-Ion Batteries. <i>Small</i> , 2020 , 16, e2001323	11	56
154	Stretchable Ni@NiCoP textile for wearable energy storage clothes. <i>Nano Energy</i> , 2019 , 55, 506-515	17.1	56

153	Nitrogen doped amorphous carbon as metal free electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 876-885	6.7	55
152	Quantifying the elastic deformation behavior of bridged nanobelts. <i>Applied Physics Letters</i> , 2006 , 89, 073112	3.4	55
151	Luminescent properties of orange-emitting long-lasting phosphorescence phosphor Ca ₂ SnO ₄ :Sm ³⁺ . <i>Solid State Sciences</i> , 2011 , 13, 525-528	3.4	54
150	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	17.1	54
149	Interface Engineering To Boost Photoresponse Performance of Self-Powered, Broad-Bandwidth PEDOT:PSS/Si Heterojunction Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19158-67	9.5	53
148	Combining Bulk/Surface Engineering of Hematite To Synergistically Improve Its Photoelectrochemical Water Splitting Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16071-7	9.5	53
147	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	17.1	53
146	A Flexible Microsupercapacitor with Integral Photocatalytic Fuel Cell for Self-Charging. <i>ACS Nano</i> , 2019 , 13, 8246-8255	16.7	52
145	A novel CoOOH/(Ti, C)-Fe ₂ O ₃ nanorod photoanode for photoelectrochemical water splitting. <i>Science China Materials</i> , 2018 , 61, 887-894	7.1	52
144	Self-Powered, High-Speed and Visible-Near Infrared Response of MoO(3-x)/n-Si Heterojunction Photodetector with Enhanced Performance by Interfacial Engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25981-90	9.5	51
143	Construction of highly dispersed mesoporous bimetallic-sulfide nanoparticles locked in N-doped graphitic carbon nanosheets for high energy density hybrid flexible pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17435-17445	13	50
142	Mesoporous manganese-selenide microflowers with enhanced electrochemical performance as a flexible symmetric 1.8 V supercapacitor. <i>Chemical Engineering Journal</i> , 2020 , 382, 122814	14.7	50
141	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	2.6	48
140	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, 1664-70	4.5	47
139	Carboxymethyl Cellulose Binder Greatly Stabilizes Porous Hollow Carbon Submicrospheres in Capacitive K-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15581-15590	9.5	44
138	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	21.8	43
137	Visualized UV Photodetectors Based on Prussian Blue/TiO ₂ for Smart Irradiation Monitoring Application. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700288	6.8	43
136	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	8.9	42

135	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	6.7	42
134	Solar-powered overall water splitting system combing metal-organic frameworks derived bimetallic nanohybrids based electrocatalysts and one organic solar cell. <i>Nano Energy</i> , 2019 , 56, 82-91	17.1	42
133	Tunable electric and magnetic properties of Co _x Zn _{1-x} S nanowires. <i>Applied Physics Letters</i> , 2008 , 93, 242503	3.4	40
132	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	8.9	39
131	Role of graphene in great enhancement of photocatalytic activity of ZnO nanoparticle-graphene hybrids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 47, 279-284	3	39
130	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 ¹³	13	38
129	Nanowire as pico-gram balance at workplace atmosphere. <i>Solid State Communications</i> , 2006 , 139, 222-226	266	38
128	Synthesis and characterization of Zn _{1-x} Mn _x O nanowires. <i>Applied Physics Letters</i> , 2008 , 92, 162102	3.4	37
127	Vertically aligned ZnO nanowire arrays on GaN and SiC substrates. <i>Chemical Physics Letters</i> , 2008 , 460, 253-256	2.5	37
126	Strongly Coupled NiCoO Nanocrystal/MXene Hybrid through In Situ Ni/Co-F Bonds for Efficient Wearable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44639-44647	9.5	36
125	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	6.7	35
124	High-Performance Porous Molybdenum Oxynitride Based Fiber Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29699-29706	9.5	35
123	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. <i>Nanoscale</i> , 2012 , 4, 5755-60	7.7	34
122	Novel blue-violet photoluminescence from sputtered ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5437-5440	5.7	34
121	Insight into the nitrogen-doped carbon as oxygen reduction reaction catalyst: The choice of carbon/nitrogen source and active sites. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8563-8575	6.7	34
120	Theoretical calculation guided electrocatalysts design: Nitrogen saturated porous Mo ₂ C nanostructures for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117891	21.8	33
119	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. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24543-24556	13	33
118	Utilizing polyaniline to dominate the crystal phase of Ni(OH) ₂ and its effect on the electrochemical property of polyaniline/Ni(OH) ₂ composite. <i>Journal of Alloys and Compounds</i> , 2015 , 651, 126-134	5.7	31

117	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	10.6	31
116	High-Performance Na-Ion Storage of S-Doped Porous Carbon Derived from Conjugated Microporous Polymers. <i>Nano-Micro Letters</i> , 2019 , 11, 60	19.5	30
115	Facile synthesis of TiO ₂ /Mn ₃ O ₄ hierarchical structures for fiber-shaped flexible asymmetric supercapacitors with ultrahigh stability and tailorable performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 814-821	13	30
114	The influence of nitrogen source and doping sequence on the electrocatalytic activity for oxygen reduction reaction of nitrogen doped carbon materials. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13493-13503	6.7	29
113	Flexible honeycomb-like NiMn layered double hydroxide/carbon cloth architecture for electrochemical energy storage. <i>Materials Letters</i> , 2016 , 175, 275-278	3.3	28
112	High performance MoO ₃ /Si heterojunction photodetectors with nanoporous pyramid Si arrays for visible light communication application. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 917-925	7.1	27
111	Co-doped Y-shape ZnO nanostructures: Synthesis, structure and properties. <i>Solid State Communications</i> , 2009 , 149, 293-296	1.6	27
110	Highly active and stable non noble metal catalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 10423-10434	6.7	26
109	Metal chelate induced in situ wrapping of Ni ₃ S ₂ nanoparticles into N, S-codoped carbon networks for highly efficient sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 694-704	6.8	26
108	TiO ₂ nanowires for potential facile integration of solar cells and electrochromic devices. <i>Nanotechnology</i> , 2013 , 24, 435403	3.4	26
107	Quantifying oxygen diffusion in ZnO nanobelt. <i>Applied Physics Letters</i> , 2006 , 89, 063125	3.4	26
106	Importance of Bi-O Bonds at the CsAgBiBr Double-Perovskite/Substrate Interface for Crystal Quality and Photoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6064-6073	9.5	26
105	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. <i>ChemNanoMat</i> , 2015 , 1, 458-476	3.5	25
104	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin NiCo ₂ O ₄ nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020 , 349, 136384	6.7	25
103	Conductive methyl blue-functionalized reduced graphene oxide with excellent stability and solubility in water. <i>Materials Research Bulletin</i> , 2011 , 46, 2353-2358	5.1	24
102	Significantly Enhanced Detectivity of CIGS Broadband High-Speed Photodetectors by Grain Size Control and ALD-ALO Interfacial-Layer Modification. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20157-20166	9.5	23
101	Measuring the transport property of ZnO tetrapod using in situ nanoprobe. <i>Chemical Physics Letters</i> , 2010 , 484, 96-99	2.5	23
100	Ultrahigh Relative Energy Density and Mass Loading of Carbon Cloth Anodes for K-Ion Batteries. <i>CCS Chemistry</i> , 2021 , 3, 791-799	7.2	23

99	Strain sensing mechanism of the fabricated ZnO nanowire-polymer composite strain sensors. <i>Chemical Physics Letters</i> , 2012 , 538, 99-101	2.5	21
98	Three-level hierarchical TiO ₂ nanostructure based high efficiency dye-sensitized solar cells. <i>CrystEngComm</i> , 2014 , 16, 1020-1025	3.3	21
97	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, 11845-50	11.5	21
96	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	8.5	20
95	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. <i>Solar Rrl</i> , 2020 , 4, 1900339	7.1	20
94	Rational design of a tripartite-layered TiO photoelectrode: a candidate for enhanced power conversion efficiency in dye sensitized solar cells. <i>Nanoscale</i> , 2017 , 9, 9913-9920	7.7	19
93	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	3.3	19
92	High-performance flexible dye-sensitized solar cells by using hierarchical anatase TiO ₂ nanowire arrays. <i>RSC Advances</i> , 2015 , 5, 88052-88058	3.7	19
91	All-Inorganic Perovskite Photodetectors with Ultrabroad Linear Dynamic Range for Weak-Light Imaging Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 2001436	8.1	19
90	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, 16111-4	3.6	18
89	All-inorganic Cs ₂ AgBiBr ₆ /CuSCN-based photodetectors for weak light imaging. <i>Science China Materials</i> , 2021 , 64, 198-208	7.1	18
88	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 ^{13, 17}	13	17
87	Large-Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. <i>Angewandte Chemie</i> , 2014 , 126, 12129-12133	3.6	16
86	Insights on the mechanism of Na-ion storage in expanded graphite anode. <i>Journal of Energy Chemistry</i> , 2021 , 53, 56-62	12	16
85	Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. <i>Nano Letters</i> , 2021 , 21, 1161-1168	11.5	16
84	Activating lattice oxygen in NiFe-based (oxy)hydroxide for water electrolysis.. <i>Nature Communications</i> , 2022 , 13, 2191	17.4	16
83	Morphology-controllable ZnO nanotubes and nanowires: synthesis, growth mechanism and hydrophobic property. <i>CrystEngComm</i> , 2012 , 14, 1723-1728	3.3	15
82	Mechanical and electrical characterization of semiconducting ZnO nanorings by direct nano-manipulation. <i>Applied Physics Letters</i> , 2012 , 101, 081910	3.4	15

81	Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600430	4.6	15
80	Significantly Enhancing Response Speed of Self-Powered CuZnSn(S,Se) Thin Film Photodetectors by Atomic Layer Deposition of Simultaneous Electron Blocking and Electrode Protective AlO Layers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32097-32107	9.5	14
79	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	3.6	14
78	Pre-stabilized reduced graphene oxide by ammonia as carrier for Ni(OH) ₂ with excellent electrochemical property. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 229-239	2.6	13
77	Valence-State Controllable Fabrication of CuO/Si Type-II Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43376-43382	9.5	13
76	Optical modeling of organic solar cells based on rubrene and C70. <i>Applied Optics</i> , 2012 , 51, 5718-23	1.7	13
75	Supramolecular Hydrogels Sustained Release Triclosan with Controlled Antibacterial Activity and Limited Cytotoxicity. <i>Science of Advanced Materials</i> , 2013 , 5, 1400-1409	2.3	13
74	Enhancing the photodetection performance of MAPbI perovskite photodetectors by a dual functional interfacial layer for color imaging. <i>Optics Letters</i> , 2021 , 46, 150-153	3	13
73	Reliable Information Encryption and Digital Display Applications Based on Multistate Smart Windows. <i>Advanced Optical Materials</i> , 2018 , 6, 1800338	8.1	13
72	Phytoplankton derived and KOH activated mesoporous carbon materials for supercapacitors. <i>Materials Letters</i> , 2017 , 205, 98-101	3.3	12
71	A review of hard carbon anode: Rational design and advanced characterization in potassium ion batteries. <i>Information Materials</i> ,	23.1	12
70	Unveiling the electrochromic mechanism of Prussian Blue by electronic transition analysis. <i>Nano Energy</i> , 2020 , 78, 105148	17.1	12
69	Insights to pseudocapacitive charge storage of binary metal-oxide nanobelts decorated activated carbon cloth for highly-flexible hybrid-supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 31, 101602	7.8	11
68	Heteroatomic Interface Engineering of MOF-Derived Metal-Embedded P- and N-Codoped Zn Node Porous Polyhedral Carbon with Enhanced Sodium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8892-8902	6.1	11
67	Freestanding polypyrrole/carbon nanotube electrodes with high mass loading for robust flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1324-1329	7.8	11
66	Facile conversion of rutile titanium dioxide nanowires to nanotubes for enhancing the performance of dye-sensitized solar cells. <i>CrystEngComm</i> , 2015 , 17, 1115-1120	3.3	10
65	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	3.6	10
64	Size dependence of the mechanical properties of ZnO nanobelts. <i>Philosophical Magazine</i> , 2007 , 87, 2135-2141	2.1	10

63	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	9.1	10
62	Fabrication and integration of quasi-one-dimensional hierarchical TiO ₂ nanotubes for dye-sensitized solar cells. <i>CrystEngComm</i> , 2015 , 17, 8327-8331	3.3	9
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