Guozhong Cao

List of Publications by Year
in descending order

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525 papers	44,277 citations	1536 106 h-index	3650 180 g-index
543 all docs	543 docs citations	543 times ranked	36709 citing authors

#	Article	IF	Citations
1	ZnO Nanostructures for Dyeâ€Sensitized Solar Cells. Advanced Materials, 2009, 21, 4087-4108.	21.0	1,629
2	Nanomaterials for energy conversion and storage. Chemical Society Reviews, 2013, 42, 3127.	38.1	1,356
3	Developments in Nanostructured Cathode Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2008, 20, 2251-2269.	21.0	1,050
4	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. Chemical Reviews, 2020, 120, 7795-7866.	47.7	950
5	Nanostructured carbon for energy storage and conversion. Nano Energy, 2012, 1, 195-220.	16.0	895
6	Understanding electrochemical potentials of cathode materials in rechargeable batteries. Materials Today, 2016, 19, 109-123.	14.2	811
7	A Selfâ€Charging Power Unit by Integration of a Textile Triboelectric Nanogenerator and a Flexible Lithiumâ€Ion Battery for Wearable Electronics. Advanced Materials, 2015, 27, 2472-2478.	21.0	646
8	Nanostructured photoelectrodes for dye-sensitized solar cells. Nano Today, 2011, 6, 91-109.	11.9	601
9	Aggregation of ZnO Nanocrystallites for High Conversion Efficiency in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2008, 47, 2402-2406.	13.8	598
10	Expanded hydrated vanadate for high-performance aqueous zinc-ion batteries. Energy and Environmental Science, 2019, 12, 2273-2285.	30.8	512
11	Hydrogenated Li₄Ti₅O₁₂ Nanowire Arrays for High Rate Lithium Ion Batteries. Advanced Materials, 2012, 24, 6502-6506.	21.0	451
12	Synthesis and Enhanced Intercalation Properties of Nanostructured Vanadium Oxides. Chemistry of Materials, 2006, 18, 2787-2804.	6.7	428
13	A review on recent developments and challenges of cathode materials for rechargeable aqueous Zn-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18209-18236.	10.3	387
14	Oriented Nanostructures for Energy Conversion and Storage. ChemSusChem, 2008, 1, 676-697.	6.8	367
15	MoSe2 nanosheets perpendicularly grown on graphene with Moâ€“C bonding for sodium-ion capacitors. Nano Energy, 2018, 47, 224-234.	16.0	358
16	Template-based synthesis of nanorod, nanowire, and nanotube arrays. Advances in Colloid and Interface Science, 2008, 136, 45-64.	14.7	331
17	Li₄Ti₅O₁₂ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. Advanced Energy Materials, 2012, 2, 691-698.	19.5	321
18	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. Journal of Materials Chemistry, 2010, 20, 9193.	6.7	316

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19	Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted Polymer Solar Cells. Advanced Functional Materials, 2012, 22, 2194-2201.	14.9	292
20	Highly Efficient and Stable Perovskite Solar Cells Based on Monolithically Grained CH₃NH₃PbI₃ Film. Advanced Energy Materials, 2017, 7, 1602017.	19.5	291
21	ZnO cathode buffer layers for inverted polymer solar cells. Energy and Environmental Science, 2015, 8, 3442-3476.	30.8	279
22	Polydisperse Aggregates of ZnO Nanocrystallites: A Method for Energyâ€Conversionâ€Efficiency Enhancement in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2008, 18, 1654-1660.	14.9	278
23	From scalable solution fabrication of perovskite films towards commercialization of solar cells. Energy and Environmental Science, 2019, 12, 518-549.	30.8	269
24	Impacts of Oxygen Vacancies on Zinc Ion Intercalation in VO₂. ACS Nano, 2020, 14, 5581-5589.	14.6	267
25	Synthesis and Electrochemical Properties of Single-Crystal V2O5 Nanorod Arrays by Template-Based Electrodeposition. Journal of Physical Chemistry B, 2004, 108, 9795-9800.	2.6	256
26	Facile synthesis of ultrathin NiCo₂S₄ nano-petals inspired by blooming buds for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 7144-7152.	10.3	251
27	Novel Carbonâ€Encapsulated Porous SnO₂ Anode for Lithiumâ€Ion Batteries with Much Improved Cyclic Stability. Small, 2016, 12, 1945-1955.	10.0	247
28	Engineering nanostructured electrodes and fabrication of film electrodes for efficient lithium ion intercalation. Energy and Environmental Science, 2010, 3, 1218.	30.8	244
29	Nitrogen-Doped Yolkâ€“Shell-Structured CoSe/C Dodecahedra for High-Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3624-3633.	8.0	244
30	Beyond Li-ion: electrode materials for sodium- and magnesium-ion batteries. Science China Materials, 2015, 58, 715-766.	6.3	241
31	Effects of Dye Loading Conditions on the Energy Conversion Efficiency of ZnO and TiO₂ Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 18804-18811.	3.1	232
32	Preparation of carbon coated MoS2 flower-like nanostructure with self-assembled nanosheets as high-performance lithium-ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 7862.	10.3	226
33	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. Energy Storage Materials, 2018, 11, 205-259.	18.0	221
34	Free-standing SnS/C nanofiber anodes for ultralong cycle-life lithium-ion batteries and sodium-ion batteries. Energy Storage Materials, 2019, 17, 1-11.	18.0	221
35	Nitrogen modification of highly porous carbon for improved supercapacitor performance. Journal of Materials Chemistry, 2012, 22, 9884.	6.7	212
36	Applications of light scattering in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 14982.	2.8	209

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37	Design and Tailoring of a Three-Dimensional TiO₂â€“Grapheneâ€“Carbon Nanotube Nanocomposite for Fast Lithium Storage. Journal of Physical Chemistry Letters, 2011, 2, 3096-3101.	4.6	205
38	Co₃S₄@polyaniline nanotubes as high-performance anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 5505-5516.	10.3	204
39	Leafâ€Like V₂O₅ Nanosheets Fabricated by a Facile Green Approach as High Energy Cathode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 1171-1175.	19.5	200
40	V₂O₅ Nanoâ€Electrodes with High Power and Energy Densities for Thin Film Liâ€Ion Batteries. Advanced Energy Materials, 2011, 1, 194-202.	19.5	197
41	Effect of an Ultrathin TiO₂ Layer Coated on Submicrometerâ€Sized ZnO Nanocrystallite Aggregates by Atomic Layer Deposition on the Performance of Dyeâ€Sensitized Solar Cells. Advanced Materials, 2010, 22, 2329-2332.	21.0	196
42	General Strategy for Designing Coreâ€“Shell Nanostructured Materials for High-Power Lithium Ion Batteries. Nano Letters, 2012, 12, 5673-5678.	9.1	193
43	Synthesis and Electrochemical Properties of Vanadium Pentoxide Nanotube Arrays. Journal of Physical Chemistry B, 2005, 109, 3085-3088.	2.6	191
44	Mesocrystal MnO cubes as anode for Li-ion capacitors. Nano Energy, 2016, 22, 290-300.	16.0	189
45	Fast and reversible zinc ion intercalation in Al-ion modified hydrated vanadate. Nano Energy, 2020, 70, 104519.	16.0	188
46	A low crystallinity oxygen-vacancy-rich Co₃O₄ cathode for high-performance flexible asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 16094-16100.	10.3	182
47	Coherent Carbon Cryogelâ€“Ammonia Borane Nanocomposites for H2 Storage. Journal of Physical Chemistry B, 2007, 111, 7469-7472.	2.6	177
48	Enhanced Performance of CdS/CdSe Quantum Dot Cosensitized Solar Cells via Homogeneous Distribution of Quantum Dots in TiO₂ Film. Journal of Physical Chemistry C, 2012, 116, 18655-18662.	3.1	176
49	Mesoporous vanadium pentoxide nanofibers with significantly enhanced Li-ion storage properties by electrospinning. Energy and Environmental Science, 2011, 4, 858-861.	30.8	175
50	Fast and Reversible Li Ion Insertion in Carbonâ€Encapsulated Li₃VO₄ as Anode for Lithiumâ€Ion Battery. Advanced Functional Materials, 2015, 25, 3497-3504.	14.9	173
51	Titania Particle Size Effect on the Overall Performance of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 6296-6302.	3.1	172
52	Encapsulation of CoS_x Nanocrystals into N/S Coâ€Doped Honeycombâ€Like 3D Porous Carbon for Highâ€Performance Lithium Storage. Advanced Science, 2018, 5, 1800829.	11.2	172
53	Sn-Doped V₂O₅ Film with Enhanced Lithium-Ion Storage Performance. Journal of Physical Chemistry C, 2013, 117, 23507-23514.	3.1	170
54	Walnut-like Porous Core/Shell TiO₂ with Hybridized Phases Enabling Fast and Stable Lithium Storage. ACS Applied Materials & Interfaces, 2017, 9, 10652-10663.	8.0	169

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55	Flexible and Wearable Allâ€Solidâ€State Supercapacitors with Ultrahigh Energy Density Based on a Carbon Fiber Fabric Electrode. Advanced Energy Materials, 2017, 7, 1700409.	19.5	169
56	Seed-induced growing various TiO2 nanostructures on g-C3N4 nanosheets with much enhanced photocatalytic activity under visible light. Journal of Hazardous Materials, 2015, 292, 79-89.	12.4	166
57	Integration of micro-supercapacitors with triboelectric nanogenerators for a flexible self-charging power unit. Nano Research, 2015, 8, 3934-3943.	10.4	164
58	Dual-ion batteries: The emerging alternative rechargeable batteries. Energy Storage Materials, 2020, 25, 1-32.	18.0	160
59	TiO2 nanotube arrays fabricated by anodization in different electrolytes for biosensing. Electrochemistry Communications, 2007, 9, 2441-2447.	4.7	155
60	Mesoporous Hydrous Manganese Dioxide Nanowall Arrays with Large Lithium Ion Energy Storage Capacities. Advanced Functional Materials, 2009, 19, 1015-1023.	14.9	155
61	Nanoflake-constructed porous Na3V2(PO4)3/C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. Nano Energy, 2019, 60, 312-323.	16.0	154
62	Exploiting Highâ€Performance Anode through Tuning the Character of Chemical Bonds for Liâ€Ion Batteries and Capacitors. Advanced Energy Materials, 2017, 7, 1601127.	19.5	149
63	Doping effect in layer structured SrBi2Nb2O9 ferroelectrics. Journal of Applied Physics, 2001, 90, 5296-5302.	2.5	147
64	Comparison of amorphous, pseudohexagonal and orthorhombic Nb₂O₅ for high-rate lithium ion insertion. CrystEngComm, 2016, 18, 2532-2540.	2.6	146
65	Additive-free synthesis of unique TiO₂mesocrystals with enhanced lithium-ion intercalation properties. Energy and Environmental Science, 2012, 5, 5408-5413.	30.8	145
66	Lamellar MoSe₂nanosheets embedded with MoO₂nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. Nanoscale, 2016, 8, 17902-17910.	5.6	143
67	Self-doped V 4+ â€“V 2 O 5 nanoflake for 2 Li-ion intercalation with enhanced rate and cycling performance. Nano Energy, 2016, 22, 1-10.	16.0	143
68	Phosphorus/sulfur Co-doped porous carbon with enhanced specific capacitance for supercapacitor and improved catalytic activity for oxygen reduction reaction. Journal of Power Sources, 2016, 314, 39-48.	7.8	141
69	Hierarchically structured photoelectrodes for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 6769.	6.7	139
70	Structural engineering of hydrated vanadium oxide cathode by K+ incorporation for high-capacity and long-cycling aqueous zinc ion batteries. Energy Storage Materials, 2020, 29, 9-16.	18.0	139
71	rGO/SnS₂/TiO₂heterostructured composite with dual-confinement for enhanced lithium-ion storage. Journal of Materials Chemistry A, 2017, 5, 25056-25063.	10.3	136
72	Sulfurized activated carbon for high energy density supercapacitors. Journal of Power Sources, 2014, 252, 90-97.	7.8	135

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73	Template-free synthesis of ultra-large V2O5 nanosheets with exceptional small thickness for high-performance lithium-ion batteries. Nano Energy, 2015, 13, 58-66.	16.0	135
74	TiNb₂O₇/graphene composites as high-rate anode materials for lithium/sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 4242-4251.	10.3	134
75	Monolithic MAPbI₃ films for high-efficiency solar cells via coordination and a heat assisted process. Journal of Materials Chemistry A, 2017, 5, 21313-21319.	10.3	132
76	Template-free solvothermal synthesis of hollow hematite spheres and their applications in gas sensors and Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 6549.	6.7	130
77	A promising cathode for Li-ion batteries: Li3V2(PO4)3. Energy Storage Materials, 2016, 4, 15-58.	18.0	129
78	Enhanced ferroelectric properties and lowered processing temperatures of strontium bismuth niobates with vanadium doping. Applied Physics Letters, 1999, 75, 2650-2652.	3.3	128
79	Hierarchical mesoporous MoSe2@CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. Energy Storage Materials, 2019, 21, 97-106.	18.0	128
80	Hydrous Manganese Dioxide Nanowall Arrays Growth and Their Li⁺ Ions Intercalation Electrochemical Properties. Chemistry of Materials, 2008, 20, 1376-1380.	6.7	127
81	A highly efficient (>6%) Cd_{1âˆ’x}Mn_xSe quantum dot sensitized solar cell. Journal of Materials Chemistry A, 2014, 2, 19653-19659.	10.3	126
82	Composite Gel Polymer Electrolyte Based on Poly(vinylidene fluoride-hexafluoropropylene) (PVDF-HFP) with Modified Aluminum-Doped Lithium Lanthanum Titanate (A-LLTO) for High-Performance Lithium Rechargeable Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20710-20719.	8.0	125
83	Design of coherent anode materials with 0D Ni₃S₂nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. Journal of Materials Chemistry A, 2017, 5, 7394-7402.	10.3	125
84	ZnO/TiO₂nanocable structured photoelectrodes for CdS/CdSe quantum dot co-sensitized solar cells. Nanoscale, 2013, 5, 936-943.	5.6	124
85	Controlled growth of textured perovskite films towards high performance solar cells. Nano Energy, 2016, 27, 17-26.	16.0	123
86	Hydrothermal Synthesis of Monoclinic VO₂ Micro- and Nanocrystals in One Step and Their Use in Fabricating Inverse Opals. Chemistry of Materials, 2010, 22, 3043-3050.	6.7	122
87	Energy storage through intercalation reactions: electrodes for rechargeable batteries. National Science Review, 2017, 4, 26-53.	9.5	122
88	Polyol-Mediated Solvothermal Synthesis and Electrochemical Performance of Nanostructured V₂O₅ Hollow Microspheres. Journal of Physical Chemistry C, 2013, 117, 1621-1626.	3.1	121
89	Flexible CoOâ€“grapheneâ€“carbon nanofiber mats as binder-free anodes for lithium-ion batteries with superior rate capacity and cyclic stability. Journal of Materials Chemistry A, 2014, 2, 5890-5897.	10.3	121
90	Mesocrystals as electrode materials for lithium-ion batteries. Nano Today, 2014, 9, 499-524.	11.9	120

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91	ZnO nanoparticles and nanowire array hybrid photoanodes for dye-sensitized solar cells. Applied Physics Letters, 2010, 96, 073115.	3.3	119
92	Potassium Ammonium Vanadate with Rich Oxygen Vacancies for Fast and Highly Stable Zn-Ion Storage. ACS Nano, 2022, 16, 4588-4598.	14.6	118
93	Phosphorized SnO₂/graphene heterostructures for highly reversible lithium-ion storage with enhanced pseudocapacitance. Journal of Materials Chemistry A, 2018, 6, 3479-3487.	10.3	117
94	Reversible and fast Na-ion storage in MoO2/MoSe2 heterostructures for high energy-high power Na-ion capacitors. Energy Storage Materials, 2018, 12, 241-251.	18.0	117
95	V2O5 xerogel electrodes with much enhanced lithium-ion intercalation properties with N2 annealing. Journal of Materials Chemistry, 2009, 19, 8789.	6.7	116
96	Generation of hydrogen from aluminum and water â€“ Effect of metal oxide nanocrystals and water quality. International Journal of Hydrogen Energy, 2011, 36, 15136-15144.	7.1	116
97	Architectured ZnO photoelectrode for high efficiency quantum dot sensitized solar cells. Energy and Environmental Science, 2013, 6, 3542.	30.8	116
98	Layered ternary metal oxides: Performance degradation mechanisms as cathodes, and design strategies for high-performance batteries. Progress in Materials Science, 2020, 111, 100655.	32.8	115
99	Grapheneâ€Encapsulated FeS₂ in Carbon Fibers as High Reversible Anodes for Na⁺/K⁺ Batteries in a Wide Temperature Range. Small, 2019, 15, e1804740.	10.0	115
100	Niâ^'V2O5Â·nH2O Coreâ^'Shell Nanocable Arrays for Enhanced Electrochemical Intercalation. Journal of Physical Chemistry B, 2005, 109, 48-51.	2.6	113
101	Titanium alkoxide induced BiOBrâ€“Bi2WO6 mesoporous nanosheet composites with much enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 7949.	10.3	113
102	Chemical Synthesis of 3D Grapheneâ€Like Cages for Sodiumâ€Ion Batteries Applications. Advanced Energy Materials, 2017, 7, 1700797.	19.5	113
103	Nanosheet-structured LiV3O8 with high capacity and excellent stability for high energy lithium batteries. Journal of Materials Chemistry, 2011, 21, 10077.	6.7	112
104	Doubling the power conversion efficiency in CdS/CdSe quantum dot sensitized solar cells with a ZnSe passivation layer. Nano Energy, 2016, 26, 114-122.	16.0	112
105	Sulfur-deficient MoS₂ grown inside hollow mesoporous carbon as a functional polysulfide mediator. Journal of Materials Chemistry A, 2019, 7, 12068-12074.	10.3	112
106	Enhanced Reversible Zinc Ion Intercalation in Deficient Ammonium Vanadate for High-Performance Aqueous Zinc-Ion Battery. Nano-Micro Letters, 2021, 13, 116.	27.0	111
107	Growth and electrochromic properties of single-crystal V2O5 nanorod arrays. Applied Physics Letters, 2005, 86, 053102.	3.3	109
108	Advanced Energyâ€Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. Advanced Energy Materials, 2013, 3, 1484-1489.	19.5	109

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109	Semiconductor quantum dot-sensitized solar cells. Nano Reviews, 2013, 4, 22578.	3.7	109
110	Oxygen-deficient titanium dioxide as a functional host for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 10346-10353.	10.3	109
111	Inkjet-Printed Zinc Tin Oxide Thin-Film Transistor. Langmuir, 2009, 25, 11149-11154.	3.5	108
112	Bandgap-Graded Cu₂Zn(Sn_{1â€“x}Ge_x)S₄ Thin-Film Solar Cells Derived from Metal Chalcogenide Complex Ligand Capped Nanocrystals. Chemistry of Materials, 2014, 26, 3957-3965.	6.7	108
113	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. Nano Research, 2018, 11, 449-463.	10.4	108
114	Self-templated synthesis of N-doped CoSe2/C double-shelled dodecahedra for high-performance supercapacitors. Energy Storage Materials, 2017, 8, 28-34.	18.0	107
115	Template free synthesis of LiV₃O₈nanorods as a cathode material for high-rate secondary lithium batteries. Journal of Materials Chemistry, 2011, 21, 1153-1161.	6.7	105
116	TiO2 nanotube arrays annealed in CO exhibiting high performance for lithium ion intercalation. Electrochimica Acta, 2009, 54, 6816-6820.	5.2	102
117	Mesoporous TiO2 beads for high efficiency CdS/CdSe quantum dot co-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 2517.	10.3	102
118	Control of Nanostructures and Interfaces of Metal Oxide Semiconductors for Quantum-Dots-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1859-1869.	4.6	102
119	Effects of Thermal Annealing on the Li+Intercalation Properties of V2O5Â·nH2O Xerogel Films. Journal of Physical Chemistry B, 2005, 109, 11361-11366.	2.6	101
120	Carbon monoxide annealed TiO₂nanotube array electrodes for efficient biosensor applications. Journal of Materials Chemistry, 2009, 19, 948-953.	6.7	101
121	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. Energy Storage Materials, 2019, 18, 366-374.	18.0	101
122	High-rate cathodes based on Li3V2(PO4)3 nanobelts prepared via surfactant-assisted fabrication. Journal of Power Sources, 2011, 196, 3646-3649.	7.8	100
123	Cryptomelane-type MnO2/carbon nanotube hybrids as bifunctional electrode material for high capacity potassium-ion full batteries. Nano Energy, 2018, 54, 106-115.	16.0	98
124	Self-assembled nanoporous rutile TiO2 mesocrystals with tunable morphologies for high rate lithium-ion batteries. Nano Energy, 2012, 1, 466-471.	16.0	97
125	Graphene oxide oxidizes stannous ions to synthesize tin sulfideâ€“graphene nanocomposites with small crystal size for high performance lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 23091.	6.7	97
126	Mechanism of cycling degradation and strategy to stabilize a nickel-rich cathode. Journal of Materials Chemistry A, 2018, 6, 16149-16163.	10.3	97

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127	Enhanced Lithium-Ion Intercalation Properties of V₂O₅ Xerogel Electrodes with Surface Defects. Journal of Physical Chemistry C, 2011, 115, 4959-4965.	3.1	96
128	Enhanced storage of sodium ions in Prussian blue cathode material through nickel doping. Journal of Materials Chemistry A, 2017, 5, 9604-9610.	10.3	95
129	Kinetic surface control for improved magnesium-electrolyte interfaces for magnesium ion batteries. Energy Storage Materials, 2019, 22, 96-104.	18.0	95
130	Effects of Iodine Content in the Electrolyte on the Charge Transfer and Power Conversion Efficiency of Dye-Sensitized Solar Cells under Low Light Intensities. Journal of Physical Chemistry C, 2012, 116, 25727-25733.	3.1	93
131	Transparent and Flexible Self-Charging Power Film and Its Application in a Sliding Unlock System in Touchpad Technology. ACS Nano, 2016, 10, 8078-8086.	14.6	93
132	Effect of Al(OH)3 on the hydrogen generation of aluminumâ€“water system. Journal of Power Sources, 2012, 219, 16-21.	7.8	92
133	Oxygen vacancy-enriched MoO_{3â^'x} nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. Journal of Materials Chemistry A, 2019, 7, 13205-13214.	10.3	92
134	Oxygen-vacancy-related dielectric relaxation in SrBi2Ta1.8V0.2O9 ferroelectrics. Journal of Applied Physics, 2001, 89, 5647-5652.	2.5	91
135	Charge Transport Properties in TiO₂ Network with Different Particle Sizes for Dye Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 1044-1052.	8.0	91
136	Sulfur-rich carbon cryogels for supercapacitors with improved conductivity and wettability. Journal of Materials Chemistry A, 2014, 2, 8472.	10.3	91
137	Three dimensional architecture of carbon wrapped multilayer Na₃V₂O₂(PO₄)₂F nanocubes embedded in graphene for improved sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17563-17568.	10.3	91
138	Rational design of multi-shelled CoO/Co₉S₈ hollow microspheres for high-performance hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 18448-18456.	10.3	91
139	Heterogeneous NiS/NiO multi-shelled hollow microspheres with enhanced electrochemical performances for hybrid-type asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9153-9160.	10.3	90
140	Inverse Capacity Growth and Pocket Effect in SnS₂ Semifilled Carbon Nanotube Anode. ACS Nano, 2018, 12, 8037-8047.	14.6	90
141	A Confined Replacement Synthesis of Bismuth Nanodots in MOF Derived Carbon Arrays as Binderâ€Free Anodes for Sodiumâ€Ion Batteries. Advanced Science, 2019, 6, 1900162.	11.2	90
142	Constructing water-resistant CH₃NH₃PbI₃perovskite films via coordination interaction. Journal of Materials Chemistry A, 2016, 4, 17018-17024.	10.3	89
143	N-doped one-dimensional carbonaceous backbones supported MoSe2 nanosheets as superior electrodes for energy storage and conversion. Chemical Engineering Journal, 2018, 334, 2190-2200.	12.7	88
144	Chemically Bonding NiFe-LDH Nanosheets on rGO for Superior Lithium-Ion Capacitors. ACS Applied Materials & Interfaces, 2019, 11, 35977-35986.	8.0	88

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145	Amorphous silica molecular sieving membranes by sol-gel processing. Advanced Materials, 1996, 8, 588-591.	21.0	87
146	Effect of Annealing Temperature on TiO₂â˜'ZnO Coreâ˜'Shell Aggregate Photoelectrodes of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 4927-4934.	3.1	87
147	Colloidal engineering for monolayer CH₃NH₃PbI₃ films toward high performance perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 24168-24177.	10.3	87
148	TiO2Nanotube Arrays Annealed in N2for Efficient Lithium-Ion Intercalation. Journal of Physical Chemistry C, 2008, 112, 11175-11180.	3.1	86
149	Yolk-shell structured V2O3 microspheres wrapped in N, S co-doped carbon as pea-pod nanofibers for high-capacity lithium ion batteries. Chemical Engineering Journal, 2019, 374, 545-553.	12.7	86
150	Tailoring nanostructured transition metal phosphides for high-performance hybrid supercapacitors. Nano Today, 2021, 38, 101201.	11.9	86
151	Sodium vanadate/PEDOT nanocables rich with oxygen vacancies for high energy conversion efficiency zinc ion batteries. Energy Storage Materials, 2021, 40, 209-218.	18.0	86
152	Hierarchically Structured ZnO Nanorodsâ€"Nanosheets for Improved Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 4466-4472.	8.0	85
153	High Efficiency CdS/CdSe Quantum Dot Sensitized Solar Cells with Two ZnSe Layers. ACS Applied Materials & Interfaces, 2016, 8, 34482-34489.	8.0	85
154	MnO nanoparticles with cationic vacancies and discrepant crystallinity dispersed into porous carbon for Li-ion capacitors. Journal of Materials Chemistry A, 2016, 4, 3362-3370.	10.3	85
155	Three-Dimensional Coherent Titaniaâ€"Mesoporous Carbon Nanocomposite and Its Lithium-Ion Storage Properties. ACS Applied Materials & Interfaces, 2012, 4, 2985-2992.	8.0	84
156	Catalyzing zinc-ion intercalation in hydrated vanadates for aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7713-7723.	10.3	84
157	Effects of Lithium Ions on Dye-Sensitized ZnO Aggregate Solar Cells. Chemistry of Materials, 2010, 22, 2427-2433.	6.7	83
158	Recent Progress in Dyeâ€Sensitized Solar Cells Using Nanocrystallite Aggregates. Advanced Energy Materials, 2011, 1, 988-1001.	19.5	83
159	Freestanding flexible graphene foams@polypyrrole@MnO₂ electrodes for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9196-9203.	10.3	83
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