Xihong Lu

List of Publications by Year
in descending order

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		1606	2812
352	40,534	105	191
papers	citations	h-index	g-index

365	365	365	29801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrogenated TiO₂ Nanotube Arrays for Supercapacitors. Nano Letters, 2012, 12, 1690-1696.	4.5	1,226
2	Flexible solid-state supercapacitors: design, fabrication and applications. Energy and Environmental Science, 2014, 7, 2160.	15.6	1,156
3	Flexible Energyâ€Storage Devices: Design Consideration and Recent Progress. Advanced Materials, 2014, 26, 4763-4782.	11.1	1,153
4	Flexible Solid-State Supercapacitors Based on Carbon Nanoparticles/MnO₂ Nanorods Hybrid Structure. ACS Nano, 2012, 6, 656-661.	7.3	961
5	Hâ€TiO₂@MnO₂//Hâ€TiO₂@C Coreâ€“Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors. Advanced Materials, 2013, 25, 267-272.	11.1	894
6	Oxygenâ€Deficient Hematite Nanorods as Highâ€Performance and Novel Negative Electrodes for Flexible Asymmetric Supercapacitors. Advanced Materials, 2014, 26, 3148-3155.	11.1	838
7	Au Nanostructure-Decorated TiO₂ Nanowires Exhibiting Photoactivity Across Entire UV-visible Region for Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 3817-3823.	4.5	812
8	Dendriteâ€Free Zinc Deposition Induced by Multifunctional CNT Frameworks for Stable Flexible Znâ€Ion Batteries. Advanced Materials, 2019, 31, e1903675.	11.1	780
9	High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. Nano Letters, 2013, 13, 2628-2633.	4.5	691
10	Polyaniline and Polypyrrole Pseudocapacitor Electrodes with Excellent Cycling Stability. Nano Letters, 2014, 14, 2522-2527.	4.5	688
11	Solidâ€State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. Advanced Materials, 2014, 26, 2676-2682.	11.1	660
12	WO_{3â€“x}@Au@MnO₂ Coreâ€“Shell Nanowires on Carbon Fabric for Highâ€Performance Flexible Supercapacitors. Advanced Materials, 2012, 24, 938-944.	11.1	641
13	Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors. Nano Letters, 2012, 12, 5376-5381.	4.5	627
14	Achieving Ultrahigh Energy Density and Long Durability in a Flexible Rechargeable Quasiâ€Solidâ€State Znâ€“MnO₂ Battery. Advanced Materials, 2017, 29, 1700274.	11.1	572
15	Oxygenâ€Vacancy and Surface Modulation of Ultrathin Nickel Cobaltite Nanosheets as a Highâ€Energy Cathode for Advanced Znâ€Ion Batteries. Advanced Materials, 2018, 30, e1802396.	11.1	495
16	Facile synthesis of large-area manganese oxide nanorod arrays as a high-performance electrochemical supercapacitor. Energy and Environmental Science, 2011, 4, 2915.	15.6	479
17	Nitrogenâ€Doped Co₃O₄ Mesoporous Nanowire Arrays as an Additiveâ€Free Airâ€Cathode for Flexible Solidâ€State Zincâ€“Air Batteries. Advanced Materials, 2017, 29, 1602868.	11.1	428
18	Oxygen vacancies promoting photoelectrochemical performance of In2O3 nanocubes. Scientific Reports, 2013, 3, 1021.	1.6	427

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19	Advanced Tiâ€Doped Fe₂O₃@PEDOT Core/Shell Anode for Highâ€Energy Asymmetric Supercapacitors. Advanced Energy Materials, 2015, 5, 1402176.	10.2	416
20	Flexible Znâ€Ion Batteries: Recent Progresses and Challenges. Small, 2019, 15, e1804760.	5.2	412
21	Directional Construction of Vertical Nitrogenâ€Doped 1Tâ€2H MoSe₂/Graphene Shell/Core Nanoflake Arrays for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2017, 29, 1700748.	11.1	404
22	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. Journal of Materials Chemistry A, 2015, 3, 1364-1387.	5.2	396
23	A Novel Exfoliation Strategy to Significantly Boost the Energy Storage Capability of Commercial Carbon Cloth. Advanced Materials, 2015, 27, 3572-3578.	11.1	384
24	Oxygen vacancies enhancing capacitive properties of MnO2 nanorods for wearable asymmetric supercapacitors. Nano Energy, 2014, 8, 255-263.	8.2	381
25	Oxygen Vacancy Induced Bismuth Oxyiodide with Remarkably Increased Visible-Light Absorption and Superior Photocatalytic Performance. ACS Applied Materials & Interfaces, 2014, 6, 22920-22927.	4.0	370
26	Ironâ€Based Supercapacitor Electrodes: Advances and Challenges. Advanced Energy Materials, 2016, 6, 1601053.	10.2	358
27	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. Advanced Materials, 2019, 31, e1900341.	11.1	320
28	An Ultrastable and Highâ€Performance Flexible Fiberâ€Shaped Niâ€“Zn Battery based on a Niâ€“NiO Heterostructured Nanosheet Cathode. Advanced Materials, 2017, 29, 1702698.	11.1	314
29	LiCl/PVA Gel Electrolyte Stabilizes Vanadium Oxide Nanowire Electrodes for Pseudocapacitors. ACS Nano, 2012, 6, 10296-10302.	7.3	310
30	A New Benchmark Capacitance for Supercapacitor Anodes by Mixedâ€Valence Sulfurâ€Doped V₆O_{13â^'x}. Advanced Materials, 2014, 26, 5869-5875.	11.1	305
31	Boosting Znâ€Ion Energy Storage Capability of Hierarchically Porous Carbon by Promoting Chemical Adsorption. Advanced Materials, 2019, 31, e1904948.	11.1	304
32	Boosting the Energy Density of Carbonâ€Based Aqueous Supercapacitors by Optimizing the Surface Charge. Angewandte Chemie - International Edition, 2017, 56, 5454-5459.	7.2	292
33	Scalable self-growth of Ni@NiO core-shell electrode with ultrahigh capacitance and super-long cyclic stability for supercapacitors. NPG Asia Materials, 2014, 6, e129-e129.	3.8	284
34	Hierarchical Porous Ni₃S₄ with Enriched Highâ€Valence Ni Sites as a Robust Electrocatalyst for Efficient Oxygen Evolution Reaction. Advanced Functional Materials, 2019, 29, 1900315.	7.8	281
35	High-performance flexible quasi-solid-state Znâ€“MnO₂ battery based on MnO₂ nanorod arrays coated 3D porous nitrogen-doped carbon cloth. Journal of Materials Chemistry A, 2017, 5, 14838-14846.	5.2	273
36	High power density microbial fuel cell with flexible 3D grapheneâ€“nickel foam as anode. Nanoscale, 2013, 5, 10283.	2.8	265

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37	Metalâ€“Organicâ€Frameworkâ€Derived Dual Metalâ€•and Nitrogenâ€Doped Carbon as Efficient and Robust Oxygen Reduction Reaction Catalysts for Microbial Fuel Cells. Advanced Science, 2016, 3, 1500265.	5.6	262
38	3D MnO2â€“graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. Nanoscale, 2013, 5, 6790.	2.8	258
39	Efficient photocatalytic hydrogen evolution over hydrogenated ZnO nanorod arrays. Chemical Communications, 2012, 48, 7717-7719.	2.2	253
40	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. Nanoscale, 2013, 5, 7984.	2.8	253
41	Crâ€Doped FeNiâ€“P Nanoparticles Encapsulated into Nâ€Doped Carbon Nanotube as a Robust Bifunctional Catalyst for Efficient Overall Water Splitting. Advanced Materials, 2019, 31, e1900178.	11.1	246
42	Lignocellulose-derived porous phosphorus-doped carbon as advanced electrode for supercapacitors. Journal of Power Sources, 2017, 351, 130-137.	4.0	244
43	Phase Modulation of (1Tâ€2H)â€MoSe2/TiCâ€C Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, e1802223.	11.1	244
44	A High-Rate Two-Dimensional Polyarylimide Covalent Organic Framework Anode for Aqueous Zn-Ion Energy Storage Devices. Journal of the American Chemical Society, 2020, 142, 19570-19578.	6.6	232
45	Dualâ€Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiberâ€Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 6762-6766.	7.2	230
46	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. Nanoscale, 2012, 4, 3123.	2.8	228
47	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. Journal of Physical Chemistry C, 2013, 117, 10957-10964.	1.5	222
48	Extracting oxygen anions from ZnMn2O4: Robust cathode for flexible all-solid-state Zn-ion batteries. Energy Storage Materials, 2019, 21, 154-161.	9.5	221
49	Flexible Ultrafast Aqueous Rechargeable Ni//Bi Battery Based on Highly Durable Singleâ€Crystalline Bismuth Nanostructured Anode. Advanced Materials, 2016, 28, 9188-9195.	11.1	220
50	Improving the Cycling Stability of Metalâ€“Nitride Supercapacitor Electrodes with a Thin Carbon Shell. Advanced Energy Materials, 2014, 4, 1300994.	10.2	217
51	Photoelectrochemical hydrogen production from biomass derivatives and water. Chemical Society Reviews, 2014, 43, 7581-7593.	18.7	216
52	New Insights into the Operating Voltage of Aqueous Supercapacitors. Chemistry - A European Journal, 2018, 24, 3639-3649.	1.7	211
53	Controllable synthesis of porous nickelâ€“cobalt oxide nanosheets for supercapacitors. Journal of Materials Chemistry, 2012, 22, 13357.	6.7	207
54	Valenceâ€Optimized Vanadium Oxide Supercapacitor Electrodes Exhibit Ultrahigh Capacitance and Superâ€Long Cyclic Durability of 100 000 Cycles. Advanced Functional Materials, 2015, 25, 3534-3540.	7.8	200

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55	Zeolitic Imidazolate Frameworks as Zn²⁺ Modulation Layers to Enable Dendriteâ€Free Zn Anodes. Advanced Science, 2020, 7, 2002173.	5.6	199
56	TiO₂@C coreâ€“shell nanowires for high-performance and flexible solid-state supercapacitors. Journal of Materials Chemistry C, 2013, 1, 225-229.	2.7	192
57	3Dâ€Printed Structure Boosts the Kinetics and Intrinsic Capacitance of Pseudocapacitive Graphene Aerogels. Advanced Materials, 2020, 32, e1906652.	11.1	191
58	Hollow TiO₂@Co₉S₈ Coreâ€“Branch Arrays as Bifunctional Electrocatalysts for Efficient Oxygen/Hydrogen Production. Advanced Science, 2018, 5, 1700772.	5.6	189
59	Binder-free Fe2N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. Nano Energy, 2015, 11, 348-355.	8.2	180
60	Photocatalytic conversion of lignocellulosic biomass to valuable products. Green Chemistry, 2019, 21, 4266-4289.	4.6	180
61	Î³-MnO2 nanorods/graphene composite as efficient cathode for advanced rechargeable aqueous zinc-ion battery. Journal of Energy Chemistry, 2020, 43, 182-187.	7.1	180
62	Holey Tungsten Oxynitride Nanowires: Novel Anodes Efficiently Integrate Microbial Chemical Energy Conversion and Electrochemical Energy Storage. Advanced Materials, 2015, 27, 3085-3091.	11.1	177
63	Towards highly efficient photoanodes: boosting sunlight-driven semiconductor nanomaterials for water oxidation. Nanoscale, 2014, 6, 7142.	2.8	173
64	Defect Promoted Capacity and Durability of Nâ€MnO_{2â€“}_x Branch Arrays via Lowâ€Temperature NH₃ Treatment for Advanced Aqueous Zinc Ion Batteries. Small, 2019, 15, e1905452.	5.2	171
65	A mechanistic study into the catalytic effect of Ni(OH)2 on hematite for photoelectrochemical water oxidation. Nanoscale, 2013, 5, 4129.	2.8	169
66	Quantitative Detection of Photothermal and Photoelectrocatalytic Effects Induced by SPR from Au@Pt Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 11462-11466.	7.2	169
67	Electrochemical synthesis of hierarchical Cu2O stars with enhanced photoelectrochemical properties. Electrochimica Acta, 2012, 62, 1-7.	2.6	168
68	Engineering Thin MoS₂ Nanosheets on TiN Nanorods: Advanced Electrochemical Capacitor Electrode and Hydrogen Evolution Electrocatalyst. ACS Energy Letters, 2017, 2, 1862-1868.	8.8	167
69	Enhancing the Capacitive Storage Performance of Carbon Fiber Textile by Surface and Structural Modulation for Advanced Flexible Asymmetric Supercapacitors. Advanced Functional Materials, 2019, 29, 1806329.	7.8	167
70	Aromatic organic molecular crystal with enhanced Ï€â€“Ï€ stacking interaction for ultrafast Zn-ion storage. Energy and Environmental Science, 2020, 13, 2515-2523.	15.6	166
71	Stabilized Molybdenum Trioxide Nanowires as Novel Ultrahighâ€Capacity Cathode for Rechargeable Zinc Ion Battery. Advanced Science, 2019, 6, 1900151.	5.6	165
72	Solar driven hydrogen releasing from urea and human urine. Energy and Environmental Science, 2012, 5, 8215.	15.6	160

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73	Three-dimensional WO3 nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. Chemical Communications, 2011, 47, 5804.	2.2	158
74	Chemically modified nanostructures for photoelectrochemical water splitting. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 19, 35-51.	5.6	156
75	Cobalt-Embedded Nitrogen Doped Carbon Nanotubes: A Bifunctional Catalyst for Oxygen Electrode Reactions in a Wide pH Range. ACS Applied Materials & Interfaces, 2015, 7, 4048-4055.	4.0	156
76	Building Threeâ€Dimensional Graphene Frameworks for Energy Storage and Catalysis. Advanced Functional Materials, 2015, 25, 324-330.	7.8	156
77	Amorphous Cobalt Hydroxide with Superior Pseudocapacitive Performance. ACS Applied Materials & Interfaces, 2014, 6, 745-749.	4.0	155
78	Recent progress in the development of anodes for asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4634-4658.	5.2	154
79	Water Surface Assisted Synthesis of Largeâ€Scale Carbon Nanotube Film for Highâ€Performance and Stretchable Supercapacitors. Advanced Materials, 2014, 26, 4724-4729.	11.1	148
80	Iron-embedded nitrogen doped carbon frameworks as robust catalyst for oxygen reduction reaction in microbial fuel cells. Applied Catalysis B: Environmental, 2017, 202, 550-556.	10.8	148
81	Recent Smart Methods for Achieving Highâ€Energy Asymmetric Supercapacitors. Small Methods, 2018, 2, 1700230.	4.6	147
82	A Confinement Strategy for Stabilizing ZIFâ€Derived Bifunctional Catalysts as a Benchmark Cathode of Flexible Allâ€Solidâ€State Zincâ€“Air Batteries. Advanced Materials, 2018, 30, e1805268.	11.1	147
83	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10825-10829.	5.2	145
84	Recent progress and challenges of carbon materials for Znâ€ion hybrid supercapacitors. , 2020, 2, 521-539.		144
85	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling Highâ€Rate Longâ€Life Aqueous Zincâ€ion Battery. Advanced Functional Materials, 2019, 29, 1905267.	7.8	140
86	In Situ Activation of 3D Porous Bi/Carbon Architectures: Toward Highâ€Energy and Stable Nickelâ€“Bismuth Batteries. Advanced Materials, 2018, 30, e1707290.	11.1	139
87	Three dimensional architectures: design, assembly and application in electrochemical capacitors. Journal of Materials Chemistry A, 2015, 3, 15792-15823.	5.2	135
88	Oxygen Defects in Promoting the Electrochemical Performance of Metal Oxides for Supercapacitors: Recent Advances and Challenges. Small Methods, 2020, 4, 1900823.	4.6	129
89	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 372-378.	5.2	123
90	Nickel@Nickel Oxide Coreâ€“Shell Electrode with Significantly Boosted Reactivity for Ultrahighâ€Energy and Stable Aqueous Niâ€“Zn Battery. Advanced Functional Materials, 2018, 28, 1802157.	7.8	123

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91	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. Journal of Power Sources, 2013, 239, 64-71.	4.0	121
92	Redox cycles promoting photocatalytic hydrogen evolution of CeO2 nanorods. Journal of Materials Chemistry, 2011, 21, 5569.	6.7	120
93	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. Nano Letters, 2015, 15, 3189-3194.	4.5	118
94	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. Electrochimica Acta, 2019, 327, 134999.	2.6	116
95	Boosting the Zn-ion storage capability of birnessite manganese oxide nanoflorets by La³⁺ intercalation. Journal of Materials Chemistry A, 2019, 7, 22079-22083.	5.2	116
96	Titanium dioxide@polypyrrole coreâ€“shell nanowires for all solid-state flexible supercapacitors. Nanoscale, 2013, 5, 10806.	2.8	115
97	Vanadium Nitride Nanowire Supported SnS₂ Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23205-23215.	4.0	115
98	Nitrogen and Phosphorus Codoped Vertical Graphene/Carbon Cloth as a Binderâ€Free Anode for Flexible Advanced Potassium Ion Full Batteries. Small, 2019, 15, e1901285.	5.2	115
99	Titanium dioxide@titanium nitride nanowires on carbon cloth with remarkable rate capability for flexible lithium-ion batteries. Journal of Power Sources, 2014, 272, 946-953.	4.0	114
100	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2016, 4, 2849-2855.	5.2	114
101	The roles of defect states in photoelectric and photocatalytic processes for Zn_xCd_{1â^'x}S. Energy and Environmental Science, 2011, 4, 466-470.	15.6	112
102	Facile synthesis of free-standing CeO2 nanorods for photoelectrochemical applications. Chemical Communications, 2010, 46, 7721.	2.2	111
103	Improving the photoelectrochemical and photocatalytic performance of CdO nanorods with CdS decoration. CrystEngComm, 2013, 15, 4212.	1.3	110
104	Oxygen Defect Modulated Titanium Niobium Oxide on Graphene Arrays: An Openâ€Door for Highâ€Performance 1.4 V Symmetric Supercapacitor in Acidic Aqueous Electrolyte. Advanced Functional Materials, 2018, 28, 1805618.	7.8	110
105	An ultra-dense NiS₂/reduced graphene oxide composite cathode for high-volumetric/gravimetric energy density nickelâ€“zinc batteries. Journal of Materials Chemistry A, 2019, 7, 15654-15661.	5.2	108
106	Interlayer Engineering of Î±â€MoO₃ Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. Angewandte Chemie - International Edition, 2021, 60, 896-903.	7.2	108
107	Facile Electrochemical Synthesis of Single Crystalline CeO₂ Octahedrons and Their Optical Properties. Langmuir, 2010, 26, 7569-7573.	1.6	107
108	An ultrathin defect-rich Co₃O₄ nanosheet cathode for high-energy and durable aqueous zinc ion batteries. Journal of Materials Chemistry A, 2019, 7, 21678-21683.	5.2	106

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109	Vertical graphene/Ti2Nb10O29/hydrogen molybdenum bronze composite arrays for enhanced lithium ion storage. Energy Storage Materials, 2018, 12, 137-144.	9.5	103
110	Sulphur-doped Co₃O₄ nanowires as an advanced negative electrode for high-energy asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 10779-10785.	5.2	101
111	Flexible rechargeable Ni//Zn battery based on self-supported NiCo2O4 nanosheets with high power density and good cycling stability. Green Energy and Environment, 2018, 3, 56-62.	4.7	100
112	Interlayer gap widened Î±-phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. Nature Communications, 2020, 11, 1348.	5.8	100
113	3D CNTs Networks Enable MnO₂ Cathodes with High Capacity and Superior Rate Capability for Flexible Rechargeable Znâ€“MnO₂ Batteries. Small Methods, 2019, 3, 1900525.	4.6	99
114	Printing Porous Carbon Aerogels for Low Temperature Supercapacitors. Nano Letters, 2021, 21, 3731-3737.	4.5	98
115	Activated carbon fiber paper with exceptional capacitive performance as a robust electrode for supercapacitors. Journal of Materials Chemistry A, 2016, 4, 5828-5833.	5.2	95
116	Bifunctional Ironâ€“Nickel Nitride Nanoparticles as Flexible and Robust Electrode for Overall Water Splitting. Electrochimica Acta, 2017, 247, 666-673.	2.6	92
117	Interlayer Engineering of Preintercalated Layered Oxides as Cathode for Emerging Multivalent Metal-ion Batteries: Zinc and Beyond. Energy Storage Materials, 2021, 38, 397-437.	9.5	90
118	A COFâ€Like Nâ€Rich Conjugated Microporous Polytriphenylamine Cathode with Pseudocapacitive Anion Storage Behavior for Highâ€Energy Aqueous Zinc Dualâ€Ion Batteries. Advanced Materials, 2021, 33, e2101857.	11.1	90
119	Facile and Efficient Electrochemical Synthesis of PbTe Dendritic Structures. Chemistry of Materials, 2008, 20, 3306-3314.	3.2	89
120	Binder-free WS₂ nanosheets with enhanced crystallinity as a stable negative electrode for flexible asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 21460-21466.	5.2	89
121	Tunable Wavelength Enhanced Photoelectrochemical Cells from Surface Plasmon Resonance. Journal of the American Chemical Society, 2016, 138, 16204-16207.	6.6	87
122	Porous CeO2 nanowires/nanowire arrays: electrochemical synthesis and application in water treatment. Journal of Materials Chemistry, 2010, 20, 7118.	6.7	86
123	Designing Carbon Based Supercapacitors with High Energy Density: A Summary of Recent Progress. Chemistry - A European Journal, 2018, 24, 7312-7329.	1.7	86
124	Enhanced photoactivity and stability of carbon and nitrogen co-treated ZnO nanorod arrays for photoelectrochemical water splitting. Journal of Materials Chemistry, 2012, 22, 14272.	6.7	85
125	Controllable Synthesis of Zn_xCd_{1â€“x}S@ZnO Coreâ€“Shell Nanorods with Enhanced Photocatalytic Activity. Langmuir, 2012, 28, 10558-10564.	1.6	83
126	Recent advances and challenges of stretchable supercapacitors based on carbon materials. Science China Materials, 2016, 59, 475-494.	3.5	83

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127	Controllable Electrochemical Synthesis of Ce⁴⁺-Doped ZnO Nanostructures from Nanotubes to Nanorods and Nanocages. Crystal Growth and Design, 2008, 8, 1276-1281.	1.4	82
128	MnO₂nanomaterials for flexible supercapacitors: performance enhancement via intrinsic and extrinsic modification. Nanoscale Horizons, 2016, 1, 109-124.	4.1	82
129	Ni₃S₂@PANI coreâ€“shell nanosheets as a durable and high-energy binder-free cathode for aqueous rechargeable nickelâ€“zinc batteries. Journal of Materials Chemistry A, 2019, 7, 10629-10635.	5.2	81
130	Carbon cloth as an advanced electrode material for supercapacitors: progress and challenges. Journal of Materials Chemistry A, 2020, 8, 17938-17950.	5.2	81
131	Challenges and Strategies for Constructing Highly Reversible Zinc Anodes in Aqueous Zincâ€Ion Batteries: Recent Progress and Future Perspectives. Advanced Sustainable Systems, 2020, 4, 2000082.	2.7	81
132	Monodisperse CeO2/CdS heterostructured spheres: one-pot synthesis and enhanced photocatalytic hydrogen activity. RSC Advances, 2011, 1, 1207.	1.7	80
133	Controllable Electrochemical Synthesis of Hierarchical ZnO Nanostructures on FTO Glass. Journal of Physical Chemistry C, 2009, 113, 13574-13582.	1.5	79
134	Fe₃O₄/reduced graphene oxide with enhanced electrochemical performance towards lithium storage. Journal of Materials Chemistry A, 2014, 2, 7214-7220.	5.2	79
135	Valence and surface modulated vanadium oxide nanowires as new high-energy and durable negative electrode for flexible asymmetric supercapacitors. Energy Storage Materials, 2019, 22, 410-417.	9.5	78
136	Co(II)_{1â€“x}Co(0)_{x/3}Mn(III)_{2x/3}S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13348-13359.	4.0	77
137	Chemically Lithiated TiO₂ Heterostructured Nanosheet Anode with Excellent Rate Capability and Long Cycle Life for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25991-26003.	4.0	76
138	Interfacial Engineering Coupled Valence Tuning of MoO₃ Cathode for Highâ€Capacity and Highâ€Rate Fiberâ€Shaped Zincâ€Ion Batteries. Small, 2020, 16, e1907458.	5.2	76
139	Mixedâ€Valence Copper Selenide as an Anode for Ultralong Lifespan Rockingâ€Chair Znâ€Ion Batteries: An Insight into its Intercalation/Extraction Kinetics and Charge Storage Mechanism. Advanced Functional Materials, 2021, 31, 2005092.	7.8	76
140	Controllable synthesis of hierarchical ZnO nanodisks for highly photocatalytic activity. CrystEngComm, 2012, 14, 1850.	1.3	75
141	Rational design of hybrid Co3O4/graphene films: Free-standing flexible electrodes for high performance supercapacitors. Electrochimica Acta, 2018, 259, 338-347.	2.6	75
142	Surface modulation of NiCo2O4 nanowire arrays with significantly enhanced reactivity for ultrahigh-energy supercapacitors. Chemical Engineering Journal, 2018, 352, 996-1003.	6.6	74
143	Heterostructured ZnO/SnO_{2â^'x} nanoparticles for efficient photocatalytic hydrogen production. Chemical Communications, 2014, 50, 4341-4343.	2.2	73
144	Hydrogen production from solar driven glucose oxidation over Ni(OH)2 functionalized electroreduced-TiO2 nanowire arrays. Green Chemistry, 2013, 15, 2434.	4.6	72

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145	NiO decorated Mo:BiVO4 photoanode with enhanced visible-light photoelectrochemical activity. International Journal of Hydrogen Energy, 2014, 39, 4820-4827.	3.8	72
146	Dualâ€Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiberâ€Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. Angewandte Chemie, 2016, 128, 6874-6878.	1.6	70
147	Binder-free NaTi2(PO4)3 anodes for high-performance coaxial-fiber aqueous rechargeable sodium-ion batteries. Nano Energy, 2020, 67, 104212.	8.2	70
148	A high-energy-density aqueous zincâ€“manganese battery with a Laâ€“Ca co-doped Îµ-MnO₂ cathode. Journal of Materials Chemistry A, 2020, 8, 11642-11648.	5.2	69
149	Electrochemical Self-Assembly of ZnO Nanoporous Structures. Journal of Physical Chemistry C, 2007, 111, 1919-1923.	1.5	68
150	Efficiently texturing hierarchical epoxy layer for smart superhydrophobic surfaces with excellent durability and exceptional stability exposed to fire. Chemical Engineering Journal, 2018, 348, 212-223.	6.6	68
151	Oxygen vacancy activated Bi2O3 nanoflowers as a high-performance anode for rechargeable alkaline battery. Journal of Power Sources, 2019, 433, 126684.	4.0	67
152	Boosting the Oxygen Evolution Reaction Activity of NiFe₂O₄ Nanosheets by Phosphate Ion Functionalization. ACS Omega, 2019, 4, 3493-3499.	1.6	66
153	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors. Nature Communications, 2022, 13, 547.	5.8	66
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