

Xihong Lu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

341
papers

31,382
citations

93
h-index

170
g-index

365
ext. papers

36,082
ext. citations

10.6
avg, IF

7.6
L-index

#	Paper	IF	Citations
341	Hydrogenated TiO ₂ nanotube arrays for supercapacitors. <i>Nano Letters</i> , 2012 , 12, 1690-6	11.5	1113
340	Flexible solid-state supercapacitors: design, fabrication and applications. <i>Energy and Environmental Science</i> , 2014 , 7, 2160	35.4	985
339	Flexible energy-storage devices: design consideration and recent progress. <i>Advanced Materials</i> , 2014 , 26, 4763-82	24	979
338	Flexible solid-state supercapacitors based on carbon nanoparticles/MnO ₂ nanorods hybrid structure. <i>ACS Nano</i> , 2012 , 6, 656-61	16.7	893
337	H-TiO(2) @MnO(2) //H-TiO(2) @C core-shell nanowires for high performance and flexible asymmetric supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 267-72	24	828
336	Au nanostructure-decorated TiO ₂ nanowires exhibiting photoactivity across entire UV-visible region for photoelectrochemical water splitting. <i>Nano Letters</i> , 2013 , 13, 3817-23	11.5	725
335	Oxygen-deficient hematite nanorods as high-performance and novel negative electrodes for flexible asymmetric supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 3148-55	24	705
334	High energy density asymmetric quasi-solid-state supercapacitor based on porous vanadium nitride nanowire anode. <i>Nano Letters</i> , 2013 , 13, 2628-33	11.5	622
333	WO ₃ @Au@MnO ₂ core-shell nanowires on carbon fabric for high-performance flexible supercapacitors. <i>Advanced Materials</i> , 2012 , 24, 938-44	24	592
332	Polyaniline and polypyrrole pseudocapacitor electrodes with excellent cycling stability. <i>Nano Letters</i> , 2014 , 14, 2522-7	11.5	589
331	Stabilized TiN nanowire arrays for high-performance and flexible supercapacitors. <i>Nano Letters</i> , 2012 , 12, 5376-81	11.5	563
330	Solid-state supercapacitor based on activated carbon cloths exhibits excellent rate capability. <i>Advanced Materials</i> , 2014 , 26, 2676-82, 2615	24	555
329	Achieving Ultrahigh Energy Density and Long Durability in a Flexible Rechargeable Quasi-Solid-State Zn-MnO Battery. <i>Advanced Materials</i> , 2017 , 29, 1700274	24	450
328	Facile synthesis of large-area manganese oxide nanorod arrays as a high-performance electrochemical supercapacitor. <i>Energy and Environmental Science</i> , 2011 , 4, 2915	35.4	434
327	Dendrite-Free Zinc Deposition Induced by Multifunctional CNT Frameworks for Stable Flexible Zn-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903675	24	419
326	Advanced Ti-Doped Fe ₂ O ₃ @PEDOT Core/Shell Anode for High-Energy Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1402176	21.8	367
325	Nitrogen-Doped Co O Mesoporous Nanowire Arrays as an Additive-Free Air-Cathode for Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1602868	24	353

324	Oxygen vacancies promoting photoelectrochemical performance of In ₂ O ₃ nanocubes. <i>Scientific Reports</i> , 2013 , 3, 1021	4.9	351
323	Oxygen-Vacancy and Surface Modulation of Ultrathin Nickel Cobaltite Nanosheets as a High-Energy Cathode for Advanced Zn-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1802396	24	335
322	A Novel Exfoliation Strategy to Significantly Boost the Energy Storage Capability of Commercial Carbon Cloth. <i>Advanced Materials</i> , 2015 , 27, 3572-8	24	332
321	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1364-1387	13	331
320	Directional Construction of Vertical Nitrogen-Doped 1T-2H MoSe ₂ /Graphene Shell/Core Nanoflake Arrays for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1700748	24	328
319	Oxygen vacancies enhancing capacitive properties of MnO ₂ nanorods for wearable asymmetric supercapacitors. <i>Nano Energy</i> , 2014 , 8, 255-263	17.1	323
318	Oxygen vacancy induced bismuth oxyiodide with remarkably increased visible-light absorption and superior photocatalytic performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22920-7	9.5	294
317	Flexible Zn-Ion Batteries: Recent Progresses and Challenges. <i>Small</i> , 2019 , 15, e1804760	11	277
316	A new benchmark capacitance for supercapacitor anodes by mixed-valence sulfur-doped V ₆ O _{13-x} . <i>Advanced Materials</i> , 2014 , 26, 5869-75	24	276
315	LiCl/PVA gel electrolyte stabilizes vanadium oxide nanowire electrodes for pseudocapacitors. <i>ACS Nano</i> , 2012 , 6, 10296-302	16.7	271
314	Iron-Based Supercapacitor Electrodes: Advances and Challenges. <i>Advanced Energy Materials</i> , 2016 , 6, 1601053	21.8	270
313	Scalable self-growth of Ni@NiO core-shell electrode with ultrahigh capacitance and super-long cyclic stability for supercapacitors. <i>NPG Asia Materials</i> , 2014 , 6, e129-e129	10.3	248
312	Boosting the Energy Density of Carbon-Based Aqueous Supercapacitors by Optimizing the Surface Charge. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5454-5459	16.4	234
311	3D MnO ₂ -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2013 , 5, 6790-6	7.7	234
310	High power density microbial fuel cell with flexible 3D graphene-nickel foam as anode. <i>Nanoscale</i> , 2013 , 5, 10283-90	7.7	233
309	An Ultrastable and High-Performance Flexible Fiber-Shaped Ni-Zn Battery based on a Ni-NiO Heterostructured Nanosheet Cathode. <i>Advanced Materials</i> , 2017 , 29, 1702698	24	231
308	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. <i>Nanoscale</i> , 2013 , 5, 7984-90	7.7	223
307	Efficient photocatalytic hydrogen evolution over hydrogenated ZnO nanorod arrays. <i>Chemical Communications</i> , 2012 , 48, 7717-9	5.8	221

306	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. <i>Nanoscale</i> , 2012 , 4, 3123-7	7.7	213
305	Metal-Organic-Framework-Derived Dual Metal- and Nitrogen-Doped Carbon as Efficient and Robust Oxygen Reduction Reaction Catalysts for Microbial Fuel Cells. <i>Advanced Science</i> , 2016 , 3, 1500265	13.6	209
304	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6762-6	16.4	203
303	High-performance flexible quasi-solid-state Zn/MnO ₂ battery based on MnO ₂ nanorod arrays coated 3D porous nitrogen-doped carbon cloth. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14838-14846	13	196
302	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. <i>Advanced Materials</i> , 2019 , 31, e1900341	24	191
301	Lignocellulose-derived porous phosphorus-doped carbon as advanced electrode for supercapacitors. <i>Journal of Power Sources</i> , 2017 , 351, 130-137	8.9	188
300	Improving the Cycling Stability of Metal Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <i>Advanced Energy Materials</i> , 2014 , 4, 1300994	21.8	188
299	Controllable synthesis of porous nickel/cobalt oxide nanosheets for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13357		188
298	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10957-10964	3.8	185
297	Phase Modulation of (1T-2H)-MoSe ₂ /TiC-C Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018 , 30, e1802223	24	183
296	Boosting Zn-Ion Energy Storage Capability of Hierarchically Porous Carbon by Promoting Chemical Adsorption. <i>Advanced Materials</i> , 2019 , 31, e1904948	24	181
295	Flexible Ultrafast Aqueous Rechargeable Ni//Bi Battery Based on Highly Durable Single-Crystalline Bismuth Nanostructured Anode. <i>Advanced Materials</i> , 2016 , 28, 9188-9195	24	178
294	TiO ₂ @C core-shell nanowires for high-performance and flexible solid-state supercapacitors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 225-229	7.1	176
293	Cr-Doped FeNi-P Nanoparticles Encapsulated into N-Doped Carbon Nanotube as a Robust Bifunctional Catalyst for Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2019 , 31, e1900178	24	172
292	Hierarchical Porous Ni ₃ S ₄ with Enriched High-Valence Ni Sites as a Robust Electrocatalyst for Efficient Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1900315	15.6	169
291	Photoelectrochemical hydrogen production from biomass derivatives and water. <i>Chemical Society Reviews</i> , 2014 , 43, 7581-93	58.5	167
290	Valence-Optimized Vanadium Oxide Supercapacitor Electrodes Exhibit Ultrahigh Capacitance and Super-Long Cyclic Durability of 100 000 Cycles. <i>Advanced Functional Materials</i> , 2015 , 25, 3534-3540	15.6	166
289	Extracting oxygen anions from ZnMn ₂ O ₄ : Robust cathode for flexible all-solid-state Zn-ion batteries. <i>Energy Storage Materials</i> , 2019 , 21, 154-161	19.4	159

288	Holey tungsten oxynitride nanowires: novel anodes efficiently integrate microbial chemical energy conversion and electrochemical energy storage. <i>Advanced Materials</i> , 2015 , 27, 3085-91	24	156
287	Binder-free Fe ₂ N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. <i>Nano Energy</i> , 2015 , 11, 348-355	17.1	156
286	New Insights into the Operating Voltage of Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 3639-3649	4.8	154
285	Towards highly efficient photoanodes: boosting sunlight-driven semiconductor nanomaterials for water oxidation. <i>Nanoscale</i> , 2014 , 6, 7142-64	7.7	150
284	Hollow TiO@CoS Core-Branch Arrays as Bifunctional Electrocatalysts for Efficient Oxygen/Hydrogen Production. <i>Advanced Science</i> , 2018 , 5, 1700772	13.6	145
283	A mechanistic study into the catalytic effect of Ni(OH) ₂ on hematite for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2013 , 5, 4129-33	7.7	145
282	Three-dimensional WO ₃ nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. <i>Chemical Communications</i> , 2011 , 47, 5804-6	5.8	143
281	Building Three-Dimensional Graphene Frameworks for Energy Storage and Catalysis. <i>Advanced Functional Materials</i> , 2015 , 25, 324-330	15.6	140
280	Cobalt-embedded nitrogen doped carbon nanotubes: a bifunctional catalyst for oxygen electrode reactions in a wide pH range. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4048-55	9.5	137
279	Amorphous cobalt hydroxide with superior pseudocapacitive performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 745-9	9.5	135
278	Electrochemical synthesis of hierarchical Cu ₂ O stars with enhanced photoelectrochemical properties. <i>Electrochimica Acta</i> , 2012 , 62, 1-7	6.7	135
277	Water surface assisted synthesis of large-scale carbon nanotube film for high-performance and stretchable supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 4724-9	24	134
276	Engineering Thin MoS ₂ Nanosheets on TiN Nanorods: Advanced Electrochemical Capacitor Electrode and Hydrogen Evolution Electrocatalyst. <i>ACS Energy Letters</i> , 2017 , 2, 1862-1868	20.1	134
275	Recent progress in the development of anodes for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4634-4658	13	132
274	Chemically modified nanostructures for photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014 , 19, 35-51	16.4	130
273	Quantitative Detection of Photothermal and Photoelectrocatalytic Effects Induced by SPR from Au@Pt Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11462-6	16.4	126
272	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15792-15823	13	125
271	Enhancing the Capacitive Storage Performance of Carbon Fiber Textile by Surface and Structural Modulation for Advanced Flexible Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1806329	15.6	125

270	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10825-10829	13	124
269	Iron-embedded nitrogen doped carbon frameworks as robust catalyst for oxygen reduction reaction in microbial fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 550-556	21.8	123
268	Recent Smart Methods for Achieving High-Energy Asymmetric Supercapacitors. <i>Small Methods</i> , 2018 , 2, 1700230	12.8	122
267	Solar driven hydrogen releasing from urea and human urine. <i>Energy and Environmental Science</i> , 2012 , 5, 8215	35.4	112
266	A Confinement Strategy for Stabilizing ZIF-Derived Bifunctional Catalysts as a Benchmark Cathode of Flexible All-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2018 , 30, e1805268	24	111
265	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2013 , 239, 64-71	8.9	110
264	Stabilized Molybdenum Trioxide Nanowires as Novel Ultrahigh-Capacity Cathode for Rechargeable Zinc Ion Battery. <i>Advanced Science</i> , 2019 , 6, 1900151	13.6	109
263	Titanium dioxide@polypyrrole core-shell nanowires for all solid-state flexible supercapacitors. <i>Nanoscale</i> , 2013 , 5, 10806-10	7.7	109
262	Redox cycles promoting photocatalytic hydrogen evolution of CeO ₂ nanorods. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5569		107
261	In Situ Activation of 3D Porous Bi/Carbon Architectures: Toward High-Energy and Stable Nickel-Bismuth Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707290	24	106
260	3D-Printed Structure Boosts the Kinetics and Intrinsic Capacitance of Pseudocapacitive Graphene Aerogels. <i>Advanced Materials</i> , 2020 , 32, e1906652	24	105
259	Defect Promoted Capacity and Durability of N-MnO Branch Arrays via Low-Temperature NH Treatment for Advanced Aqueous Zinc Ion Batteries. <i>Small</i> , 2019 , 15, e1905452	11	103
258	Titanium dioxide@titanium nitride nanowires on carbon cloth with remarkable rate capability for flexible lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 272, 946-953	8.9	103
257	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 372-378	13	102
256	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. <i>Nano Letters</i> , 2015 , 15, 3189-94	11.5	100
255	Facile electrochemical synthesis of single crystalline CeO ₂ octahedrons and their optical properties. <i>Langmuir</i> , 2010 , 26, 7569-73	4	100
254	Vanadium Nitride Nanowire Supported SnS ₂ Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23205-15	9.5	96
253	The roles of defect states in photoelectric and photocatalytic processes for ZnxCd _{1-x} S. <i>Energy and Environmental Science</i> , 2011 , 4, 466-470	35.4	96

252	EMnO ₂ nanorods/graphene composite as efficient cathode for advanced rechargeable aqueous zinc-ion battery. <i>Journal of Energy Chemistry</i> , 2020 , 43, 182-187	12	94
251	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling High-Rate Long-Life Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1905267	15.6	93
250	Photocatalytic conversion of lignocellulosic biomass to valuable products. <i>Green Chemistry</i> , 2019 , 21, 4266-4289	10	93
249	Facile synthesis of free-standing CeO ₂ nanorods for photoelectrochemical applications. <i>Chemical Communications</i> , 2010 , 46, 7721-3	5.8	93
248	Vertical graphene/Ti ₂ Nb ₁₀ O ₂₉ /hydrogen molybdenum bronze composite arrays for enhanced lithium ion storage. <i>Energy Storage Materials</i> , 2018 , 12, 137-144	19.4	93
247	Nickel@Nickel Oxide Core/Shell Electrode with Significantly Boosted Reactivity for Ultrahigh-Energy and Stable Aqueous Ni/Zn Battery. <i>Advanced Functional Materials</i> , 2018 , 28, 1802157	15.6	92
246	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2849-2855	13	88
245	Facile and Efficient Electrochemical Synthesis of PbTe Dendritic Structures. <i>Chemistry of Materials</i> , 2008 , 20, 3306-3314	9.6	86
244	Oxygen Defect Modulated Titanium Niobium Oxide on Graphene Arrays: An Open-Door for High-Performance 1.4 V Symmetric Supercapacitor in Acidic Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2018 , 28, 1805618	15.6	86
243	Improving the photoelectrochemical and photocatalytic performance of CdO nanorods with CdS decoration. <i>CrystEngComm</i> , 2013 , 15, 4212	3.3	85
242	Activated carbon fiber paper with exceptional capacitive performance as a robust electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5828-5833	13	83
241	Porous CeO ₂ nanowires/nanowire arrays: electrochemical synthesis and application in water treatment. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7118		82
240	Aromatic organic molecular crystal with enhanced π -stacking interaction for ultrafast Zn-ion storage. <i>Energy and Environmental Science</i> , 2020 , 13, 2515-2523	35.4	81
239	Designing Carbon Based Supercapacitors with High Energy Density: A Summary of Recent Progress. <i>Chemistry - A European Journal</i> , 2018 , 24, 7312-7329	4.8	81
238	A High-Rate Two-Dimensional Polyarylimide Covalent Organic Framework Anode for Aqueous Zn-Ion Energy Storage Devices. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19570-19578	16.4	79
237	Sulphur-doped Co ₃ O ₄ nanowires as an advanced negative electrode for high-energy asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10779-10785	13	78
236	Controllable synthesis of Zn _x Cd _{1-x} S@ZnO core-shell nanorods with enhanced photocatalytic activity. <i>Langmuir</i> , 2012 , 28, 10558-64	4	78
235	Zeolitic Imidazolate Frameworks as Zn Modulation Layers to Enable Dendrite-Free Zn Anodes. <i>Advanced Science</i> , 2020 , 7, 2002173	13.6	77

234	An ultra-dense NiS ₂ /reduced graphene oxide composite cathode for high-volumetric/gravimetric energy density nickel/zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15654-15661	13	76
233	Enhanced photoactivity and stability of carbon and nitrogen co-treated ZnO nanorod arrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14272		76
232	Flexible rechargeable Ni//Zn battery based on self-supported NiCo ₂ O ₄ nanosheets with high power density and good cycling stability. <i>Green Energy and Environment</i> , 2018 , 3, 56-62	5.7	75
231	Controllable Electrochemical Synthesis of Hierarchical ZnO Nanostructures on FTO Glass. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13574-13582	3.8	75
230	MnO nanomaterials for flexible supercapacitors: performance enhancement via intrinsic and extrinsic modification. <i>Nanoscale Horizons</i> , 2016 , 1, 109-124	10.8	74
229	Controllable Electrochemical Synthesis of Ce ⁴⁺ -Doped ZnO Nanostructures from Nanotubes to Nanorods and Nanocages. <i>Crystal Growth and Design</i> , 2008 , 8, 1276-1281	3.5	74
228	Monodisperse CeO ₂ /CdS heterostructured spheres: one-pot synthesis and enhanced photocatalytic hydrogen activity. <i>RSC Advances</i> , 2011 , 1, 1207	3.7	73
227	Fe ₃ O ₄ /reduced graphene oxide with enhanced electrochemical performance towards lithium storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7214-7220	13	70
226	Nitrogen and Phosphorus Codoped Vertical Graphene/Carbon Cloth as a Binder-Free Anode for Flexible Advanced Potassium Ion Full Batteries. <i>Small</i> , 2019 , 15, e1901285	11	69
225	Hydrogen production from solar driven glucose oxidation over Ni(OH) ₂ functionalized electroreduced-TiO ₂ nanowire arrays. <i>Green Chemistry</i> , 2013 , 15, 2434	10	68
224	Chemically Lithiated TiO ₂ Heterostructured Nanosheet Anode with Excellent Rate Capability and Long Cycle Life for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25991-6003	9.5	67
223	Controllable synthesis of hierarchical ZnO nanodisks for highly photocatalytic activity. <i>CrystEngComm</i> , 2012 , 14, 1850	3.3	66
222	Electrochemical Self-Assembly of ZnO Nanoporous Structures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1919-1923	3.8	66
221	Boosting the Zn-ion storage capability of birnessite manganese oxide nanoflorets by La ³⁺ intercalation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22079-22083	13	65
220	Bifunctional Iron/Nickel Nitride Nanoparticles as Flexible and Robust Electrode for Overall Water Splitting. <i>Electrochimica Acta</i> , 2017 , 247, 666-673	6.7	65
219	Co(II) _{1-x} Co(0) _x /3Mn(III) _{2x} /3S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13348-59	9.5	65
218	Rational design of hybrid Co ₃ O ₄ /graphene films: Free-standing flexible electrodes for high performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 259, 338-347	6.7	64
217	Recent advances and challenges of stretchable supercapacitors based on carbon materials. <i>Science China Materials</i> , 2016 , 59, 475-494	7.1	64

216	3D CNTs Networks Enable MnO ₂ Cathodes with High Capacity and Superior Rate Capability for Flexible Rechargeable Zn/MnO ₂ Batteries. <i>Small Methods</i> , 2019 , 3, 1900525	12.8	64
215	Ni ₃ S ₂ @PANI core-shell nanosheets as a durable and high-energy binder-free cathode for aqueous rechargeable nickel-zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10629-10635	13	63
214	Electrochemical Growth and Control of ZnO Dendritic Structures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6678-6683	3.8	63
213	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie</i> , 2016 , 128, 6874-6878	3.6	63
212	An ultrathin defect-rich Co ₃ O ₄ nanosheet cathode for high-energy and durable aqueous zinc ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21678-21683	13	62
211	Heterostructured ZnO/SnO _(2-x) nanoparticles for efficient photocatalytic hydrogen production. <i>Chemical Communications</i> , 2014 , 50, 4341-3	5.8	62
210	Tunable Wavelength Enhanced Photoelectrochemical Cells from Surface Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16204-16207	16.4	62
209	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. <i>Electrochimica Acta</i> , 2019 , 327, 134999	6.7	61
208	Oxygen Defects in Promoting the Electrochemical Performance of Metal Oxides for Supercapacitors: Recent Advances and Challenges. <i>Small Methods</i> , 2020 , 4, 1900823	12.8	59
207	NiO decorated Mo:BiVO ₄ photoanode with enhanced visible-light photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4820-4827	6.7	59
206	Recent progress and challenges of carbon materials for Zn-ion hybrid supercapacitors 2020 , 2, 521-539		59
205	Binder-free WS ₂ nanosheets with enhanced crystallinity as a stable negative electrode for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21460-21466	13	58
204	Facile Synthesis of Hierarchical ZnO:Tb ³⁺ Nanorod Bundles and Their Optical and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2927-2933	3.8	57
203	Interlayer gap widened α -phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. <i>Nature Communications</i> , 2020 , 11, 1348	17.4	55
202	CdS/CeO _x heterostructured nanowires for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4190	13	55
201	Surface engineering of carbon fiber paper for efficient capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18639-18645	13	54
200	Facile synthesis of large-area CeO ₂ /ZnO nanotube arrays for enhanced photocatalytic hydrogen evolution. <i>Journal of Power Sources</i> , 2014 , 247, 545-550	8.9	54
199	Vertically aligned In ₂ O ₃ nanorods on FTO substrates for photoelectrochemical applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14685		54

198	Facile electrochemical synthesis of CeO ₂ hierarchical nanorods and nanowires with excellent photocatalytic activities. <i>New Journal of Chemistry</i> , 2014 , 38, 2581-2586	3.6	53
197	Hierarchical CeO ₂ nanospheres as highly-efficient adsorbents for dye removal. <i>New Journal of Chemistry</i> , 2013 , 37, 585	3.6	53
196	Surface modulation of NiCo ₂ O ₄ nanowire arrays with significantly enhanced reactivity for ultrahigh-energy supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 352, 996-1003	14.7	52
195	Room-temperature ferromagnetism in hierarchically branched MoO ₃ nanostructures. <i>CrystEngComm</i> , 2012 , 14, 1419-1424	3.3	52
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