

Hong Jin Fan

List of Publications by Year in descending order

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279
papers

42,816
citations

1994

101
h-index

2243

201
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288
all docs

288
docs citations

288
times ranked

37265
citing authors

#	ARTICLE	IF	CITATIONS
1	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. Science, 2014, 345, 1593-1596.	12.6	2,260
2	Recent Advances in Zn ²⁺ /K ⁺ Batteries. Advanced Functional Materials, 2018, 28, 1802564.	14.9	1,595
3	Co ₃ O ₄ Nanowire@MnO ₂ Ultrathin Nanosheet Core/Shell Arrays: A New Class of High-Performance Pseudocapacitive Materials. Advanced Materials, 2011, 23, 2076-2081.	21.0	1,250
4	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. Nature Communications, 2016, 7, 12122.	12.8	1,232
5	Transition Metal Carbides and Nitrides in Energy Storage and Conversion. Advanced Science, 2016, 3, 1500286.	11.2	1,001
6	High-Quality Metal Oxide Core/Shell Nanowire Arrays on Conductive Substrates for Electrochemical Energy Storage. ACS Nano, 2012, 6, 5531-5538.	14.6	972
7	Formation of Nanotubes and Hollow Nanoparticles Based on Kirkendall and Diffusion Processes: A Review. Small, 2007, 3, 1660-1671.	10.0	872
8	Three-Dimensional Graphene Foam Supported Fe ₃ O ₄ Lithium Battery Anodes with Long Cycle Life and High Rate Capability. Nano Letters, 2013, 13, 6136-6143.	9.1	738
9	Semiconductor Nanowires: From Self-Organization to Patterned Growth. Small, 2006, 2, 700-717.	10.0	715
10	Monocrystalline spinel nanotube fabrication based on the Kirkendall effect. Nature Materials, 2006, 5, 627-631.	27.5	699
11	Nonaqueous Hybrid Lithium ⁺ and Sodium ⁺ Capacitors. Advanced Materials, 2017, 29, 1702093.	21.0	699
12	Exceptional performance of hierarchical Ni ²⁺ /Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. Energy and Environmental Science, 2020, 13, 86-95.	30.8	698
13	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. Angewandte Chemie - International Edition, 2016, 55, 8670-8674.	13.8	624
14	A High-Rate and Stable Quasi-Solid-State Zinc ²⁺ Battery with Novel 2D Layered Zinc Orthovanadate Array. Advanced Materials, 2018, 30, e1803181.	21.0	571
15	In Situ Transformation of MOFs into Layered Double Hydroxide Embedded Metal Sulfides for Improved Electrocatalytic and Supercapacitive Performance. Advanced Materials, 2017, 29, 1606814.	21.0	502
16	Graphene Quantum Dots Coated VO ₂ Arrays for Highly Durable Electrodes for Li and Na Ion Batteries. Nano Letters, 2015, 15, 565-573.	9.1	493
17	3D Porous Hierarchical Nickel ²⁺ /Molybdenum Nitrides Synthesized by RF Plasma as Highly Active and Stable Hydrogen ⁺ Evolution ⁺ Reaction Electrocatalysts. Advanced Energy Materials, 2016, 6, 1600221.	19.5	464
18	Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe ₂ /MoS ₂ van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858.	14.6	453

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19	A V ₂ O ₅ /Conductive Polymer Core/Shell Nanobelt Array on Three-Dimensional Graphite Foam: A High-Rate, Ultrastable, and Freestanding Cathode for Lithium-Ion Batteries. Advanced Materials, 2014, 26, 5794-5800.	21.0	450
20	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. Small, 2016, 12, 3048-3058.	10.0	440
21	Epitaxial Growth of Branched Fe ₂ O ₃ /SnO ₂ Nano-Heterostructures with Improved Lithium-Ion Battery Performance. Advanced Functional Materials, 2011, 21, 2439-2445.	14.9	439
22	A New Type of Porous Graphite Foams and Their Integrated Composites with Oxide/Polymer Core/Shell Nanowires for Supercapacitors: Structural Design, Fabrication, and Full Supercapacitor Demonstrations. Nano Letters, 2014, 14, 1651-1658.	9.1	428
23	Seed-assisted synthesis of highly ordered TiO ₂ @Fe ₂ O ₃ core/shell arrays on carbon textiles for lithium-ion battery applications. Energy and Environmental Science, 2012, 5, 6559.	30.8	421
24	Synthesis of Free-Standing Metal Sulfide Nanoarrays via Anion Exchange Reaction and Their Electrochemical Energy Storage Application. Small, 2014, 10, 766-773.	10.0	413
25	Three-dimensional tubular arrays of MnO ₂ @NiO nanoflakes with high areal pseudocapacitance. Journal of Materials Chemistry, 2012, 22, 2419-2426.	6.7	408
26	Hybrid structure of cobalt monoxide nanowire @ nickel hydroxidenitrate nanoflake aligned on nickel foam for high-rate supercapacitor. Energy and Environmental Science, 2011, 4, 4496.	30.8	386
27	Design Strategies for High-Energy-Density Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	383
28	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . Advanced Functional Materials, 2016, 26, 1169-1177.	14.9	376
29	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. Advanced Materials, 2018, 30, e1705516.	21.0	375
30	All Metal Nitrides Solid-State Asymmetric Supercapacitors. Advanced Materials, 2015, 27, 4566-4571.	21.0	371
31	Influence of Surface Diffusion on the Formation of Hollow Nanostructures Induced by the Kirkendall Effect: The Basic Concept. Nano Letters, 2007, 7, 993-997.	9.1	363
32	Solution synthesis of metal oxides for electrochemical energy storage applications. Nanoscale, 2014, 6, 5008-5048.	5.6	363
33	Strong Electronic Interaction in Dual-Cation-Incorporated NiSe ₂ Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. Advanced Materials, 2018, 30, e1802121.	21.0	361
34	A Flexible Alkaline Rechargeable Ni/Fe Battery Based on Graphene Foam/Carbon Nanotubes Hybrid Film. Nano Letters, 2014, 14, 7180-7187.	9.1	346
35	A High-Energy Lithium-Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridine-Derived Porous Nitrogen-Doped Carbon Cathode. Advanced Functional Materials, 2016, 26, 3082-3093.	14.9	330
36	Iron Oxide-Based Nanotube Arrays Derived from Sacrificial Template-Accelerated Hydrolysis: Large-Area Design and Reversible Lithium Storage. Chemistry of Materials, 2010, 22, 212-217.	6.7	311

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37	Branched nanowires: Synthesis and energy applications. Nano Today, 2012, 7, 327-343.	11.9	309
38	Recent Advances in Improving the Stability of Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501420.	19.5	303
39	Rationally Designed Hierarchical $\text{TiO}_2 @ \text{Fe}_2\text{O}_3$ Hollow Nanostructures for Improved Lithium Ion Storage. Advanced Energy Materials, 2013, 3, 737-743.	19.5	296
40	Discerning the Surface and Bulk Recombination Kinetics of Organic-Inorganic Halide Perovskite Single Crystals. Advanced Energy Materials, 2016, 6, 1600551.	19.5	271
41	Highly Stable and Reversible Lithium Storage in SnO_2 Nanowires Surface Coated with a Uniform Hollow Shell by Atomic Layer Deposition. Nano Letters, 2014, 14, 4852-4858.	9.1	269
42	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	4.9	269
43	Hierarchical Assembly of ZnO Nanostructures on SnO_2 Backbone Nanowires: Low-Temperature Hydrothermal Preparation and Optical Properties. ACS Nano, 2009, 3, 3069-3076.	14.6	260
44	A High Energy and Power Li-Ion Capacitor Based on a TiO_2 Nanobelt Array Anode and a Graphene Hydrogel Cathode. Small, 2015, 11, 1470-1477.	10.0	256
45	A general strategy toward graphene@metal oxide core-shell nanostructures for high-performance lithium storage. Energy and Environmental Science, 2011, 4, 4954.	30.8	255
46	A reduced graphene oxide/mixed-valence manganese oxide composite electrode for tailorable and surface mountable supercapacitors with high capacitance and super-long life. Energy and Environmental Science, 2017, 10, 941-949.	30.8	253
47	Three-dimensional graphene and their integrated electrodes. Nano Today, 2014, 9, 785-807.	11.9	251
48	$\text{TiO}_2 / (\text{CdS}, \text{CdSe}, \text{CdSeS})$ Nanorod Heterostructures and Photoelectrochemical Properties. Journal of Physical Chemistry C, 2012, 116, 11956-11963.	3.1	241
49	Porous Fe_2O_3 nanorods supported on carbon nanotubes-graphene foam as superior anode for lithium ion batteries. Nano Energy, 2014, 9, 364-372.	16.0	241
50	Nanoporous Walls on Macroporous Foam: Rational Design of Electrodes to Push Areal Pseudocapacitance. Advanced Materials, 2012, 24, 4186-4190.	21.0	239
51	Surface plasmon enhanced band edge luminescence of ZnO nanorods by capping Au nanoparticles. Applied Physics Letters, 2010, 96, .	3.3	238
52	Porous SnO_2 nanowire bundles for photocatalyst and Li ion battery applications. CrystEngComm, 2011, 13, 3506.	2.6	220
53	Atomically Dispersed Co_6 and Fe_4 Costructures Boost Oxygen Reduction Reaction in Both Alkaline and Acidic Media. Advanced Materials, 2021, 33, e2104718.	21.0	218
54	Tailorable and Wearable Textile Devices for Solar Energy Harvesting and Simultaneous Storage. ACS Nano, 2016, 10, 9201-9207.	14.6	213

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55	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. Energy and Environmental Science, 2015, 8, 1559-1568.	30.8	210
56	Template-Assisted Large-Scale Ordered Arrays of ZnO Pillars for Optical and Piezoelectric Applications. Small, 2006, 2, 561-568.	10.0	209
57	Quantum-Sensitized TiO ₂ Inverse Opals for Photoelectrochemical Hydrogen Generation. Small, 2012, 8, 37-42.	10.0	208
58	Ultrathin Anatase TiO ₂ Nanosheets Embedded with TiO ₂ Nanodomains for Lithium-Ion Storage: Capacity Enhancement by Phase Boundaries. Advanced Energy Materials, 2015, 5, 1401756.	19.5	208
59	Porous Hydroxide Nanosheets on Preformed Nanowires by Electrodeposition: Branched Nanoarrays for Electrochemical Energy Storage. Chemistry of Materials, 2012, 24, 3793-3799.	6.7	201
60	Fabrication and SERS Performance of Silver-Nanoparticle-Decorated Si/ZnO Nanotrees in Ordered Arrays. ACS Applied Materials & Interfaces, 2010, 2, 1824-1828.	8.0	198
61	Controllable Growth of Conducting Polymers Shell for Constructing High-Quality Organic/Inorganic Core/Shell Nanostructures and Their Optical-Electrochemical Properties. Nano Letters, 2013, 13, 4562-4568.	9.1	197
62	Flexible Quasi-Solid-State Sodium-Ion Capacitors Developed Using 2D Metal-Organic Framework Array as Reactor. Advanced Energy Materials, 2018, 8, 1702769.	19.5	195
63	Functionalized highly porous graphitic carbon fibers for high-rate supercapacitive electrodes. Nano Energy, 2015, 13, 658-669.	16.0	187
64	Ordered Array of Gold Semishells on TiO ₂ Spheres: An Ultrasensitive and Recyclable SERS Substrate. ACS Applied Materials & Interfaces, 2012, 4, 2180-2185.	8.0	186
65	Hollow core-shell nanostructure supercapacitor electrodes: gap matters. Energy and Environmental Science, 2012, 5, 9085.	30.8	184
66	Tip-Enhanced Electric Field: A New Mechanism Promoting Mass Transfer in Oxygen Evolution Reactions. Advanced Materials, 2021, 33, e2007377.	21.0	179
67	From aqueous Zn-ion battery to Zn-MnO ₂ flow battery: A brief story. Journal of Energy Chemistry, 2021, 54, 194-201.	12.9	171
68	Ultrathin nickel hydroxidenitrate nanoflakes branched on nanowire arrays for high-rate pseudocapacitive energy storage. Chemical Communications, 2011, 47, 3436.	4.1	169
69	Stable Zinc Anodes Enabled by a Zincophilic Polyanionic Hydrogel Layer. Advanced Materials, 2022, 34, e2202382.	21.0	168
70	TiO ₂ nanotube @ SnO ₂ nanoflake core-shell branch arrays for lithium-ion battery anode. Nano Energy, 2014, 4, 105-112.	16.0	165
71	Giant photostriction in organic-inorganic lead halide perovskites. Nature Communications, 2016, 7, 11193.	12.8	164
72	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	11.2	163

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73	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1800058.	19.5	157
74	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-Free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700220.	19.5	156
75	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 342201.	1.8	155
76	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 2750-2756.	17.4	154
77	VO ₂ nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <i>Materials Horizons</i> , 2015, 2, 237-244.	12.2	152
78	High Temperature Thermoelectric Response of Electron-Doped CaMnO ₃ . <i>Chemistry of Materials</i> , 2009, 21, 4653-4660.	6.7	149
79	Perovskite solar cell powered electrochromic batteries for smart windows. <i>Materials Horizons</i> , 2016, 3, 588-595.	12.2	148
80	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , 2005, 16, 913-917.	2.6	147
81	In Situ Hard-Template Synthesis of Hollow Bowl-Like Carbon: A Potential Versatile Platform for Sodium and Zinc Ion Capacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2002741.	19.5	143
82	Progress and Challenge of Amorphous Catalysts for Electrochemical Water Splitting. , 2021, 3, 136-147.		143
83	Poly(2,5-Dihydroxy-1,4-Benzoquinonyl Sulfide) As an Efficient Cathode for High-Performance Aqueous Zinc-Organic Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2010049.	14.9	143
84	Strongly Correlated Properties and Enhanced Thermoelectric Response in Ca ₃ Co ₄ '' _x /M _x O ₉ (M = Fe, Mn, and Cu). <i>Chemistry of Materials</i> , 2010, 22, 1155-1163.	6.7	141
85	Novel Metal@Carbon Spheres Core-Shell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015, 5, 1401709.	19.5	139
86	Controlled synthesis of hierarchical graphene-wrapped TiO ₂ @Co ₃ O ₄ coaxial nanobelt arrays for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 273-281.	10.3	135
87	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. <i>Angewandte Chemie</i> , 2016, 128, 8812-8816.	2.0	132
88	Two-dimensional dendritic ZnO nanowires from oxidation of Zn microcrystals. <i>Applied Physics Letters</i> , 2004, 85, 4142-4144.	3.3	130
89	Fracture strength and Young's modulus of ZnO nanowires. <i>Nanotechnology</i> , 2007, 18, 205503.	2.6	130
90	Modulating Built-In Electric Field via Variable Oxygen Affinity for Robust Hydrogen Evolution Reaction in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	130

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91	Intercalation Pseudocapacitive Behavior Powers Aqueous Batteries. <i>CheM</i> , 2019, 5, 1359-1361.	11.7	128
92	Photon Upconversion in Hetero- Nanostructured Photoanodes for Enhanced Near-Infrared Light Harvesting. <i>Advanced Materials</i> , 2013, 25, 1603-1607.	21.0	127
93	Bilayer porous polymer for efficient passive building cooling. <i>Nano Energy</i> , 2021, 85, 105971.	16.0	123
94	3D Interdigital Au/MnO ₂ /Au Stacked Hybrid Electrodes for On-Chip Microsupercapacitors. <i>Small</i> , 2016, 12, 3059-3069.	10.0	119
95	Uncovering loss mechanisms in silver nanoparticle-blended plasmonic organic solar cells. <i>Nature Communications</i> , 2013, 4, 2004.	12.8	118
96	Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-ion Storage. <i>Advanced Materials</i> , 2018, 30, e1804833.	21.0	117
97	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020, 11, 2253.	12.8	112
98	Integrated Photo-Supercapacitor Based on PEDOT Modified Printable Perovskite Solar Cell. <i>Advanced Materials Technologies</i> , 2016, 1, 1600074.	5.8	110
99	Well-ordered ZnO nanowire arrays on GaN substrate fabricated via nanosphere lithography. <i>Journal of Crystal Growth</i> , 2006, 287, 34-38.	1.5	108
100	Solution Transformation of Cu ₂ O into CuInS ₂ for Solar Water Splitting. <i>Nano Letters</i> , 2015, 15, 1395-1402.	9.1	108
101	Ultrathin nickel boron oxide nanosheets assembled vertically on graphene: a new hybrid 2D material for enhanced photo/electro-catalysis. <i>Materials Horizons</i> , 2017, 4, 885-894.	12.2	108
102	Mechanistic Insights of Mg ²⁺ -Electrolyte Additive for High-Energy and Long-Life Zinc-Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2101158.	19.5	108
103	Self-branched β -MnO ₂ / γ -MnO ₂ heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017, 4, 415-422.	12.2	105
104	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400499.	3.7	102
105	Intercalation Na-ion storage in two-dimensional MoS _{2-x} Se _x and capacity enhancement by selenium substitution. <i>Energy Storage Materials</i> , 2018, 14, 136-142.	18.0	102
106	Thermal Self-Protection of Zinc-Ion Batteries Enabled by Smart Hygroscopic Hydrogel Electrolytes. <i>Advanced Energy Materials</i> , 2020, 10, 2002898.	19.5	102
107	ZnO-based ternary compound nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 885-900.	6.7	101
108	High-mass loading V ₃ O ₇ ·H ₂ O nanoarray for Zn-ion battery: New synthesis and two-stage ion intercalation chemistry. <i>Nano Energy</i> , 2021, 83, 105835.	16.0	100

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109	Monolayers of $WxMo_{1-x}S_2$ alloy heterostructure with in-plane composition variations. Applied Physics Letters, 2015, 106, .	3.3	99
110	Integration of flexibility, cyclability and high-capacity into one electrode for sodium-ion hybrid capacitors with low self-discharge rate. Energy Storage Materials, 2020, 25, 114-123.	18.0	99
111	Van der Waals π -n Junction Based on an Organic-Inorganic Heterostructure. Advanced Functional Materials, 2015, 25, 5865-5871.	14.9	98
112	Vapour-transport-deposition growth of ZnO nanostructures: switch between c-axis wires and a-axis belts by indium doping. Nanotechnology, 2006, 17, S231-S239.	2.6	97
113	Reunderstanding the Reaction Mechanism of Aqueous Zn-Mn Batteries with Sulfate Electrolytes: Role of the Zinc Sulfate Hydroxide. Advanced Materials, 2022, 34, e2109092.	21.0	97
114	On the growth mechanism and optical properties of ZnO multi-layer nanosheets. Applied Physics A: Materials Science and Processing, 2004, 79, 1895-1900.	2.3	96
115	Laser-Interference Lithography Tailored for Highly Symmetrically Arranged ZnO Nanowire Arrays. Small, 2007, 3, 76-80.	10.0	95
116	A Novel Photoanode with Three-Dimensionally, Hierarchically Ordered Nanobushes for Highly Efficient Photoelectrochemical Cells. Advanced Materials, 2012, 24, 4157-4162.	21.0	93
117	An analysis of the electrochemical mechanism of manganese oxides in aqueous zinc batteries. Chem, 2022, 8, 924-946.	11.7	92
118	Electrospun Fe_2O_3 -carbon composite nanofibers as durable anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10835.	10.3	91
119	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. ACS Nano, 2009, 3, 700-706.	14.6	89
120	Single-Crystalline, Metallic TiC Nanowires for Highly Robust and Wide-Temperature Electrochemical Energy Storage. Small, 2017, 13, 1602742.	10.0	89
121	Ferroelastic-switching-driven large shear strain and piezoelectricity in a hybrid ferroelectric. Nature Materials, 2021, 20, 612-617.	27.5	87
122	Hydrated Eutectic Electrolyte with Ligand-Oriented Solvation Shell to Boost the Stability of Zinc Battery. Advanced Functional Materials, 2022, 32, .	14.9	87
123	Correlation between the Structural Distortions and Thermoelectric Characteristics in $La_{1-x}A_xCo_3$ ($A = Ca$ and Sr). Inorganic Chemistry, 2010, 49, 3216-3223.	4.0	86
124	Applications of atomic layer deposition in solar cells. Nanotechnology, 2015, 26, 064001.	2.6	86
125	Integrated photoelectrochemical energy storage: solar hydrogen generation and supercapacitor. Scientific Reports, 2012, 2, 981.	3.3	85
126	Highly Ordered Arrays of Particle-in-Bowl Plasmonic Nanostructures for Surface-Enhanced Raman Scattering. Small, 2012, 8, 2548-2554.	10.0	84

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127	Flexible Pseudocapacitive Electrochromics via Inkjet Printing of Additive-Free Tungsten Oxide Nanocrystal Ink. <i>Advanced Energy Materials</i> , 2020, 10, 2000142.	19.5	82
128	Metal organic framework (MOF) in aqueous energy devices. <i>Materials Today</i> , 2021, 48, 270-284.	14.2	82
129	Homogeneous Photosensitization of Complex TiO ₂ Nanostructures for Efficient Solar Energy Conversion. <i>Scientific Reports</i> , 2012, 2, 451.	3.3	81
130	Composition-Graded Zn _x Cd _{1-x} Se@ZnO Core-Shell Nanowire Array Electrodes for Photoelectrochemical Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3802-3807.	3.1	81
131	High-Index-Faceted Ni ₃ S ₂ Branch Arrays as Bifunctional Electrocatalysts for Efficient Water Splitting. <i>Nano-Micro Letters</i> , 2019, 11, 12.	27.0	81
132	Fluorine-Induced Dual Defects in Cobalt Phosphide Nanosheets Enhance Hydrogen Evolution Reaction Activity. , 2020, 2, 736-743.		81
133	Atomic layer deposition for nanofabrication and interface engineering. <i>Nanoscale</i> , 2012, 4, 1522.	5.6	80
134	Fabrication of metal oxide nanobranches on atomic-layer-deposited TiO ₂ nanotube arrays and their application in energy storage. <i>Nanoscale</i> , 2013, 5, 6040.	5.6	79
135	Plasma surface functionalization induces nanostructuring and nitrogen-doping in carbon cloth with enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17801-17808.	10.3	79
136	Combining Co ₃ S ₄ and Ni:Co ₃ S ₄ nanowires as efficient catalysts for overall water splitting: an experimental and theoretical study. <i>Nanoscale</i> , 2019, 11, 2202-2210.	5.6	79
137	Integration of Energy Harvesting and Electrochemical Storage Devices. <i>Advanced Materials Technologies</i> , 2017, 2, 1700182.	5.8	78
138	Hierarchically porous three-dimensional electrodes of CoMoO ₄ and ZnCo ₂ O ₄ and their high anode performance for lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 10556.	5.6	77
139	In-Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. <i>Advanced Materials</i> , 2018, 30, e1803249.	21.0	76
140	Growth mechanism and characterization of zinc oxide microcages. <i>Solid State Communications</i> , 2004, 130, 517-521.	1.9	75
141	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.	3.7	75
142	ZnO nanowires and nanobelts: Shape selection and thermodynamic modeling. <i>Applied Physics Letters</i> , 2007, 90, 143116.	3.3	73
143	Understanding the Enhancement Mechanisms of Surface Plasmon-Mediated Photoelectrochemical Electrodes: A Case Study on Au Nanoparticle Decorated TiO ₂ Nanotubes. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500169.	3.7	73
144	A low-cost and one-step synthesis of N-doped monolithic quasi-graphene films with porous carbon frameworks for Li-ion batteries. <i>Nano Energy</i> , 2015, 17, 43-51.	16.0	73

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145	Ferroelectric nanotubes fabricated using nanowires as positive templates. Applied Physics Letters, 2006, 89, 172907.	3.3	72
146	Magnetic-field-induced rapid synthesis of defect-enriched Ni-Co nanowire membrane as highly efficient hydrogen evolution electrocatalyst. Nano Energy, 2018, 51, 349-357.	16.0	72
147	Patterned growth of aligned ZnO nanowire arrays on sapphire and GaN layers. Superlattices and Microstructures, 2004, 36, 95-105.	3.1	70
148	Partial Nitridation-Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. Advanced Energy Materials, 2018, 8, 1800685.	19.5	70
149	Single-crystalline MgAl ₂ O ₄ spinel nanotubes using a reactive and removable MgO nanowire template. Nanotechnology, 2006, 17, 5157-5162.	2.6	69
150	Continuous Tuning of Au-Cu ₂ O Janus Nanostructures for Efficient Charge Separation. Angewandte Chemie - International Edition, 2020, 59, 22246-22251.	13.8	69
151	Fine Structure of Ultraviolet Photoluminescence of Tin Oxide Nanowires. Journal of Physical Chemistry C, 2010, 114, 3407-3410.	3.1	68
152	Atomic Layer Deposition of ZnO on Multi-walled Carbon Nanotubes and Its Use for Synthesis of CNT-ZnO Heterostructures. Nanoscale Research Letters, 2010, 5, 1836-1840.	5.7	67
153	Highly stable and flexible Li-ion battery anodes based on TiO ₂ coated 3D carbon nanostructures. Journal of Materials Chemistry A, 2015, 3, 15394-15398.	10.3	65
154	Al ₂ O ₃ -Assisted Confinement Synthesis of Oxide/Carbon Hollow Composite Nanofibers and Application in Metal-Ion Capacitors. Small, 2020, 16, e2001950.	10.0	65
155	Multitwinned Spinel Nanowires by Assembly of Nanobricks <i>via</i> Oriented Attachment: A Case Study of Zn ₂ TiO ₄ . ACS Nano, 2009, 3, 555-562.	14.6	64
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