

Di Chen

List of Publications by Year in descending order

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papers

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all docs

449
docs citations

449
times ranked

31808
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Energy Storage Devices: Design Consideration and Recent Progress. <i>Advanced Materials</i> , 2014, 26, 4763-4782.	11.1	1,153
2	Hierarchical Three-Dimensional ZnCo ₂ O ₄ Nanowire Arrays/Carbon Cloth Anodes for a Novel Class of High-Performance Flexible Lithium-Ion Batteries. <i>Nano Letters</i> , 2012, 12, 3005-3011.	4.5	967
3	Preparation and Characterization of Flexible Asymmetric Supercapacitors Based on Transition-Metal-Oxide Nanowire/Single-Walled Carbon Nanotube Hybrid Thin-Film Electrodes. <i>ACS Nano</i> , 2010, 4, 4403-4411.	7.3	729
4	Flexible Asymmetric Supercapacitors Based upon Co ₉ S ₈ Nanorod//Co ₃ O ₄ @RuO ₂ Nanosheet Arrays on Carbon Cloth. <i>ACS Nano</i> , 2013, 7, 5453-5462.	7.3	613
5	Hierarchical WO ₃ Hollow Shells: Dendrite, Sphere, Dumbbell, and Their Photocatalytic Properties. <i>Advanced Functional Materials</i> , 2008, 18, 1922-1928.	7.8	548
6	An ultra-sensitive and rapid response speed graphene pressure sensors for electronic skin and health monitoring. <i>Nano Energy</i> , 2016, 23, 7-14.	8.2	467
7	Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe ₂ /MoS ₂ van der Waals Heterostructures. <i>ACS Nano</i> , 2016, 10, 3852-3858.	7.3	453
8	Flexible electronics based on inorganic nanowires. <i>Chemical Society Reviews</i> , 2015, 44, 161-192.	18.7	429
9	Fiber-Based Flexible All-Solid-State Asymmetric Supercapacitors for Integrated Photodetecting System. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1849-1853.	7.2	387
10	New Energy Storage Option: Toward ZnCo ₂ O ₄ Nanorods/Nickel Foam Architectures for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10011-10017.	4.0	362
11	NiCo ₂ O ₄ nanowire arrays supported on Ni foam for high-performance flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2468.	5.2	344
12	New insights and perspectives into biological materials for flexible electronics. <i>Chemical Society Reviews</i> , 2017, 46, 6764-6815.	18.7	322
13	Wearable Sensors Enabled Human-Machine Interaction Systems: From Design to Application. <i>Advanced Functional Materials</i> , 2021, 31, 2008936.	7.8	322
14	Ternary oxide nanostructured materials for supercapacitors: a review. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10158-10173.	5.2	320
15	Shape-Controlled Synthesis of Co ₂ P Nanostructures and Their Application in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3892-3900.	4.0	319
16	Morphology evolution of urchin-like NiCo ₂ O ₄ nanostructures and their applications as pseudocapacitors and photoelectrochemical cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 21647.	6.7	310
17	Bioinspired Interlocked Structure-Induced High Deformability for Two-Dimensional Titanium Carbide (MXene)/Natural Microcapsule-Based Flexible Pressure Sensors. <i>ACS Nano</i> , 2019, 13, 9139-9147.	7.3	308
18	Thickness-Dependent Photocatalytic Performance of ZnO Nanoplatelets. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15146-15151.	1.2	305

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19	Devices and chemical sensing applications of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 828-839.	6.7	301
20	An Artificial Flexible Visual Memory System Based on an UV-Motivated Memristor. <i>Advanced Materials</i> , 2018, 30, 1705400.	11.1	299
21	Transparent Electronics Based on Transfer Printed Aligned Carbon Nanotubes on Rigid and Flexible Substrates. <i>ACS Nano</i> , 2009, 3, 73-79.	7.3	265
22	Intercalation pseudo-capacitive TiNb ₂ O ₇ @carbon electrode for high-performance lithium ion hybrid electrochemical supercapacitors with ultrahigh energy density. <i>Nano Energy</i> , 2015, 15, 104-115.	8.2	263
23	Flexible coaxial-type fiber supercapacitor based on NiCo ₂ O ₄ nanosheets electrodes. <i>Nano Energy</i> , 2014, 8, 44-51.	8.2	248
24	Rechargeable Mg-Ion Batteries Based on WSe ₂ Nanowire Cathodes. <i>ACS Nano</i> , 2013, 7, 8051-8058.	7.3	244
25	Three-Dimensional Hierarchical GeSe ₂ Nanostructures for High Performance Flexible All-Solid-State Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 1479-1486.	11.1	236
26	A flexible spiral-type supercapacitor based on ZnCo ₂ O ₄ nanorod electrodes. <i>Nanoscale</i> , 2015, 7, 1921-1926.	2.8	228
27	Recent Advances in Fiber Supercapacitors: Materials, Device Configurations, and Applications. <i>Advanced Materials</i> , 2020, 32, e1901806.	11.1	225
28	Recent Progress of Self-Powered Sensing Systems for Wearable Electronics. <i>Small</i> , 2017, 13, 1701791.	5.2	223
29	Bimetal Schottky Heterojunction Boosting Energy-Saving Hydrogen Production from Alkaline Water via Urea Electrocatalysis. <i>Advanced Functional Materials</i> , 2020, 30, 2000556.	7.8	216
30	Reviews of wearable healthcare systems: Materials, devices and system integration. <i>Materials Science and Engineering Reports</i> , 2020, 140, 100523.	14.8	215
31	High-Performance Organic-Inorganic Hybrid Photodetectors Based on P3HT:CdSe Nanowire Heterojunctions on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2013, 23, 1202-1209.	7.8	213
32	Transferable and Flexible Nanorod-Assembled TiO ₂ Cloths for Dye-Sensitized Solar Cells, Photodetectors, and Photocatalysts. <i>ACS Nano</i> , 2011, 5, 8412-8419.	7.3	209
33	Wafer Scale Phase-Engineered 1T- and 2H-MoSe ₂ /Mo Core-Shell 3D Hierarchical Nanostructures toward Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2016, 28, 9831-9838.	11.1	208
34	Recent Advances in Flexible/Stretchable Supercapacitors for Wearable Electronics. <i>Small</i> , 2018, 14, e1702829.	5.2	208
35	High-performance energy-storage devices based on WO ₃ nanowire arrays/carbon cloth integrated electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7167.	5.2	203
36	Sheet-like MoSe ₂ /C composites with enhanced Li-ion storage properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11857-11862.	5.2	198

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37	Ultrasensitive and ultraflexible e-skins with dual functionalities for wearable electronics. <i>Nano Energy</i> , 2017, 38, 28-35.	8.2	194
38	ZnO Quantum Dot Decorated Zn ₂ SnO ₄ Nanowire Heterojunction Photodetectors with Drastic Performance Enhancement and Flexible Ultraviolet Image Sensors. <i>ACS Nano</i> , 2017, 11, 4067-4076.	7.3	190
39	Synthesis and Evolution of Novel Hollow ZnO Urchins by a Simple Thermal Evaporation Process. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10578-10583.	1.2	178
40	Integrated smart electrochromic windows for energy saving and storage applications. <i>Chemical Communications</i> , 2014, 50, 608-610.	2.2	175
41	Flexible and transparent supercapacitor based on In ₂ O ₃ nanowire/carbon nanotube heterogeneous films. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	173
42	Electrospun Polyaniline Fibers as Highly Sensitive Room Temperature Chemiresistive Sensors for Ammonia and Nitrogen Dioxide Gases. <i>Advanced Functional Materials</i> , 2014, 24, 4005-4014.	7.8	170
43	Synthesis and Optical Properties of S-Doped ZnO Nanostructures: Nanonails and Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5491-5496.	1.2	167
44	Facile Growth of Caterpillar-like NiCo ₂ S ₄ Nanocrystal Arrays on Nickel Foam for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18774-18781.	4.0	165
45	Integrated Photoelectrochemical Supercapacitor Based on Bipolar TiO ₂ Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation. <i>Advanced Functional Materials</i> , 2014, 24, 1840-1846.	7.8	163
46	Recent Developments in Graphene-Based Tactile Sensors and E-skins. <i>Advanced Materials Technologies</i> , 2018, 3, 1700248.	3.0	153
47	Biomimetic, biocompatible and robust silk Fibroin-MXene film with stable 3D cross-link structure for flexible pressure sensors. <i>Nano Energy</i> , 2020, 78, 105252.	8.2	153
48	Chemical Sensors and Electronic Noses Based on 1-D Metal Oxide Nanostructures. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 668-682.	1.1	151
49	Core-Shell CuCo ₂ O ₄ @MnO ₂ Nanowires on Carbon Fabrics as High-Performance Materials for Flexible, All-Solid-State, Electrochemical Capacitors. <i>ChemElectroChem</i> , 2014, 1, 559-564.	1.7	149
50	Highly Sensitive Low-Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. <i>Advanced Functional Materials</i> , 2017, 27, 1703953.	7.8	148
51	Synthesis, characterization and field-emission properties of bamboo-like β -SiC nanowires. <i>Nanotechnology</i> , 2006, 17, 3468-3472.	1.3	146
52	Flexible fiber energy storage and integrated devices: recent progress and perspectives. <i>Materials Today</i> , 2015, 18, 265-272.	8.3	146
53	An Electrically Modulated Single-Color/Dual-Color Imaging Photodetector. <i>Advanced Materials</i> , 2020, 32, e1907257.	11.1	145
54	Highly Stretchable Micro-Supercapacitor Arrays with Hybrid MWCNT/PANI Electrodes. <i>Advanced Materials Technologies</i> , 2017, 2, 1600282.	3.0	144

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55	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <i>Nature Materials</i> , 2019, 18, 1350-1357.	13.3	144
56	Wearable sweat monitoring system with integrated micro-supercapacitors. <i>Nano Energy</i> , 2019, 58, 624-632.	8.2	143
57	Controlled Assembly of MXene Nanosheets as an Electrode and Active Layer for High-Performance Electronic Skin. <i>Advanced Functional Materials</i> , 2021, 31, 2010533.	7.8	143
58	A Systematical Study on Photocatalytic Properties of AgMO_2 (M = Al, Ga, In): Effects of Chemical Compositions, Crystal Structures, and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1560-1566.	1.5	141
59	Gas sensors, thermistor and photodetector based on ZnS nanowires. <i>Journal of Materials Chemistry</i> , 2012, 22, 6845.	6.7	140
60	Self-Coiling of $\text{Ag}_2\text{V}_4\text{O}_{11}$ Nanobelts into Perfect Nanorings and Microloops. <i>Journal of the American Chemical Society</i> , 2006, 128, 11762-11763.	6.6	136
61	Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. <i>Scientific Reports</i> , 2013, 3, 1622.	1.6	136
62	TiO ₂ modified FeS Nanostructures with Enhanced Electrochemical Performance for Lithium-Ion Batteries. <i>Scientific Reports</i> , 2013, 3, 2007.	1.6	133
63	Flexible, Planar-Integrated, All-Solid-State Fiber Supercapacitors with an Enhanced Distributed-Capacitance Effect. <i>Small</i> , 2013, 9, 1998-2004.	5.2	133
64	Nanorod-assembled Co ₃ O ₄ hexapods with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 23541.	6.7	132
65	All rGO-on-PVDF-nanofibers based self-powered electronic skins. <i>Nano Energy</i> , 2017, 35, 121-127.	8.2	132
66	Device Configurations and Future Prospects of Flexible/Stretchable Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1805596.	7.8	132
67	High-aspect-ratio single-crystalline porous In ₂ O ₃ nanobelts with enhanced gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 12852.	6.7	131
68	Flexible Photodetectors Based on 1D Inorganic Nanostructures. <i>Advanced Science</i> , 2016, 3, 1500287.	5.6	131
69	Recent Advances in Smart Wearable Sensing Systems. <i>Advanced Materials Technologies</i> , 2018, 3, 1800444.	3.0	128
70	$\text{Ti}_3\text{C}_2\text{T}_x$ MXene Conductive Layers Supported Bio-Derived Fe_xSe_x MXene/Carbonaceous Nanoribbons for High-Performance Half/Full Sodium-Ion and Potassium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101535.	11.1	128
71	Flexible Self-Powered Integrated Sensing System with 3D Periodic Ordered Black Phosphorus@MXene Thin-Films. <i>Advanced Materials</i> , 2021, 33, e2007890.	11.1	127
72	Nanowires Assembled SnO ₂ Nanopolyhedrons with Enhanced Gas Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2112-2117.	4.0	125

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73	High-detectivity InAs nanowire photodetectors with spectral response from ultraviolet to near-infrared. <i>Nano Research</i> , 2013, 6, 775-783.	5.8	125
74	Flexible all-solid-state asymmetric supercapacitors with three-dimensional CoSe ₂ /carbon cloth electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7910-7918.	5.2	123
75	Polymer-Enhanced Highly Stretchable Conductive Fiber Strain Sensor Used for Electronic Data Gloves. <i>Advanced Materials Technologies</i> , 2016, 1, 1600136.	3.0	122
76	Flexible and transparent capacitive pressure sensor with patterned microstructured composite rubber dielectric for wearable touch keyboard application. <i>Science China Materials</i> , 2018, 61, 1587-1595.	3.5	122
77	SrSnO ₃ Nanostructures: Synthesis, Characterization, and Photocatalytic Properties. <i>Chemistry of Materials</i> , 2007, 19, 4585-4591.	3.2	121
78	Hierarchical MnCo ₂ O ₄ nanosheet arrays/carbon cloths as integrated anodes for lithium-ion batteries with improved performance. <i>Nanoscale</i> , 2014, 6, 8858-8864.	2.8	121
79	Large-scale synthesis of CuO shuttle-like crystals via a convenient hydrothermal decomposition route. <i>Journal of Crystal Growth</i> , 2003, 254, 225-228.	0.7	119
80	Silicon carbide hollow nanospheres, nanowires and coaxial nanowires. <i>Chemical Physics Letters</i> , 2003, 375, 177-184.	1.2	118
81	Enhanced Field Emission Performance of ZnO Nanorods by Two Alternative Approaches. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12673-12676.	1.5	116
82	Recent Advances in Carbon Material-Based Multifunctional Sensors and Their Applications in Electronic Skin Systems. <i>Advanced Functional Materials</i> , 2021, 31, 2104288.	7.8	116
83	Visible-light-driven photocatalytic and photoelectrochemical properties of porous SnS _x (x = 1,2) architectures. <i>CrystEngComm</i> , 2012, 14, 3163.	1.3	115
84	Bio-Multifunctional Smart Wearable Sensors for Medical Devices. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900040.	3.3	115
85	Vapor-Solid Growth of One-Dimensional Layer-Structured Gallium Sulfide Nanostructures. <i>ACS Nano</i> , 2009, 3, 1115-1120.	7.3	111
86	Recent Advances in Perovskite Photodetectors for Image Sensing. <i>Small</i> , 2021, 17, e2005606.	5.2	111
87	Flexible Smart Noncontact Control Systems with Ultrasensitive Humidity Sensors. <i>Small</i> , 2019, 15, e1902801.	5.2	110
88	Grain-Boundary-Induced Drastic Sensing Performance Enhancement of Polycrystalline Microwire Printed Gas Sensors. <i>Advanced Materials</i> , 2019, 31, e1804583.	11.1	110
89	Advanced rechargeable lithium-ion batteries based on bendable ZnCo ₂ O ₄ -urchins-on-carbon-fibers electrodes. <i>Nano Research</i> , 2013, 6, 525-534.	5.8	109
90	Synthesis of Single-Crystal CdS Microbelts Using a Modified Thermal Evaporation Method and Their Photoluminescence. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9294-9298.	1.2	107

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91	Fabrication of flexible reduced graphene oxide/Fe ₂ O ₃ hollow nanospheres based on-chip micro-supercapacitors for integrated photodetecting applications. Nano Research, 2016, 9, 424-434.	5.8	107
92	Microwave-assisted synthesis of metal sulfides in ethylene glycol. Materials Chemistry and Physics, 2003, 82, 206-209.	2.0	106
93	AOT-Microemulsions-Based Formation and Evolution of PbWO ₄ Crystals. Journal of Physical Chemistry B, 2004, 108, 11280-11284.	1.2	106
94	Hierarchical CdS Nanowires Based Rigid and Flexible Photodetectors with Ultrahigh Sensitivity. ACS Applied Materials & Interfaces, 2015, 7, 23507-23514.	4.0	105
95	ZnS Nanostructures: Synthesis, Properties, and Applications. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 57-90.	6.8	104
96	SnO ₂ @TiO ₂ Heterojunction Nanostructures for Lithium-Ion Batteries and Self-Powered UV Photodetectors with Improved Performances. ChemElectroChem, 2014, 1, 108-115.	1.7	104
97	Highly-stable polymer-crosslinked 2D MXene-based flexible biocompatible electronic skins for in vivo biomonitoring. Nano Energy, 2021, 84, 105921.	8.2	104
98	A high-accuracy, real-time, intelligent material perception system with a machine-learning-motivated pressure-sensitive electronic skin. Matter, 2022, 5, 1481-1501.	5.0	104
99	Flexible planar concentric circular micro-supercapacitor arrays for wearable gas sensing application. Nano Energy, 2017, 41, 261-268.	8.2	103
100	Recent advances in low-dimensional semiconductor nanomaterials and their applications in high-performance photodetectors. Informa Mater, 2020, 2, 291-317.	8.5	103
101	Vertically aligned ZnO nanowires produced by a catalyst-free thermal evaporation method and their field emission properties. Chemical Physics Letters, 2005, 404, 69-73.	1.2	101
102	Hierarchical Saw-like ZnO Nanobelt/ZnS Nanowire Heterostructures Induced by Polar Surfaces. Journal of Physical Chemistry B, 2006, 110, 15689-15693.	1.2	100
103	A Simple Aqueous Mineralization Process to Synthesize Tetragonal Molybdate Microcrystallites. Crystal Growth and Design, 2006, 6, 247-252.	1.4	100
104	Ultralong-life and high-rate web-like Li ₄ Ti ₅ O ₁₂ anode for high-performance flexible lithium-ion batteries. Nano Research, 2014, 7, 1073-1082.	5.8	100
105	A flexible integrated photodetector system driven by on-chip microsupercapacitors. Nano Energy, 2015, 13, 131-139.	8.2	99
106	Ultrathin In ₂ O ₃ Nanowires with Diameters below 4 nm: Synthesis, Reversible Wettability Switching Behavior, and Transparent Thin-Film Transistor Applications. ACS Nano, 2011, 5, 6148-6155.	7.3	98
107	Needle-like Zn-doped SnO ₂ nanorods with enhanced photocatalytic and gas sensing properties. Nanotechnology, 2012, 23, 105502.	1.3	98
108	SnO ₂ /SnS ₂ nanotubes for flexible room-temperature NH ₃ gas sensors. RSC Advances, 2017, 7, 52503-52509.	1.7	98

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109	Fabrication of curled conducting polymer microfibrillar arrays via a novel electrospinning method for stretchable strain sensors. <i>Nanoscale</i> , 2013, 5, 7041.	2.8	97
110	Plant-Based Modular Building Blocks for "Green" Electronic Skins. <i>Advanced Functional Materials</i> , 2018, 28, 1804510.	7.8	97
111	Growth of Directly Transferable In ₂ O ₃ Nanowire Mats for Transparent Thin-Film Transistor Applications. <i>Advanced Materials</i> , 2011, 23, 771-775.	11.1	96
112	Zn ₂ GeO ₄ and In ₂ Ge ₂ O ₇ nanowire mats based ultraviolet photodetectors on rigid and flexible substrates. <i>Optics Express</i> , 2012, 20, 2982.	1.7	96
113	Tin sulfide nanoribbons as high performance photoelectrochemical cells, flexible photodetectors and visible-light-driven photocatalysts. <i>RSC Advances</i> , 2013, 3, 2746.	1.7	96
114	CuCo ₂ O ₄ Nanowires Grown on a Ni Wire for High-Performance, Flexible Fiber Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1042-1047.	1.7	93
115	Artificial Optoelectronic Synapses Based on TiN _x /i>O ₂ "</i></sub><i>x</i>/MoS ₂ Heterojunction for Neuromorphic Computing and Visual System. <i>Advanced Functional Materials</i> , 2021, 31, 2101201.	7.8	92
116	Growth of Self-Organized Hierarchical ZnO Nanoarchitectures by a Simple In/In ₂ S ₃ Controlled Thermal Evaporation Process. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10779-10785.	1.2	91
117	SnO ₂ -microtube-assembled cloth for fully flexible self-powered photodetector nanosystems. <i>Nanoscale</i> , 2013, 5, 7831.	2.8	91
118	Selective-Synthesis of High-Performance Single-Crystalline Sr ₂ Nb ₂ O ₇ Nanoribbon and SrNb ₂ O ₆ Nanorod Photocatalysts. <i>Chemistry of Materials</i> , 2009, 21, 2327-2333.	3.2	90
119	Microwave-assisted polyol synthesis of nanoscale SnS _x (x=1, 2) flakes. <i>Journal of Crystal Growth</i> , 2004, 260, 469-474.	0.7	89
120	CdS Multipod-Based Structures through a Thermal Evaporation Process. <i>Crystal Growth and Design</i> , 2005, 5, 1085-1089.	1.4	89
121	Efficient synthesis of hierarchical NiO nanosheets for high-performance flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10917-10922.	5.2	89
122	Fabrication of porous SnO ₂ nanowires gas sensors with enhanced sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 79-85.	4.0	89
123	High-Performance Single-Crystalline Arsenic-Doped Indium Oxide Nanowires for Transparent Thin-Film Transistors and Active Matrix Organic Light-Emitting Diode Displays. <i>ACS Nano</i> , 2009, 3, 3383-3390.	7.3	88
124	Facile synthesis and electrochemical properties of CoMn ₂ O ₄ anodes for high capacity lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2139-2143.	5.2	88
125	High-Performance All-Polymer Photoresponse Devices Based on Acceptor "Acceptor Conjugated Polymers. <i>Advanced Functional Materials</i> , 2016, 26, 6306-6315.	7.8	88
126	MoS ₂ -OH Bilayer-Mediated Growth of Inch-Sized Monolayer MoS ₂ on Arbitrary Substrates. <i>Journal of the American Chemical Society</i> , 2019, 141, 5392-5401.	6.6	87

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127	High-performance rigid and flexible ultraviolet photodetectors with single-crystalline ZnGa ₂ O ₄ nanowires. Nano Research, 2015, 8, 2162-2169.	5.8	86
128	Enhancing Photoresponsivity of Self-Aligned MoS ₂ Field-Effect Transistors by Piezo-Phototronic Effect from GaN Nanowires. ACS Nano, 2016, 10, 7451-7457.	7.3	86
129	3D Dielectric Layer Enabled Highly Sensitive Capacitive Pressure Sensors for Wearable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 32023-32030.	4.0	85
130	Single-Crystal Nanotubes of II-VI Semiconductors. Angewandte Chemie - International Edition, 2006, 45, 7568-7572.	7.2	82
131	High-Performance Hybrid Phenyl-C61-Butyric Acid Methyl Ester/Cd ₃ P ₂ Nanowire Ultraviolet-Visible-Near Infrared Photodetectors. ACS Nano, 2014, 8, 787-796.	7.3	82
132	Electronic structure and exciton shifts in Sb-doped MoS ₂ monolayer. Npj 2D Materials and Applications, 2019, 3, .	3.9	82
133	Micro-Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. Small, 2021, 17, e2100804.	5.2	82
134	Fabrication of Mesoporous CdTe/ZnO@SiO ₂ Core/Shell Nanostructures with Tunable Dual Emission and Ultrasensitive Fluorescence Response to Metal Ions. Chemistry of Materials, 2009, 21, 68-77.	3.2	81
135	Spray-Painted Binder-Free SnSe Electrodes for High-Performance Energy Storage Devices. ChemSusChem, 2014, 7, 308-313.	3.6	81
136	Nanowire-assembled Co ₃ O ₄ @NiCo ₂ O ₄ architectures for high performance all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 24981-24988.	5.2	81
137	Wearable, Implantable, and Interventional Medical Devices Based on Smart Electronic Skins. Advanced Materials Technologies, 2021, 6, 2100107.	3.0	81
138	Large-scale synthesis of uniform urchin-like patterns of Bi ₂ S ₃ nanorods through a rapid polyol process. Chemical Physics Letters, 2003, 370, 334-337.	1.2	79
139	Photocatalytic H ₂ evolution under visible light irradiation on AgIn ₅ S ₈ photocatalyst. Journal of Physics and Chemistry of Solids, 2007, 68, 2317-2320.	1.9	79
140	Single-Crystalline p-Type Zn ₃ As ₂ Nanowires for Field-Effect Transistors and Visible-Light Photodetectors on Rigid and Flexible Substrates. Advanced Functional Materials, 2013, 23, 2681-2690.	7.8	79
141	Rational Synthesis of Branched CoMoO ₄ @CoNiO ₂ Core/Shell Nanowire Arrays for All-Solid-State Supercapacitors with Improved Performance. ACS Applied Materials & Interfaces, 2015, 7, 24204-24211.	4.0	79
142	Praseodymium-cerium oxide thin film cathodes: Study of oxygen reduction reaction kinetics. Journal of Electroceramics, 2012, 28, 62-69.	0.8	78
143	Performance enhancement of thin-film amorphous silicon solar cells with low cost nanodent plasmonic substrates. Energy and Environmental Science, 2013, 6, 2965.	15.6	77
144	Electrospun porous CuCo ₂ O ₄ nanowire network electrode for asymmetric supercapacitors. RSC Advances, 2015, 5, 96448-96454.	1.7	77

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145	Anisotropic photoresponse of layered 2D SnS-based near infrared photodetectors. Journal of Materials Chemistry C, 2017, 5, 11288-11293.	2.7	77
146	Self-Assembled Hierarchical Single-Crystalline β -SiC Nanoarchitectures. Crystal Growth and Design, 2007, 7, 35-38.	1.4	76
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