

Xudong Wang

List of Publications by Year in descending order

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154
papers

20,073
citations

13865

67
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10158

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159
all docs

159
docs citations

159
times ranked

20488
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct-Current Nanogenerator Driven by Ultrasonic Waves. <i>Science</i> , 2007, 316, 102-105.	12.6	2,065
2	Microfibreâ€“nanowire hybrid structure for energy scavenging. <i>Nature</i> , 2008, 451, 809-813.	27.8	1,480
3	Large-Scale Hexagonal-Patterned Growth of Aligned ZnO Nanorods for Nano-optoelectronics and Nanosensor Arrays. <i>Nano Letters</i> , 2004, 4, 423-426.	9.1	1,477
4	Piezoelectric Field Effect Transistor and Nanoforce Sensor Based on a Single ZnO Nanowire. <i>Nano Letters</i> , 2006, 6, 2768-2772.	9.1	983
5	One-Dimensional Titanium Dioxide Nanomaterials: Nanowires, Nanorods, and Nanobelts. <i>Chemical Reviews</i> , 2014, 114, 9346-9384.	47.7	601
6	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800848.	3.7	476
7	Controlled Replication of Butterfly Wings for Achieving Tunable Photonic Properties. <i>Nano Letters</i> , 2006, 6, 2325-2331.	9.1	475
8	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019, 62, 275-281.	16.0	455
9	H ₂ V ₃ O ₈ Nanowire/Graphene Electrodes for Aqueous Rechargeable Zinc Ion Batteries with High Rate Capability and Large Capacity. <i>Advanced Energy Materials</i> , 2018, 8, 1800144.	19.5	427
10	Piezoelectric nanogeneratorsâ€“Harvesting ambient mechanical energy at the nanometer scale. <i>Nano Energy</i> , 2012, 1, 13-24.	16.0	410
11	Spongeâ€“Like Piezoelectric Polymer Films for Scalable and Integratable Nanogenerators and Selfâ€“Powered Electronic Systems. <i>Advanced Energy Materials</i> , 2014, 4, 1301624.	19.5	326
12	Large-Scale Synthesis of Six-Nanometer-Wide ZnO Nanobelts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8773-8777.	2.6	295
13	Highâ€“Performance Integrated ZnO Nanowire UV Sensors on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2011, 21, 4464-4469.	14.9	293
14	PVDF microbelts for harvesting energy from respiration. <i>Energy and Environmental Science</i> , 2011, 4, 4508.	30.8	287
15	Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting in TiO ₂ â€“BaTiO ₃ Coreâ€“Shell Nanowire Photoanodes. <i>Nano Letters</i> , 2015, 15, 7574-7580.	9.1	280
16	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. <i>Journal of Materials Chemistry</i> , 2007, 17, 711.	6.7	261
17	Piezopotentialâ€“Driven Redox Reactions at the Surface of Piezoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5962-5966.	13.8	251
18	Growth of Uniformly Aligned ZnO Nanowire Heterojunction Arrays on GaN, AlN, and Al _{0.5} Ga _{0.5} N Substrates. <i>Journal of the American Chemical Society</i> , 2005, 127, 7920-7923.	13.7	244

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19	Effective weight control via an implanted self-powered vagus nerve stimulation device. Nature Communications, 2018, 9, 5349.	12.8	242
20	Effective Wound Healing Enabled by Discrete Alternative Electric Fields from Wearable Nanogenerators. ACS Nano, 2018, 12, 12533-12540.	14.6	234
21	Air-Flow-Driven Triboelectric Nanogenerators for Self-Powered Real-Time Respiratory Monitoring. ACS Nano, 2018, 12, 6156-6162.	14.6	229
22	Three-Dimensional High-Density Hierarchical Nanowire Architecture for High-Performance Photoelectrochemical Electrodes. Nano Letters, 2011, 11, 3413-3419.	9.1	223
23	Chemically Functionalized Natural Cellulose Materials for Effective Triboelectric Nanogenerator Development. Advanced Functional Materials, 2017, 27, 1700794.	14.9	223
24	Enhanced photoelectrochemical efficiency and stability using a conformal TiO ₂ film on a black silicon photoanode. Nature Energy, 2017, 2, .	39.5	217
25	Piezoelectric and Triboelectric Dual Effects in Mechanical-Energy Harvesting Using BaTiO ₃ /Polydimethylsiloxane Composite Film. ACS Applied Materials & Interfaces, 2016, 8, 34335-34341.	8.0	194
26	Enhanced photoresponse of ZnO nanorods-based self-powered photodetector by piezotronic interface engineering. Nano Energy, 2014, 9, 237-244.	16.0	193
27	Cellulose-Based Nanomaterials for Energy Applications. Small, 2017, 13, 1702240.	10.0	189
28	Triboelectric nanogenerators and power-boards from cellulose nanofibrils and recycled materials. Nano Energy, 2016, 30, 103-108.	16.0	185
29	Nanowire Structured Hybrid Cell for Concurrently Scavenging Solar and Mechanical Energies. Journal of the American Chemical Society, 2009, 131, 5866-5872.	13.7	182
30	Fundamental Analysis of Piezocatalysis Process on the Surfaces of Strained Piezoelectric Materials. Scientific Reports, 2013, 3, 2160.	3.3	169
31	Simultaneous Enhancement of Charge Separation and Hole Transportation in a TiO ₂ -SrTiO ₃ Core-Shell Nanowire Photoelectrochemical System. Advanced Materials, 2017, 29, 1701432.	21.0	165
32	Chemical modification of polymer surfaces for advanced triboelectric nanogenerator development. Extreme Mechanics Letters, 2016, 9, 514-530.	4.1	160
33	Sequential Infiltration Synthesis of Doped Polymer Films with Tunable Electrical Properties for Efficient Triboelectric Nanogenerator Development. Advanced Materials, 2015, 27, 4938-4944.	21.0	159
34	Integrated Nanogenerators in Biofluid. Nano Letters, 2007, 7, 2475-2479.	9.1	155
35	Coupling of piezoelectric effect with electrochemical processes. Nano Energy, 2015, 14, 296-311.	16.0	153
36	Single-electrode triboelectric nanogenerator for scavenging friction energy from rolling tires. Nano Energy, 2015, 15, 227-234.	16.0	151

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37	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO ₂ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 12239-12245.	8.0	147
38	Biocompatibility and in vivo operation of implantable mesoporous PVDF-based nanogenerators. Nano Energy, 2016, 27, 275-281.	16.0	141
39	High-performance pentacene field-effect transistors using Al ₂ O ₃ gate dielectrics prepared by atomic layer deposition (ALD). Organic Electronics, 2007, 8, 718-726.	2.6	133
40	Nanometre-thick single-crystalline nanosheets grown at the water/air interface. Nature Communications, 2016, 7, 10444.	12.8	133
41	Air-Stable Porous Fe ₂ N Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. Nano Letters, 2017, 17, 5740-5746.	9.1	132
42	Interface Engineering by Piezoelectric Potential in ZnO-Based Photoelectrochemical Anode. Nano Letters, 2011, 11, 5587-5593.	9.1	131
43	Wafer-scale heterostructured piezoelectric bio-organic thin films. Science, 2021, 373, 337-342.	12.6	129
44	Development of Lead Iodide Perovskite Solar Cells Using Three-Dimensional Titanium Dioxide Nanowire Architectures. ACS Nano, 2015, 9, 564-572.	14.6	125
45	Fundamental study of mechanical energy harvesting using piezoelectric nanostructures. Journal of Applied Physics, 2010, 108, .	2.5	124
46	Density-Controlled Growth of Aligned ZnO Nanowires Sharing a Common Contact: A Simple, Low-Cost, and Mask-Free Technique for Large-Scale Applications. Journal of Physical Chemistry B, 2006, 110, 7720-7724.	2.6	120
47	High-Performance Poly(vinylidene difluoride)/Dopamine Core/Shell Piezoelectric Nanofiber and Its Application for Biomedical Sensors. Advanced Materials, 2021, 33, e2006093.	21.0	114
48	Evolution of Hollow TiO ₂ Nanostructures via the Kirkendall Effect Driven by Cation Exchange with Enhanced Photoelectrochemical Performance. Nano Letters, 2014, 14, 2528-2535.	9.1	113
49	Band Structure Engineering at Heterojunction Interfaces via the Piezotronic Effect. Advanced Materials, 2012, 24, 4683-4691.	21.0	111
50	Highly Efficient Capillary Photoelectrochemical Water Splitting Using Cellulose Nanofiber-Templated TiO ₂ Photoanodes. Advanced Materials, 2014, 26, 2262-2267.	21.0	104
51	Growth of Rutile Titanium Dioxide Nanowires by Pulsed Chemical Vapor Deposition. Crystal Growth and Design, 2011, 11, 949-954.	3.0	98
52	Non-contact cylindrical rotating triboelectric nanogenerator for harvesting kinetic energy from hydraulics. Nano Research, 2020, 13, 1903-1907.	10.4	97
53	Piezoelectric-Polarization-Enhanced Photovoltaic Performance in Depleted-Heterojunction Quantum-Dot Solar Cells. Advanced Materials, 2013, 25, 916-921.	21.0	96
54	VS ₄ Nanoparticles Anchored on Graphene Sheets as a High-Rate and Stable Electrode Material for Sodium Ion Batteries. ChemSusChem, 2018, 11, 735-742.	6.8	93

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55	Self-Activated Electrical Stimulation for Effective Hair Regeneration via a Wearable Omnidirectional Pulse Generator. <i>ACS Nano</i> , 2019, 13, 12345-12356.	14.6	90
56	Degradable piezoelectric biomaterials for wearable and implantable bioelectronics. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100806.	11.5	87
57	Cl-Doped ZnO Nanowires with Metallic Conductivity and Their Application for High-Performance Photoelectrochemical Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1288-1293.	8.0	80
58	Growth of Titanium Dioxide Nanorods in 3D-Confined Spaces. <i>Nano Letters</i> , 2011, 11, 624-631.	9.1	79
59	Significant performance enhancement of ZnO photoanodes from Ni(OH) ₂ electrocatalyst nanosheets overcoating. <i>Nano Energy</i> , 2014, 6, 10-18.	16.0	76
60	Single-crystalline germanium nanomembrane photodetectors on foreign nanocavities. <i>Science Advances</i> , 2017, 3, e1602783.	10.3	76
61	Two-dimensional nonlayered materials for electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 3993-4016.	30.8	76
62	All-Textile Triboelectric Generator Compatible with Traditional Textile Process. <i>Advanced Materials Technologies</i> , 2016, 1, 1600147.	5.8	75
63	Wearable and Implantable Electroceuticals for Therapeutic Electrostimulations. <i>Advanced Science</i> , 2021, 8, 2004023.	11.2	73
64	Piezoelectric Nanogenerators for Self-Powered Nanodevices. <i>IEEE Pervasive Computing</i> , 2008, 7, 49-55.	1.3	72
65	Surface-Plasmon-Resonance-Enhanced Photoelectrochemical Water Splitting from Au-Nanoparticle-Decorated 3D TiO ₂ Nanorod Architectures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12071-12079.	3.1	72
66	A self-powered implantable and bioresorbable electrostimulation device for biofeedback bone fracture healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	71
67	Self-attraction among aligned Au/ZnO nanorods under electron beam. <i>Applied Physics Letters</i> , 2005, 86, 013111.	3.3	69
68	Mesoporous Piezoelectric Polymer Composite Films with Tunable Mechanical Modulus for Harvesting Energy from Liquid Pressure Fluctuation. <i>Advanced Functional Materials</i> , 2016, 26, 6760-6765.	14.9	69
69	Research Update: Materials design of implantable nanogenerators for biomechanical energy harvesting. <i>APL Materials</i> , 2017, 5, .	5.1	68
70	Piezotronic-Enhanced Photoelectrochemical Reactions in Ni(OH) ₂ -Decorated ZnO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3410-3416.	4.6	67
71	Study of long-term biocompatibility and bio-safety of implantable nanogenerators. <i>Nano Energy</i> , 2018, 51, 728-735.	16.0	67
72	Hybrid graphene@MoS ₂ @TiO ₂ microspheres for use as a high performance negative electrode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3667-3674.	10.3	66

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73	Implementation of ferroelectric materials in photocatalytic and photoelectrochemical water splitting. <i>Nanoscale Horizons</i> , 2020, 5, 1174-1187.	8.0	65
74	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. <i>ACS Nano</i> , 2018, 12, 4903-4908.	14.6	63
75	Large-Size Lifiable Inverted-Nanobowl Sheets as Reusable Masks for Nanolithography. <i>Nano Letters</i> , 2005, 5, 1784-1788.	9.1	61
76	Respiration-driven triboelectric nanogenerators for biomedical applications. <i>EcoMat</i> , 2020, 2, e12045.	11.9	58
77	Hierarchical TiO ₂ @Si nanowire architecture with photoelectrochemical activity under visible light illumination. <i>Energy and Environmental Science</i> , 2012, 5, 7918.	30.8	57
78	Mechanisms in the solution growth of free-standing two-dimensional inorganic nanomaterials. <i>Nanoscale</i> , 2014, 6, 6398.	5.6	57
79	Implanted Battery-Free Direct-Current Micro-Power Supply from in Vivo Breath Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42030-42038.	8.0	54
80	Wafer-level Patterned and Aligned Polymer Nanowire/Micro- and Nanotube Arrays on any Substrate. <i>Advanced Materials</i> , 2009, 21, 2072-2076.	21.0	52
81	Piezotronic modulations in electro- and photochemical catalysis. <i>MRS Bulletin</i> , 2018, 43, 946-951.	3.5	52
82	Nanoparticle-Decorated Ultrathin La ₂ O ₃ Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , 2020, 12, 49.	27.0	51
83	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and Intrinsic Ge Self-Passivation by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2018, 12, 6748-6755.	14.6	50
84	Electron Microscopy Observation of TiO ₂ Nanocrystal Evolution in High-Temperature Atomic Layer Deposition. <i>Nano Letters</i> , 2013, 13, 5727-5734.	9.1	49
85	Multifunctional Artificial Artery from Direct 3D Printing with Built-in Ferroelectricity and Tissue-matching Modulus for Real-time Sensing and Occlusion Monitoring. <i>Advanced Functional Materials</i> , 2020, 30, 2002868.	14.9	46
86	Effective anti-biofouling enabled by surface electric disturbance from water wave-driven nanogenerator. <i>Nano Energy</i> , 2019, 57, 558-565.	16.0	45
87	Piezotronics in Photoelectrochemistry. <i>Advanced Materials</i> , 2018, 30, e1800154.	21.0	44
88	Wedding Cake Growth Mechanism in One-Dimensional and Two-Dimensional Nanostructure Evolution. <i>Nano Letters</i> , 2015, 15, 7766-7772.	9.1	43
89	Surface Gradient Ti-Doped MnO ₂ Nanowires for High-Rate and Long-Life Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44376-44384.	8.0	41
90	Substrate-Free Self-Assembly Approach toward Large-Area Nanomembranes. <i>ACS Nano</i> , 2012, 6, 2602-2609.	14.6	38

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91	Nitrogen Doped 3D Titanium Dioxide Nanorods Architecture with Significantly Enhanced Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4397-4405.	3.1	37
92	Energy Harvesting Floor from Commercial Cellulosic Materials for a Self-Powered Wireless Transmission Sensor System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5133-5141.	8.0	37
93	Metastable Intermediates in Amorphous Titanium Oxide: A Hidden Role Leading to Ultra-Stable Photoanode Protection. <i>Nano Letters</i> , 2018, 18, 5335-5342.	9.1	36
94	Cellulose nanofiber-templated three-dimension TiO ₂ hierarchical nanowire network for photoelectrochemical photoanode. <i>Nanotechnology</i> , 2014, 25, 504005.	2.6	34
95	Nature Degradable, Flexible, and Transparent Conductive Substrates from Green and Earth-Abundant Materials. <i>Scientific Reports</i> , 2017, 7, 4936.	3.3	34
96	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti ₃ C ₂ Ti _x MXene Intermediate Layer. <i>Advanced Functional Materials</i> , 2021, 31, 2010987.	14.9	33
97	Prevention of Hepatic Ischemia-Reperfusion Injury by Carbohydrate-Derived Nanoantioxidants. <i>Nano Letters</i> , 2020, 20, 6510-6519.	9.1	32
98	Piezoelectric Nanocellulose Thin Film with Large-Scale Vertical Crystal Alignment. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26399-26404.	8.0	32
99	Wafer-scale synthesis of ultrathin CoO nanosheets with enhanced electrochemical catalytic properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9060-9066.	10.3	31
100	A wafer-scale 1 nm Ni(OH) ₂ nanosheet with superior electrocatalytic activity for the oxygen evolution reaction. <i>Nanoscale</i> , 2018, 10, 5054-5059.	5.6	31
101	Massive Vacancy Concentration Yields Strong Room-Temperature Ferromagnetism in Two-Dimensional ZnO. <i>Nano Letters</i> , 2019, 19, 7085-7092.	9.1	31
102	Atomic layer deposition in the development of supercapacitor and lithium-ion battery devices. <i>Carbon</i> , 2021, 179, 299-326.	10.3	31
103	Patterning at the 10 nanometer length scale using a strongly segregating block copolymer thin film and vapor phase infiltration of inorganic precursors. <i>Nanoscale</i> , 2016, 8, 11595-11601.	5.6	29
104	Ionic Layer Epitaxy of Nanometer-Thick Palladium Nanosheets with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2018, 30, 3308-3314.	6.7	29
105	Quasi-Two-Dimensional Earth-Abundant Bimetallic Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Energy Letters</i> , 2021, 6, 3367-3375.	17.4	29
106	Nanogenerator for determination of acoustic power in ultrasonic reactors. <i>Ultrasonics Sonochemistry</i> , 2021, 78, 105718.	8.2	29
107	Memristive Behavior Enabled by Amorphous-Crystalline 2D Oxide Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2000801.	21.0	26
108	Output of an ultrasonic wave-driven nanogenerator in a confined tube. <i>Nano Research</i> , 2009, 2, 177-182.	10.4	25

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109	Tailored TiO ₂ Protection Layer Enabled Efficient and Stable Microdome Structured p-GaAs Photoelectrochemical Cathodes. <i>Advanced Energy Materials</i> , 2020, 10, 1902985.	19.5	25
110	Three-Dimensional Kelvin Probe Microscopy for Characterizing In-Plane Piezoelectric Potential of Laterally Deflected ZnO Micro-Nanowires. <i>Advanced Functional Materials</i> , 2012, 22, 652-660.	14.9	24
111	Unit Cell Level Thickness Control of Single-Crystalline Zinc Oxide Nanosheets Enabled by Electrical Double-Layer Confinement. <i>Langmuir</i> , 2017, 33, 7708-7714.	3.5	24
112	A Rigid-Flexible Protecting Film with Surface Pits Structure for Dendrite-Free and High-Performance Lithium Metal Anode. <i>Nano Letters</i> , 2021, 21, 7063-7069.	9.1	24
113	Hierarchical Branched Vanadium Oxide Nanorod@Si Nanowire Architecture for High Performance Supercapacitors. <i>Small</i> , 2017, 13, 1603076.	10.0	23
114	Phase transformation, charge transfer, and ionic diffusion of Na ₄ MnV(PO ₄) ₃ in sodium-ion batteries: a combined first-principles and experimental study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17477-17486.	10.3	23
115	Self-powered liquid chemical sensors based on solid-liquid contact electrification. <i>Analyst</i> , The, 2021, 146, 1656-1662.	3.5	22
116	Bioinspired Synthesis of Quasi-Two-Dimensional Monocrystalline Oxides. <i>Chemistry of Materials</i> , 2019, 31, 9040-9048.	6.7	21
117	Bulk Ferroelectric Metamaterial with Enhanced Piezoelectric and Biomimetic Mechanical Properties from Additive Manufacturing. <i>ACS Nano</i> , 2021, 15, 14903-14914.	14.6	21
118	Directed self-assembly of block copolymer films on atomically-thin graphene chemical patterns. <i>Scientific Reports</i> , 2016, 6, 31407.	3.3	20
119	Long-term in vivo operation of implanted cardiac nanogenerators in swine. <i>Nano Energy</i> , 2021, 90, 106507.	16.0	19
120	High-density platinum nanoparticle-decorated titanium dioxide nanofiber networks for efficient capillary photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11672-11679.	10.3	18
121	Spontaneous Phase Transformation and Exfoliation of Rectangular Single-Crystal Zinc Hydroxy Dodecylsulfate Nanomembranes. <i>ACS Nano</i> , 2013, 7, 6007-6016.	14.6	17
122	Evolution of titanium dioxide one-dimensional nanostructures from surface-reaction-limited pulsed chemical vapor deposition. <i>Journal of Materials Research</i> , 2013, 28, 270-279.	2.6	17
123	Kinetics-Driven Crystal Facets Evolution at the Tip of Nanowires: A New Implementation of the Ostwald-Lussac Law. <i>Nano Letters</i> , 2016, 16, 7078-7084.	9.1	17
124	In vitro study of enhanced photodynamic cancer cell killing effect by nanometer-thick gold nanosheets. <i>Nano Research</i> , 2020, 13, 3217-3223.	10.4	17
125	Polymer-based Nanogenerator for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 41-54.	2.6	17
126	Accelerated complete human skin architecture restoration after wounding by nanogenerator-driven electrostimulation. <i>Journal of Nanobiotechnology</i> , 2021, 19, 280.	9.1	17

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127	Materials Perspectives for Self-Powered Cardiac Implantable Electronic Devices toward Clinical Translation. <i>Accounts of Materials Research</i> , 2021, 2, 739-750.	11.7	16
128	Computation of Electronic Energy Band Diagrams for Piezotronic Semiconductor and Electrochemical Systems. <i>Advanced Electronic Materials</i> , 2018, 4, 1700395.	5.1	15
129	Morphological control in the adaptive ionic layer epitaxy of ZnO nanosheets. <i>Extreme Mechanics Letters</i> , 2016, 7, 64-70.	4.1	14
130	Decoupling the charge collecting and screening effects in piezotronics-regulated photoelectrochemical systems by using graphene as the charge collector. <i>Nano Energy</i> , 2018, 48, 377-382.	16.0	14
131	AlGaAs/Si dual-junction tandem solar cells by epitaxial lift-off and print-transfer-assisted direct bonding. <i>Energy Science and Engineering</i> , 2018, 6, 47-55.	4.0	12
132	Influences of screw dislocations on electroluminescence of AlGaIn/AlN-based UVC LEDs. <i>AIP Advances</i> , 2019, 9, .	1.3	11
133	Mapping of strain-piezopotential relationship along bent zinc oxide microwires. <i>Nano Energy</i> , 2013, 2, 1225-1231.	16.0	10
134	Bioresorbable Primary Battery Anodes Built on Core-Double-Shell Zinc Microparticle Networks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14275-14282.	8.0	10
135	Mesoporous Ultrathin In ₂ O ₃ Nanosheet Cocatalysts on a Silicon Nanowire Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, , .	8.0	10
136	Inverted Wedding Cake Growth Operated by the Ehrlich-Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2217-2221.	13.8	9
137	Semiconductor Nanowires for Energy Harvesting. <i>Semiconductors and Semimetals</i> , 2016, 94, 297-368.	0.7	9
138	Spatial modeling for refining and predicting surface potential mapping with enhanced resolution. <i>Nanoscale</i> , 2013, 5, 921.	5.6	8
139	Calculation of the piezoelectric and flexoelectric effects in nanowires using a decoupled finite element analysis method. <i>Journal of Applied Physics</i> , 2016, 119, 154104.	2.5	8
140	Enhanced Ferromagnetism from Organic-Cerium Oxide Hybrid Ultrathin Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44601-44608.	8.0	8
141	Atomic Layer Deposition for Advanced Electrode Design in Photoelectrochemical and Triboelectric Systems. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600835.	3.7	7
142	Nucleation Kinetics and Structure Evolution of Quasi-Two-Dimensional ZnO at the Air-Water Interface: An <i>In Situ</i> Time-Resolved Grazing Incidence X-ray Scattering Study. <i>Nano Letters</i> , 2022, 22, 3040-3046.	9.1	7
143	Stretchable Encapsulation Materials with High Dynamic Water Resistivity and Tissue-Matching Elasticity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18935-18943.	8.0	7
144	Mesoporous carbon nanofiber network derived from agarose for supercapacitor electrode. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	5

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145	Confined Shear Alignment of Ultrathin Films of Cellulose Nanocrystals. ACS Applied Bio Materials, 2021, 4, 7961-7966.	4.6	5
146	Photoelectrodes: Highly Efficient Capillary Photoelectrochemical Water Splitting Using Cellulose Nanofiberâ€Templated TiO₂ Photoanodes (Adv. Mater. 14/2014). Advanced Materials, 2014, 26, 2110-2110.	21.0	4
147	Inverted Wedding Cake Growth Operated by the Ehrlichâ€Schwoebel Barrier in Twoâ€Dimensional Nanocrystal Evolution. Angewandte Chemie, 2016, 128, 2257-2261.	2.0	3
148	Microwave TFTs Made of MOCVD ZnO With ALD Al2O3Gate Dielectric. IEEE Journal of the Electron Devices Society, 2016, 4, 55-59.	2.1	2
149	Thickness-Dependent Piezoelectric Property from Quasi-Two-Dimensional Zinc Oxide Nanosheets with Unit Cell Resolution. Research, 2021, 2021, 1519340.	5.7	2
150	The morphology of cast zinc-based alloy reinforced by spheroidal silicon phase and its wear resistance. International Journal of Cast Metals Research, 1998, 11, 39-42.	1.0	1
151	Fabrication and Characterization of Si/GaN P Heterojunction Photodetectors. , 2012, , .		0
152	Level-expansion: A statistical sequential design methodology with application to nanomaterial synthesis. Journal of Quality Technology, 2020, 52, 97-107.	2.5	0
153	Piezoelectric Nanogenerators for Mechanical Energy Harvesting. International Symposium on Microelectronics, 2011, 2011, 000367-000375.	0.0	0
154	Germanium photodiodes on pyramidal textured surface by Metal-Assisted Chemical Etching. , 2019, , .		0