

Xudong Wang

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153
papers

15,739
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59
h-index

125
g-index

159
ext. papers

17,855
ext. citations

12.9
avg, IF

7.02
L-index

#	Paper	IF	Citations
153	Direct-current nanogenerator driven by ultrasonic waves. <i>Science</i> , 2007 , 316, 102-5	33.3	1837
152	Large-Scale Hexagonal-Patterned Growth of Aligned ZnO Nanorods for Nano-optoelectronics and Nanosensor Arrays. <i>Nano Letters</i> , 2004 , 4, 423-6	11.5	1371
151	Microfibre-nanowire hybrid structure for energy scavenging. <i>Nature</i> , 2008 , 451, 809-13	50.4	1312
150	Piezoelectric field effect transistor and nanoforce sensor based on a single ZnO nanowire. <i>Nano Letters</i> , 2006 , 6, 2768-72	11.5	856
149	One-dimensional titanium dioxide nanomaterials: nanowires, nanorods, and nanobelts. <i>Chemical Reviews</i> , 2014 , 114, 9346-84	68.1	504
148	Controlled replication of butterfly wings for achieving tunable photonic properties. <i>Nano Letters</i> , 2006 , 6, 2325-31	11.5	442
147	Piezoelectric nanogenerators harvesting ambient mechanical energy at the nanometer scale. <i>Nano Energy</i> , 2012 , 1, 13-24	17.1	334
146	H2V3O8 Nanowire/Graphene Electrodes for Aqueous Rechargeable Zinc Ion Batteries with High Rate Capability and Large Capacity. <i>Advanced Energy Materials</i> , 2018 , 8, 1800144	21.8	302
145	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800848	4.6	276
144	Sponge-Like Piezoelectric Polymer Films for Scalable and Integratable Nanogenerators and Self-Powered Electronic Systems. <i>Advanced Energy Materials</i> , 2014 , 4, 1301624	21.8	270
143	Large-Scale Synthesis of Six-Nanometer-Wide ZnO Nanobelts. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8773-8777	3.4	268
142	PVDF microbelts for harvesting energy from respiration. <i>Energy and Environmental Science</i> , 2011 , 4, 4508	35.4	259
141	High-Performance Integrated ZnO Nanowire UV Sensors on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2011 , 21, 4464-4469	15.6	259
140	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. <i>Journal of Materials Chemistry</i> , 2007 , 17, 711		236
139	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019 , 62, 275-281	17.1	234
138	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, 7920-3	16.4	228
137	Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting in TiO ₂ -BaTiO ₃ Core-Shell Nanowire Photoanodes. <i>Nano Letters</i> , 2015 , 15, 7574-80	11.5	222

136	Three-dimensional high-density hierarchical nanowire architecture for high-performance photoelectrochemical electrodes. <i>Nano Letters</i> , 2011 , 11, 3413-9	11.5	210
135	Enhanced photoelectrochemical efficiency and stability using a conformal TiO ₂ film on a black silicon photoanode. <i>Nature Energy</i> , 2017 , 2,	62.3	186
134	Piezopotential-driven redox reactions at the surface of piezoelectric materials. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5962-6	16.4	178
133	Enhanced photoresponse of ZnO nanorods-based self-powered photodetector by piezotronic interface engineering. <i>Nano Energy</i> , 2014 , 9, 237-244	17.1	172
132	Nanowire structured hybrid cell for concurrently scavenging solar and mechanical energies. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5866-72	16.4	151
131	Air-Flow-Driven Triboelectric Nanogenerators for Self-Powered Real-Time Respiratory Monitoring. <i>ACS Nano</i> , 2018 , 12, 6156-6162	16.7	148
130	Chemically Functionalized Natural Cellulose Materials for Effective Triboelectric Nanogenerator Development. <i>Advanced Functional Materials</i> , 2017 , 27, 1700794	15.6	147
129	Effective weight control via an implanted self-powered vagus nerve stimulation device. <i>Nature Communications</i> , 2018 , 9, 5349	17.4	142
128	Integrated nanogenerators in biofluid. <i>Nano Letters</i> , 2007 , 7, 2475-9	11.5	138
127	Effective Wound Healing Enabled by Discrete Alternative Electric Fields from Wearable Nanogenerators. <i>ACS Nano</i> , 2018 , 12, 12533-12540	16.7	137
126	Piezoelectric and Triboelectric Dual Effects in Mechanical-Energy Harvesting Using BaTiO/Polydimethylsiloxane Composite Film. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34335-34347	9.5	136
125	Cellulose-Based Nanomaterials for Energy Applications. <i>Small</i> , 2017 , 13, 1702240	11	130
124	High-performance pentacene field-effect transistors using Al ₂ O ₃ gate dielectrics prepared by atomic layer deposition (ALD). <i>Organic Electronics</i> , 2007 , 8, 718-726	3.5	125
123	Single-electrode triboelectric nanogenerator for scavenging friction energy from rolling tires. <i>Nano Energy</i> , 2015 , 15, 227-234	17.1	124
122	Sequential Infiltration Synthesis of Doped Polymer Films with Tunable Electrical Properties for Efficient Triboelectric Nanogenerator Development. <i>Advanced Materials</i> , 2015 , 27, 4938-44	24	124
121	Triboelectric nanogenerators and power-boards from cellulose nanofibrils and recycled materials. <i>Nano Energy</i> , 2016 , 30, 103-108	17.1	121
120	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO ₂ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12239-45	9.5	116
119	Simultaneous Enhancement of Charge Separation and Hole Transportation in a TiO ₂ -SrTiO ₃ Core-Shell Nanowire Photoelectrochemical System. <i>Advanced Materials</i> , 2017 , 29, 1701432	24	115

118	Development of lead iodide perovskite solar cells using three-dimensional titanium dioxide nanowire architectures. <i>ACS Nano</i> , 2015 , 9, 564-72	16.7	113
117	Density-controlled growth of aligned ZnO nanowires sharing a common contact: a simple, low-cost, and mask-free technique for large-scale applications. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7720-4	3.4	111
116	Air-Stable Porous FeN Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , 2017 , 17, 5740-5746	11.5	110
115	Interface engineering by piezoelectric potential in ZnO-based photoelectrochemical anode. <i>Nano Letters</i> , 2011 , 11, 5587-93	11.5	108
114	Chemical modification of polymer surfaces for advanced triboelectric nanogenerator development. <i>Extreme Mechanics Letters</i> , 2016 , 9, 514-530	3.9	107
113	Coupling of piezoelectric effect with electrochemical processes. <i>Nano Energy</i> , 2015 , 14, 296-311	17.1	107
112	Biocompatibility and in vivo operation of implantable mesoporous PVDF-based nanogenerators. <i>Nano Energy</i> , 2016 , 27, 275-281	17.1	106
111	Evolution of hollow TiO ₂ nanostructures via the Kirkendall effect driven by cation exchange with enhanced photoelectrochemical performance. <i>Nano Letters</i> , 2014 , 14, 2528-35	11.5	104
110	Fundamental analysis of piezocatalysis process on the surfaces of strained piezoelectric materials. <i>Scientific Reports</i> , 2013 , 3, 2160	4.9	101
109	Fundamental study of mechanical energy harvesting using piezoelectric nanostructures. <i>Journal of Applied Physics</i> , 2010 , 108, 034309	2.5	101
108	Nanometre-thick single-crystalline nanosheets grown at the water-air interface. <i>Nature Communications</i> , 2016 , 7, 10444	17.4	100
107	Highly efficient capillary photoelectrochemical water splitting using cellulose nanofiber-templated TiO ₂ photoanodes. <i>Advanced Materials</i> , 2014 , 26, 2262-7, 2110	24	90
106	Growth of Rutile Titanium Dioxide Nanowires by Pulsed Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2011 , 11, 949-954	3.5	82
105	Piezoelectric-polarization-enhanced photovoltaic performance in depleted-heterojunction quantum-dot solar cells. <i>Advanced Materials</i> , 2013 , 25, 916-21	24	81
104	Band structure engineering at heterojunction interfaces via the piezotronic effect. <i>Advanced Materials</i> , 2012 , 24, 4683-91	24	80
103	Growth of titanium dioxide nanorods in 3D-confined spaces. <i>Nano Letters</i> , 2011 , 11, 624-31	11.5	77
102	Cl-doped ZnO nanowires with metallic conductivity and their application for high-performance photoelectrochemical electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1288-93	9.5	69
101	Significant performance enhancement of ZnO photoanodes from Ni(OH) ₂ electrocatalyst nanosheets overcoating. <i>Nano Energy</i> , 2014 , 6, 10-18	17.1	66

100	Self-attraction among aligned Au/ZnO nanorods under electron beam. <i>Applied Physics Letters</i> , 2005 , 86, 013111	3.4	66
99	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	3.8	63
98	VS Nanoparticles Anchored on Graphene Sheets as a High-Rate and Stable Electrode Material for Sodium Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 735-742	8.3	63
97	. <i>IEEE Pervasive Computing</i> , 2008 , 7, 49-55	1.3	62
96	All-Textile Triboelectric Generator Compatible with Traditional Textile Process. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600147	6.8	59
95	Large-size liftable inverted-nanobowl sheets as reusable masks for nanolithography. <i>Nano Letters</i> , 2005 , 5, 1784-8	11.5	59
94	Hierarchical TiO ₂ /Bi nanowire architecture with photoelectrochemical activity under visible light illumination. <i>Energy and Environmental Science</i> , 2012 , 5, 7918	35.4	57
93	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	13	56
92	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 ^{15.6}	15.6	55
91	Piezotronic-Enhanced Photoelectrochemical Reactions in Ni(OH) ₂ -Decorated ZnO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3410-6	6.4	52
90	High-Performance Poly(vinylidene difluoride)/Dopamine Core/Shell Piezoelectric Nanofiber and Its Application for Biomedical Sensors. <i>Advanced Materials</i> , 2021 , 33, e2006093	24	52
89	Research Update: Materials design of implantable nanogenerators for biomechanical energy harvesting. <i>APL Materials</i> , 2017 , 5,	5.7	51
88	Self-Activated Electrical Stimulation for Effective Hair Regeneration a Wearable Omnidirectional Pulse Generator. <i>ACS Nano</i> , 2019 , 13, 12345-12356	16.7	51
87	Non-contact cylindrical rotating triboelectric nanogenerator for harvesting kinetic energy from hydraulics. <i>Nano Research</i> , 2020 , 13, 1903-1907	10	51
86	Single-crystalline germanium nanomembrane photodetectors on foreign nanocavities. <i>Science Advances</i> , 2017 , 3, e1602783	14.3	51
85	Wafer-Level Patterned and Aligned Polymer Nanowire/Micro- and Nanotube Arrays on any Substrate. <i>Advanced Materials</i> , 2009 , 21, 2072-2076	24	50
84	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. <i>ACS Nano</i> , 2018 , 12, 4903-4908	16.7	46
83	Mechanisms in the solution growth of free-standing two-dimensional inorganic nanomaterials. <i>Nanoscale</i> , 2014 , 6, 6398-414	7.7	46

82	Study of Long-Term Biocompatibility and Bio-Safety of Implantable Nanogenerators. <i>Nano Energy</i> , 2018 , 51, 728-735	17.1	42
81	Electron microscopy observation of TiO ₂ nanocrystal evolution in high-temperature atomic layer deposition. <i>Nano Letters</i> , 2013 , 13, 5727-34	11.5	41
80	Wedding Cake Growth Mechanism in One-Dimensional and Two-Dimensional Nanostructure Evolution. <i>Nano Letters</i> , 2015 , 15, 7766-72	11.5	36
79	Nitrogen Doped 3D Titanium Dioxide Nanorods Architecture with Significantly Enhanced Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4397-4405	3.8	36
78	Substrate-free self-assembly approach toward large-area nanomembranes. <i>ACS Nano</i> , 2012 , 6, 2602-9	16.7	35
77	Piezotronic modulations in electro- and photochemical catalysis. <i>MRS Bulletin</i> , 2018 , 43, 946-951	3.2	35
76	Degradable Piezoelectric Biomaterials for Wearable and Implantable Bioelectronics. <i>Current Opinion in Solid State and Materials Science</i> , 2020 , 24,	12	34
75	Wafer-scale heterostructured piezoelectric bio-organic thin films. <i>Science</i> , 2021 , 373, 337-342	33.3	33
74	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and Ge Self-Passivation by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2018 , 12, 6748-6755	16.7	32
73	Two-dimensional nonlayered materials for electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 3993-4016	35.4	31
72	Effective anti-biofouling enabled by surface electric disturbance from water wave-driven nanogenerator. <i>Nano Energy</i> , 2019 , 57, 558-565	17.1	31
71	Implanted Battery-Free Direct-Current Micro-Power Supply from in Vivo Breath Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42030-42038	9.5	31
70	Piezotronics in Photo-Electrochemistry. <i>Advanced Materials</i> , 2018 , 30, e1800154	24	30
69	Cellulose nanofiber-templated three-dimension TiO ₂ hierarchical nanowire network for photoelectrochemical photoanode. <i>Nanotechnology</i> , 2014 , 25, 504005	3.4	30
68	Surface Gradient Ti-Doped MnO Nanowires for High-Rate and Long-Life Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44376-44384	9.5	29
67	Nature Degradable, Flexible, and Transparent Conductive Substrates from Green and Earth-Abundant Materials. <i>Scientific Reports</i> , 2017 , 7, 4936	4.9	28
66	Implementation of ferroelectric materials in photocatalytic and photoelectrochemical water splitting. <i>Nanoscale Horizons</i> , 2020 , 5, 1174-1187	10.8	26
65	A wafer-scale 1 nm Ni(OH) nanosheet with superior electrocatalytic activity for the oxygen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 5054-5059	7.7	25

64	Metastable Intermediates in Amorphous Titanium Oxide: A Hidden Role Leading to Ultra-Stable Photoanode Protection. <i>Nano Letters</i> , 2018 , 18, 5335-5342	11.5	25
63	Output of an ultrasonic wave-driven nanogenerator in a confined tube. <i>Nano Research</i> , 2009 , 2, 177-182	10	24
62	Wearable and Implantable Electroceuticals for Therapeutic Electrostimulations. <i>Advanced Science</i> , 2021 , 8, 2004023	13.6	24
61	Nanoparticle-Decorated Ultrathin LaO Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , 2020 , 12, 49	19.5	23
60	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	15.6	22
59	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	15.6	22
58	Ionic Layer Epitaxy of Nanometer-Thick Palladium Nanosheets with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2018 , 30, 3308-3314	9.6	21
57	Respiration-driven triboelectric nanogenerators for biomedical applications. <i>EcoMat</i> , 2020 , 2, e12045	9.4	21
56	Wafer-scale synthesis of ultrathin CoO nanosheets with enhanced electrochemical catalytic properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9060-9066	13	20
55	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, 11595-601	7.7	20
54	Massive Vacancy Concentration Yields Strong Room-Temperature Ferromagnetism in Two-Dimensional ZnO. <i>Nano Letters</i> , 2019 , 19, 7085-7092	11.5	18
53	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,	11.5	18
52	Tailored TiO ₂ Protection Layer Enabled Efficient and Stable Microdome Structured p-GaAs Photoelectrochemical Cathodes. <i>Advanced Energy Materials</i> , 2020 , 10, 1902985	21.8	17
51	Hierarchical Branched Vanadium Oxide Nanorod@Si Nanowire Architecture for High Performance Supercapacitors. <i>Small</i> , 2017 , 13, 1603076	11	17
50	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	2.5	17
49	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	13	17
48	Directed self-assembly of block copolymer films on atomically-thin graphene chemical patterns. <i>Scientific Reports</i> , 2016 , 6, 31407	4.9	16
47	Piezopotential-Driven Redox Reactions at the Surface of Piezoelectric Materials. <i>Angewandte Chemie</i> , 2012 , 124, 6064-6068	3.6	16

46	Piezoelectric Nanocellulose Thin Film with Large-Scale Vertical Crystal Alignment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26399-26404	9.5	15
45	Unit Cell Level Thickness Control of Single-Crystalline Zinc Oxide Nanosheets Enabled by Electrical Double-Layer Confinement. <i>Langmuir</i> , 2017 , 33, 7708-7714	4	15
44	Spontaneous phase transformation and exfoliation of rectangular single-crystal zinc hydroxy dodecylsulfate nanomembranes. <i>ACS Nano</i> , 2013 , 7, 6007-16	16.7	15
43	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	9.5	14
42	Memristive Behavior Enabled by Amorphous-Crystalline 2D Oxide Heterostructure. <i>Advanced Materials</i> , 2020 , 32, e2000801	24	12
41	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	11.5	12
40	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	13	11
39	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti ₃ C ₂ T _x MXene Intermediate Layer. <i>Advanced Functional Materials</i> , 2021 , 31, 2010987	15.6	11
38	Nanogenerator for determination of acoustic power in ultrasonic reactors. <i>Ultrasonics Sonochemistry</i> , 2021 , 78, 105718	8.9	10
37	Self-powered liquid chemical sensors based on solid-liquid contact electrification. <i>Analyst, The</i> , 2021 , 146, 1656-1662	5	10
36	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	3.4	9
35	Inverted Wedding Cake Growth Operated by the Ehrlich-Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2217-21	16.4	9
34	Influences of screw dislocations on electroluminescence of AlGaN/AlN-based UVC LEDs. <i>AIP Advances</i> , 2019 , 9, 085128	1.5	8
33	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	17.1	8
32	Bioinspired Synthesis of Quasi-Two-Dimensional Monocrystalline Oxides. <i>Chemistry of Materials</i> , 2019 , 31, 9040-9048	9.6	8
31	Prevention of Hepatic Ischemia-Reperfusion Injury by Carbohydrate-Derived Nanoantioxidants. <i>Nano Letters</i> , 2020 , 20, 6510-6519	11.5	8
30	Polymer-based Nanogenerator for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 41-54	2.2	7
29	Computation of Electronic Energy Band Diagrams for Piezotronic Semiconductor and Electrochemical Systems. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700395	6.4	7

28	Morphological control in the adaptive ionic layer epitaxy of ZnO nanosheets. <i>Extreme Mechanics Letters</i> , 2016 , 7, 64-70	3.9	7
27	Spatial modeling for refining and predicting surface potential mapping with enhanced resolution. <i>Nanoscale</i> , 2013 , 5, 921-6	7.7	7
26	Mapping of strainpiezopotential relationship along bent zinc oxide microwires. <i>Nano Energy</i> , 2013 , 2, 1225-1231	17.1	7
25	Atomic layer deposition in the development of supercapacitor and lithium-ion battery devices. <i>Carbon</i> , 2021 , 179, 299-326	10.4	6
24	Materials Perspectives for Self-Powered Cardiac Implantable Electronic Devices toward Clinical Translation.. <i>Accounts of Materials Research</i> , 2021 , 2, 739-750	7.5	6
23	study of enhanced photodynamic cancer cell killing effect by nanometer-thick gold nanosheets. <i>Nano Research</i> , 2020 , 13, 3217-3223	10	5
22	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	5
21	Quasi-Two-Dimensional Earth-Abundant Bimetallic Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Energy Letters</i> , 2021 , 6, 3367-3375	20.1	5
20	Accelerated complete human skin architecture restoration after wounding by nanogenerator-driven electrostimulation. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 280	9.4	5
19	Atomic Layer Deposition for Advanced Electrode Design in Photoelectrochemical and Triboelectric Systems. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600835	4.6	4
18	Semiconductor Nanowires for Energy Harvesting. <i>Semiconductors and Semimetals</i> , 2016 , 94, 297-368	0.6	4
17	Bioresorbable Primary Battery Anodes Built on Core-Double-Shell Zinc Microparticle Networks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14275-14282	9.5	4
16	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	11.5	4
15	Inverted Wedding Cake Growth Operated by the Ehrlich-Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution. <i>Angewandte Chemie</i> , 2016 , 128, 2257-2261	3.6	3
14	Enhanced Ferromagnetism from Organic-Cerium Oxide Hybrid Ultrathin Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44601-44608	9.5	3
13	Photoelectrodes: Highly Efficient Capillary Photoelectrochemical Water Splitting Using Cellulose Nanofiber-Templated TiO ₂ Photoanodes (Adv. Mater. 14/2014). <i>Advanced Materials</i> , 2014 , 26, 2110-2110 ²⁴	24	3
12	Bulk Ferroelectric Metamaterial with Enhanced Piezoelectric and Biomimetic Mechanical Properties from Additive Manufacturing. <i>ACS Nano</i> , 2021 , 15, 14903-14914	16.7	3
11	Long-term in vivo operation of implanted cardiac nanogenerators in swine. <i>Nano Energy</i> , 2021 , 90, 106507-106507	106507	3

10	Microwave TFTs Made of MOCVD ZnO With ALD Al ₂ O ₃ Gate Dielectric. <i>IEEE Journal of the Electron Devices Society</i> , 2016 , 4, 55-59	2.3	2
9	Confined Shear Alignment of Ultrathin Films of Cellulose Nanocrystals.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 7961-7966	4.1	2
8	Stretchable Encapsulation Materials with High Dynamic Water Resistivity and Tissue-Matching Elasticity.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
7	Piezoelectric and Piezotronic Effects in Energy Harvesting and Conversion 2013 , 89-132		1
6	Mesoporous Ultrathin InO Nanosheet Cocatalysts on a Silicon Nanowire Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
5	Thickness-Dependent Piezoelectric Property from Quasi-Two-Dimensional Zinc Oxide Nanosheets with Unit Cell Resolution. <i>Research</i> , 2021 , 2021, 1519340	7.8	1
4	Mesoporous carbon nanofiber network derived from agarose for supercapacitor electrode. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	1
3	The morphology of cast zinc-based alloy reinforced by spheroidal silicon phase and its wear resistance. <i>International Journal of Cast Metals Research</i> , 1998 , 11, 39-42	1	
2	Piezoelectric Nanogenerators for Mechanical Energy Harvesting. <i>International Symposium on Microelectronics</i> , 2011 , 2011, 000367-000375	0.2	
1	Level-expansion: A statistical sequential design methodology with application to nanomaterial synthesis. <i>Journal of Quality Technology</i> , 2020 , 52, 97-107	1.4	