

# Xudong Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7067211/xudong-wang-publications-by-year.pdf>

**Version:** 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

153  
papers

15,739  
citations

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	Stretchable Encapsulation Materials with High Dynamic Water Resistivity and Tissue-Matching Elasticity.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	2
152	Confined Shear Alignment of Ultrathin Films of Cellulose Nanocrystals.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 7961-7966	4.1	2
151	Mesoporous Ultrathin InO Nanosheet Cocatalysts on a Silicon Nanowire Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
150	Bioresorbable Primary Battery Anodes Built on Core-Double-Shell Zinc Microparticle Networks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14275-14282	9.5	4
149	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti3C2Tx MXene Intermediate Layer. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010987	15.6	11
148	Wafer-scale heterostructured piezoelectric bio-organic thin films. <i>Science</i> , <b>2021</b> , 373, 337-342	33.3	33
147	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> , <b>2021</b> , 118,	11.5	18
146	Atomic layer deposition in the development of supercapacitor and lithium-ion battery devices. <i>Carbon</i> , <b>2021</b> , 179, 299-326	10.4	6
145	High-Performance Poly(vinylidene difluoride)/Dopamine Core/Shell Piezoelectric Nanofiber and Its Application for Biomedical Sensors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006093	24	52
144	Wearable and Implantable Electroceuticals for Therapeutic Electrostimulations. <i>Advanced Science</i> , <b>2021</b> , 8, 2004023	13.6	24
143	Thickness-Dependent Piezoelectric Property from Quasi-Two-Dimensional Zinc Oxide Nanosheets with Unit Cell Resolution. <i>Research</i> , <b>2021</b> , 2021, 1519340	7.8	1
142	Materials Perspectives for Self-Powered Cardiac Implantable Electronic Devices toward Clinical Translation.. <i>Accounts of Materials Research</i> , <b>2021</b> , 2, 739-750	7.5	6
141	Bulk Ferroelectric Metamaterial with Enhanced Piezoelectric and Biomimetic Mechanical Properties from Additive Manufacturing. <i>ACS Nano</i> , <b>2021</b> , 15, 14903-14914	16.7	3
140	A Rigid-Flexible Protecting Film with Surface Pits Structure for Dendrite-Free and High-Performance Lithium Metal Anode. <i>Nano Letters</i> , <b>2021</b> , 21, 7063-7069	11.5	4
139	Quasi-Two-Dimensional Earth-Abundant Bimetallic Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3367-3375	20.1	5
138	Accelerated complete human skin architecture restoration after wounding by nanogenerator-driven electrostimulation. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 280	9.4	5
137	Nanogenerator for determination of acoustic power in ultrasonic reactors. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 78, 105718	8.9	10

136	Long-term in vivo operation of implanted cardiac nanogenerators in swine. <i>Nano Energy</i> , <b>2021</b> , 90, 106507-106507	17	106507
135	Energy Harvesting Floor from Commercial Cellulosic Materials for a Self-Powered Wireless Transmission Sensor System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5133-5141	9.5	14
134	Self-powered liquid chemical sensors based on solid-liquid contact electrification. <i>Analyst, The</i> , <b>2021</b> , 146, 1656-1662	5	10
133	Piezoelectric Nanocellulose Thin Film with Large-Scale Vertical Crystal Alignment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26399-26404	9.5	15
132	Implementation of ferroelectric materials in photocatalytic and photoelectrochemical water splitting. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1174-1187	10.8	26
131	Non-contact cylindrical rotating triboelectric nanogenerator for harvesting kinetic energy from hydraulics. <i>Nano Research</i> , <b>2020</b> , 13, 1903-1907	10	51
130	Nanoparticle-Decorated Ultrathin LaO Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 49	19.5	23
129	Degradable Piezoelectric Biomaterials for Wearable and Implantable Bioelectronics. <i>Current Opinion in Solid State and Materials Science</i> , <b>2020</b> , 24,	12	34
128	Polymer-based Nanogenerator for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 41-54	2.2	7
127	Tailored TiO <sub>2</sub> Protection Layer Enabled Efficient and Stable Microdome Structured p-GaAs Photoelectrochemical Cathodes. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902985	21.8	17
126	Memristive Behavior Enabled by Amorphous-Crystalline 2D Oxide Heterostructure. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000801	24	12
125	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> , <b>2020</b> , 30, 2002868	15.6	22
124	Respiration-driven triboelectric nanogenerators for biomedical applications. <i>EcoMat</i> , <b>2020</b> , 2, e12045	9.4	21
123	Prevention of Hepatic Ischemia-Reperfusion Injury by Carbohydrate-Derived Nanoantioxidants. <i>Nano Letters</i> , <b>2020</b> , 20, 6510-6519	11.5	8
122	Two-dimensional nonlayered materials for electrocatalysis. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3993-4016	35.4	31
121	study of enhanced photodynamic cancer cell killing effect by nanometer-thick gold nanosheets. <i>Nano Research</i> , <b>2020</b> , 13, 3217-3223	10	5
120	Phase transformation, charge transfer, and ionic diffusion of Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> in sodium-ion batteries: a combined first-principles and experimental study. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17477-17486	13	11
119	Level-expansion: A statistical sequential design methodology with application to nanomaterial synthesis. <i>Journal of Quality Technology</i> , <b>2020</b> , 52, 97-107	1.4	

118	Influences of screw dislocations on electroluminescence of AlGaIn/AlN-based UVC LEDs. <i>AIP Advances</i> , <b>2019</b> , 9, 085128	1.5	8
117	Self-Activated Electrical Stimulation for Effective Hair Regeneration a Wearable Omnidirectional Pulse Generator. <i>ACS Nano</i> , <b>2019</b> , 13, 12345-12356	16.7	51
116	Massive Vacancy Concentration Yields Strong Room-Temperature Ferromagnetism in Two-Dimensional ZnO. <i>Nano Letters</i> , <b>2019</b> , 19, 7085-7092	11.5	18
115	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , <b>2019</b> , 62, 275-281	17.1	234
114	Bioinspired Synthesis of Quasi-Two-Dimensional Monocrystalline Oxides. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9040-9048	9.6	8
113	Enhanced Ferromagnetism from Organic-Cerium Oxide Hybrid Ultrathin Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44601-44608	9.5	3
112	Effective anti-biofouling enabled by surface electric disturbance from water wave-driven nanogenerator. <i>Nano Energy</i> , <b>2019</b> , 57, 558-565	17.1	31
111	A wafer-scale 1 nm Ni(OH) nanosheet with superior electrocatalytic activity for the oxygen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 5054-5059	7.7	25
110	Computation of Electronic Energy Band Diagrams for Piezotronic Semiconductor and Electrochemical Systems. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700395	6.4	7
109	AlGaAs/Si dual-junction tandem solar cells by epitaxial lift-off and print-transfer-assisted direct bonding. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 47-55	3.4	9
108	Ionic Layer Epitaxy of Nanometer-Thick Palladium Nanosheets with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3308-3314	9.6	21
107	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. <i>ACS Nano</i> , <b>2018</b> , 12, 4903-4908	16.7	46
106	Decoupling the charge collecting and screening effects in piezotronics-regulated photoelectrochemical systems by using graphene as the charge collector. <i>Nano Energy</i> , <b>2018</b> , 48, 377-382	17.1	8
105	H2V3O8 Nanowire/Graphene Electrodes for Aqueous Rechargeable Zinc Ion Batteries with High Rate Capability and Large Capacity. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800144	21.8	302
104	Metastable Intermediates in Amorphous Titanium Oxide: A Hidden Role Leading to Ultra-Stable Photoanode Protection. <i>Nano Letters</i> , <b>2018</b> , 18, 5335-5342	11.5	25
103	Piezotronics in Photo-Electrochemistry. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800154	24	30
102	Study of Long-Term Biocompatibility and Bio-Safety of Implantable Nanogenerators. <i>Nano Energy</i> , <b>2018</b> , 51, 728-735	17.1	42
101	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800848	4.6	276

100	VS Nanoparticles Anchored on Graphene Sheets as a High-Rate and Stable Electrode Material for Sodium Ion Batteries. <i>ChemSusChem</i> , <b>2018</b> , 11, 735-742	8.3	63
99	Implanted Battery-Free Direct-Current Micro-Power Supply from in Vivo Breath Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42030-42038	9.5	31
98	Effective weight control via an implanted self-powered vagus nerve stimulation device. <i>Nature Communications</i> , <b>2018</b> , 9, 5349	17.4	142
97	Effective Wound Healing Enabled by Discrete Alternative Electric Fields from Wearable Nanogenerators. <i>ACS Nano</i> , <b>2018</b> , 12, 12533-12540	16.7	137
96	Surface Gradient Ti-Doped MnO Nanowires for High-Rate and Long-Life Lithium Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44376-44384	9.5	29
95	Piezotronic modulations in electro- and photochemical catalysis. <i>MRS Bulletin</i> , <b>2018</b> , 43, 946-951	3.2	35
94	Mesoporous carbon nanofiber network derived from agarose for supercapacitor electrode. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	1
93	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and Ge Self-Passivation by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , <b>2018</b> , 12, 6748-6755	16.7	32
92	Air-Flow-Driven Triboelectric Nanogenerators for Self-Powered Real-Time Respiratory Monitoring. <i>ACS Nano</i> , <b>2018</b> , 12, 6156-6162	16.7	148
91	Atomic Layer Deposition for Advanced Electrode Design in Photoelectrochemical and Triboelectric Systems. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1600835	4.6	4
90	Hybrid graphene@MoS <sub>2</sub> @TiO <sub>2</sub> microspheres for use as a high performance negative electrode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3667-3674	13	56
89	Wafer-scale synthesis of ultrathin CoO nanosheets with enhanced electrochemical catalytic properties. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9060-9066	13	20
88	Surface-Plasmon-Resonance-Enhanced Photoelectrochemical Water Splitting from Au-Nanoparticle-Decorated 3D TiO <sub>2</sub> Nanorod Architectures. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12071-12079	3.8	63
87	Chemically Functionalized Natural Cellulose Materials for Effective Triboelectric Nanogenerator Development. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700794	15.6	147
86	Simultaneous Enhancement of Charge Separation and Hole Transportation in a TiO <sub>2</sub> -SrTiO <sub>3</sub> Core-Shell Nanowire Photoelectrochemical System. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701432	24	115
85	Research Update: Materials design of implantable nanogenerators for biomechanical energy harvesting. <i>APL Materials</i> , <b>2017</b> , 5,	5.7	51
84	Enhanced photoelectrochemical efficiency and stability using a conformal TiO <sub>2</sub> film on a black silicon photoanode. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	186
83	Single-crystalline germanium nanomembrane photodetectors on foreign nanocavities. <i>Science Advances</i> , <b>2017</b> , 3, e1602783	14.3	51

82	Cellulose-Based Nanomaterials for Energy Applications. <i>Small</i> , <b>2017</b> , 13, 1702240	11	130
81	Unit Cell Level Thickness Control of Single-Crystalline Zinc Oxide Nanosheets Enabled by Electrical Double-Layer Confinement. <i>Langmuir</i> , <b>2017</b> , 33, 7708-7714	4	15
80	Nature Degradable, Flexible, and Transparent Conductive Substrates from Green and Earth-Abundant Materials. <i>Scientific Reports</i> , <b>2017</b> , 7, 4936	4.9	28
79	Air-Stable Porous FeN Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , <b>2017</b> , 17, 5740-5746	11.5	110
78	Hierarchical Branched Vanadium Oxide Nanorod@Si Nanowire Architecture for High Performance Supercapacitors. <i>Small</i> , <b>2017</b> , 13, 1603076	11	17
77	Mesoporous Piezoelectric Polymer Composite Films with Tunable Mechanical Modulus for Harvesting Energy from Liquid Pressure Fluctuation. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6760-6765 <sup>15.6</sup>	15.6	55
76	Biocompatibility and in vivo operation of implantable mesoporous PVDF-based nanogenerators. <i>Nano Energy</i> , <b>2016</b> , 27, 275-281	17.1	106
75	Semiconductor Nanowires for Energy Harvesting. <i>Semiconductors and Semimetals</i> , <b>2016</b> , 94, 297-368	0.6	4
74	All-Textile Triboelectric Generator Compatible with Traditional Textile Process. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600147	6.8	59
73	Directed self-assembly of block copolymer films on atomically-thin graphene chemical patterns. <i>Scientific Reports</i> , <b>2016</b> , 6, 31407	4.9	16
72	Kinetics-Driven Crystal Facets Evolution at the Tip of Nanowires: A New Implementation of the Ostwald-Lussac Law. <i>Nano Letters</i> , <b>2016</b> , 16, 7078-7084	11.5	12
71	Inverted Wedding Cake Growth Operated by the Ehrlich-Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2257-2261	3.6	3
70	Morphological control in the adaptive ionic layer epitaxy of ZnO nanosheets. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 7, 64-70	3.9	7
69	Nanometre-thick single-crystalline nanosheets grown at the water-air interface. <i>Nature Communications</i> , <b>2016</b> , 7, 10444	17.4	100
68	Microwave TFTs Made of MOCVD ZnO With ALD Al <sub>2</sub> O <sub>3</sub> Gate Dielectric. <i>IEEE Journal of the Electron Devices Society</i> , <b>2016</b> , 4, 55-59	2.3	2
67	Chemical modification of polymer surfaces for advanced triboelectric nanogenerator development. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 9, 514-530	3.9	107
66	Inverted Wedding Cake Growth Operated by the Ehrlich-Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2217-21	16.4	9
65	High-density platinum nanoparticle-decorated titanium dioxide nanofiber networks for efficient capillary photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11672-11679	13	17

64	Piezoelectric and Triboelectric Dual Effects in Mechanical-Energy Harvesting Using BaTiO/Polydimethylsiloxane Composite Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34335-34347	9.5	136
63	Calculation of the piezoelectric and flexoelectric effects in nanowires using a decoupled finite element analysis method. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 154104	2.5	5
62	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO <sub>2</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 12239-45	9.5	116
61	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> , <b>2016</b> , 8, 11595-601	7.7	20
60	Triboelectric nanogenerators and power-boards from cellulose nanofibrils and recycled materials. <i>Nano Energy</i> , <b>2016</b> , 30, 103-108	17.1	121
59	Single-electrode triboelectric nanogenerator for scavenging friction energy from rolling tires. <i>Nano Energy</i> , <b>2015</b> , 15, 227-234	17.1	124
58	Wedding Cake Growth Mechanism in One-Dimensional and Two-Dimensional Nanostructure Evolution. <i>Nano Letters</i> , <b>2015</b> , 15, 7766-72	11.5	36
57	Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting in TiO <sub>2</sub> -BaTiO <sub>3</sub> Core-Shell Nanowire Photoanodes. <i>Nano Letters</i> , <b>2015</b> , 15, 7574-80	11.5	222
56	Piezotronic-Enhanced Photoelectrochemical Reactions in Ni(OH) <sub>2</sub> -Decorated ZnO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3410-6	6.4	52
55	Sequential Infiltration Synthesis of Doped Polymer Films with Tunable Electrical Properties for Efficient Triboelectric Nanogenerator Development. <i>Advanced Materials</i> , <b>2015</b> , 27, 4938-44	24	124
54	Development of lead iodide perovskite solar cells using three-dimensional titanium dioxide nanowire architectures. <i>ACS Nano</i> , <b>2015</b> , 9, 564-72	16.7	113
53	Coupling of piezoelectric effect with electrochemical processes. <i>Nano Energy</i> , <b>2015</b> , 14, 296-311	17.1	107
52	Nitrogen Doped 3D Titanium Dioxide Nanorods Architecture with Significantly Enhanced Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 4397-4405	3.8	36
51	Photoelectrodes: Highly Efficient Capillary Photoelectrochemical Water Splitting Using Cellulose Nanofiber-Templated TiO <sub>2</sub> Photoanodes (Adv. Mater. 14/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 2110-2116	14	3
50	Sponge-Like Piezoelectric Polymer Films for Scalable and Integratable Nanogenerators and Self-Powered Electronic Systems. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301624	21.8	270
49	Significant performance enhancement of ZnO photoanodes from Ni(OH) <sub>2</sub> electrocatalyst nanosheets overcoating. <i>Nano Energy</i> , <b>2014</b> , 6, 10-18	17.1	66
48	Evolution of hollow TiO <sub>2</sub> nanostructures via the Kirkendall effect driven by cation exchange with enhanced photoelectrochemical performance. <i>Nano Letters</i> , <b>2014</b> , 14, 2528-35	11.5	104
47	Enhanced photoresponse of ZnO nanorods-based self-powered photodetector by piezotronic interface engineering. <i>Nano Energy</i> , <b>2014</b> , 9, 237-244	17.1	172

46	One-dimensional titanium dioxide nanomaterials: nanowires, nanorods, and nanobelts. <i>Chemical Reviews</i> , <b>2014</b> , 114, 9346-84	68.1	504
45	Mechanisms in the solution growth of free-standing two-dimensional inorganic nanomaterials. <i>Nanoscale</i> , <b>2014</b> , 6, 6398-414	7.7	46
44	Cl-doped ZnO nanowires with metallic conductivity and their application for high-performance photoelectrochemical electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1288-93	9.5	69
43	Highly efficient capillary photoelectrochemical water splitting using cellulose nanofiber-templated TiO <sub>2</sub> photoanodes. <i>Advanced Materials</i> , <b>2014</b> , 26, 2262-7, 2110	24	90
42	Cellulose nanofiber-templated three-dimension TiO <sub>2</sub> hierarchical nanowire network for photoelectrochemical photoanode. <i>Nanotechnology</i> , <b>2014</b> , 25, 504005	3.4	30
41	Electron microscopy observation of TiO <sub>2</sub> nanocrystal evolution in high-temperature atomic layer deposition. <i>Nano Letters</i> , <b>2013</b> , 13, 5727-34	11.5	41
40	Spatial modeling for refining and predicting surface potential mapping with enhanced resolution. <i>Nanoscale</i> , <b>2013</b> , 5, 921-6	7.7	7
39	Mapping of strain/piezopotential relationship along bent zinc oxide microwires. <i>Nano Energy</i> , <b>2013</b> , 2, 1225-1231	17.1	7
38	Piezoelectric and Piezotronic Effects in Energy Harvesting and Conversion <b>2013</b> , 89-132		1
37	Spontaneous phase transformation and exfoliation of rectangular single-crystal zinc hydroxy dodecylsulfate nanomembranes. <i>ACS Nano</i> , <b>2013</b> , 7, 6007-16	16.7	15
36	Evolution of titanium dioxide one-dimensional nanostructures from surface-reaction-limited pulsed chemical vapor deposition. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 270-279	2.5	17
35	Piezoelectric-polarization-enhanced photovoltaic performance in depleted-heterojunction quantum-dot solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 916-21	24	81
34	Fundamental analysis of piezocatalysis process on the surfaces of strained piezoelectric materials. <i>Scientific Reports</i> , <b>2013</b> , 3, 2160	4.9	101
33	Three-Dimensional Kelvin Probe Microscopy for Characterizing In-Plane Piezoelectric Potential of Laterally Deflected ZnO Micro-/Nanowires. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 652-660	15.6	22
32	Substrate-free self-assembly approach toward large-area nanomembranes. <i>ACS Nano</i> , <b>2012</b> , 6, 2602-9	16.7	35
31	Piezoelectric nanogenerators harvesting ambient mechanical energy at the nanometer scale. <i>Nano Energy</i> , <b>2012</b> , 1, 13-24	17.1	334
30	Hierarchical TiO <sub>2</sub> /Bi nanowire architecture with photoelectrochemical activity under visible light illumination. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7918	35.4	57
29	Band structure engineering at heterojunction interfaces via the piezotronic effect. <i>Advanced Materials</i> , <b>2012</b> , 24, 4683-91	24	80

28	Piezopotential-Driven Redox Reactions at the Surface of Piezoelectric Materials. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 6064-6068	3.6	16
27	Piezopotential-driven redox reactions at the surface of piezoelectric materials. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5962-6	16.4	178
26	PVDF microbelts for harvesting energy from respiration. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4508	35.4	259
25	Growth of titanium dioxide nanorods in 3D-confined spaces. <i>Nano Letters</i> , <b>2011</b> , 11, 624-31	11.5	77
24	Interface engineering by piezoelectric potential in ZnO-based photoelectrochemical anode. <i>Nano Letters</i> , <b>2011</b> , 11, 5587-93	11.5	108
23	High-Performance Integrated ZnO Nanowire UV Sensors on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4464-4469	15.6	259
22	Three-dimensional high-density hierarchical nanowire architecture for high-performance photoelectrochemical electrodes. <i>Nano Letters</i> , <b>2011</b> , 11, 3413-9	11.5	210
21	Growth of Rutile Titanium Dioxide Nanowires by Pulsed Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 949-954	3.5	82
20	Piezoelectric Nanogenerators for Mechanical Energy Harvesting. <i>International Symposium on Microelectronics</i> , <b>2011</b> , 2011, 000367-000375	0.2	
19	Fundamental study of mechanical energy harvesting using piezoelectric nanostructures. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 034309	2.5	101
18	Wafer-Level Patterned and Aligned Polymer Nanowire/Micro- and Nanotube Arrays on any Substrate. <i>Advanced Materials</i> , <b>2009</b> , 21, 2072-2076	24	50
17	Output of an ultrasonic wave-driven nanogenerator in a confined tube. <i>Nano Research</i> , <b>2009</b> , 2, 177-182	10	24
16	Nanowire structured hybrid cell for concurrently scavenging solar and mechanical energies. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5866-72	16.4	151
15	Microfibre-nanowire hybrid structure for energy scavenging. <i>Nature</i> , <b>2008</b> , 451, 809-13	50.4	1312
14	. <i>IEEE Pervasive Computing</i> , <b>2008</b> , 7, 49-55	1.3	62
13	Integrated nanogenerators in biofluid. <i>Nano Letters</i> , <b>2007</b> , 7, 2475-9	11.5	138
12	Direct-current nanogenerator driven by ultrasonic waves. <i>Science</i> , <b>2007</b> , 316, 102-5	33.3	1837
11	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 711		236

10	High-performance pentacene field-effect transistors using Al <sub>2</sub> O <sub>3</sub> gate dielectrics prepared by atomic layer deposition (ALD). <i>Organic Electronics</i> , <b>2007</b> , 8, 718-726	3.5	125
9	Piezoelectric field effect transistor and nanoforce sensor based on a single ZnO nanowire. <i>Nano Letters</i> , <b>2006</b> , 6, 2768-72	11.5	856
8	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> , <b>2006</b> , 110, 7720-4	3.4	111
7	Controlled replication of butterfly wings for achieving tunable photonic properties. <i>Nano Letters</i> , <b>2006</b> , 6, 2325-31	11.5	442
6	Self-attraction among aligned Au/ZnO nanorods under electron beam. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 013111	3.4	66
5	Growth of uniformly aligned ZnO nanowire heterojunction arrays on GaN, AlN, and Al <sub>0.5</sub> Ga <sub>0.5</sub> N substrates. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7920-3	16.4	228
4	Large-size liftable inverted-nanobowl sheets as reusable masks for nanolithography. <i>Nano Letters</i> , <b>2005</b> , 5, 1784-8	11.5	59
3	Large-Scale Synthesis of Six-Nanometer-Wide ZnO Nanobelts. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8773-8777	3.4	268
2	Large-Scale Hexagonal-Patterned Growth of Aligned ZnO Nanorods for Nano-optoelectronics and Nanosensor Arrays. <i>Nano Letters</i> , <b>2004</b> , 4, 423-6	11.5	1371
1	The morphology of cast zinc-based alloy reinforced by spheroidal silicon phase and its wear resistance. <i>International Journal of Cast Metals Research</i> , <b>1998</b> , 11, 39-42	1	