

Xinqin Liao

List of Publications by Year in Descending Order

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

275
papers

11,757
citations

66
h-index

98
g-index

286
ext. papers

14,134
ext. citations

10.9
avg. IF

6.7
L-index

#	Paper	IF	Citations
275	Low elevation target altitude measurement for ubiquitous radar based on known transmitted waveform and sparse representation. <i>IET Radar, Sonar and Navigation</i> , 2022 , 16, 346-355	1.4	0
274	Interpretation of Rubidium-based Perovskite Recipes towards Electronic Passivation and Ion Diffusion Mitigation.. <i>Advanced Materials</i> , 2022 , e2109998	24	5
273	A stretching-insensitive, self-powered and wearable pressure sensor. <i>Nano Energy</i> , 2022 , 91, 106695	17.1	5
272	Image reconstruction of immersed ultrasonic testing for strongly attenuative materials. <i>Mechanical Systems and Signal Processing</i> , 2022 , 168, 108654	7.8	0
271	Record-high saturation current in end-bond contacted monolayer MoS2 transistors. <i>Nano Research</i> , 2022 , 15, 475	10	9
270	Highly conductive and stretching-insensitive films for wearable accurate pressure perception. <i>Chemical Engineering Journal</i> , 2022 , 429, 132488	14.7	2
269	A van der Waals Ferroelectric Tunnel Junction for Ultrahigh-Temperature Operation Memory.. <i>Small Methods</i> , 2022 , e2101583	12.8	2
268	Architecture Design and Interface Engineering of Self-assembly VS/rGO Heterostructures for Ultrathin Absorbent.. <i>Nano-Micro Letters</i> , 2022 , 14, 67	19.5	2
267	Renaissance of One-Dimensional Nanomaterials. <i>Advanced Functional Materials</i> , 2022 , 32, 2113192	15.6	1
266	All-van-der-Waals Barrier-Free Contacts for High-Mobility Transistors.. <i>Advanced Materials</i> , 2022 , e2109521	24	4
265	Flexible electronics and optoelectronics of 2D van der Waals materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 671-690	3.1	1
264	Extraction of Micro-Doppler Feature Using LMD Algorithm Combined Supplement Feature for UAVs and Birds Classification. <i>Remote Sensing</i> , 2022 , 14, 2196	5	0
263	Tough and Degradable Self-Healing Elastomer from Synergistic Soft-Hard Segments Design for Biomechano-Robust Artificial Skin. <i>ACS Nano</i> , 2021 ,	16.7	4
262	Design of an S-Band Phased Array with Modified Dipoles. <i>International Journal of Antennas and Propagation</i> , 2021 , 2021, 1-8	1.2	0
261	Single-Atom Engineering to Ignite 2D Transition Metal Dichalcogenide Based Catalysis: Fundamentals, Progress, and Beyond. <i>Chemical Reviews</i> , 2021 ,	68.1	20
260	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021 , 591, 385-390	50.4	47
259	Near-ideal van der Waals rectifiers based on all-two-dimensional Schottky junctions. <i>Nature Communications</i> , 2021 , 12, 1522	17.4	31

258	An Artificial Peripheral Neural System Based on Highly Stretchable and Integrated Multifunctional Sensors. <i>Advanced Functional Materials</i> , 2021 , 31, 2101107	15.6	15
257	Grain Boundary Perfection Enabled by Pyridinic Nitrogen Doped Graphdiyne in Hybrid Perovskite. <i>Advanced Functional Materials</i> , 2021 , 31, 2104633	15.6	6
256	Ultra-stable ZnO nanobelts in electrochemical environments. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 430-437	4.37	7
255	Gate-Controlled Polarity-Reversible Photodiodes with Ambipolar 2D Semiconductors. <i>Advanced Functional Materials</i> , 2021 , 31, 2007559	15.6	13
254	The coupling effect characterization for van der Waals structures based on transition metal dichalcogenides. <i>Nano Research</i> , 2021 , 14, 1734-1751	10	2
253	Strain Engineering in 2D Material-Based Flexible Optoelectronics.. <i>Small Methods</i> , 2021 , 5, e2000919	12.8	26
252	A highly stretchable and deformation-insensitive bionic electronic exteroceptive neural sensor for human-machine interfaces. <i>Nano Energy</i> , 2021 , 80, 105548	17.1	8
251	MRC-Based Double Figure-of-Eight Coil Sensor System With Triple-Mode Operation Capability for Biomedical Applications. <i>IEEE Sensors Journal</i> , 2021 , 21, 14491-14502	4	2
250	Advent of alkali metal doping: a roadmap for the evolution of perovskite solar cells. <i>Chemical Society Reviews</i> , 2021 , 50, 2696-2736	58.5	34
249	Manipulation of Perovskite Crystallization Kinetics via Lewis Base Additives. <i>Advanced Functional Materials</i> , 2021 , 31, 2009425	15.6	21
248	A-Site Management Prompts the Dynamic Reconstructed Active Phase of Perovskite Oxide OER Catalysts. <i>Advanced Energy Materials</i> , 2021 , 11, 2003755	21.8	42
247	Fully Organic Self-Powered Electronic Skin with Multifunctional and Highly Robust Sensing Capability. <i>Research</i> , 2021 , 2021, 9801832	7.8	2
246	Interface Engineering for High-Performance Photoelectrochemical Cells via Atomic Layer Deposition Technique. <i>Energy Technology</i> , 2021 , 9, 2170023	3.5	
245	Single-Atom Vacancy Doping in Two-Dimensional Transition Metal Dichalcogenides. <i>Accounts of Materials Research</i> , 2021 , 2, 655-668	7.5	6
244	Direct Charge Trapping Multilevel Memory with Graphdiyne/MoS Van der Waals Heterostructure. <i>Advanced Science</i> , 2021 , 8, e2101417	13.6	7
243	Nanowelding in Whole-Lifetime Bottom-Up Manufacturing: From Assembly to Service.. <i>Small Methods</i> , 2021 , 5, e2100654	12.8	2
242	Molecule-Upgraded van der Waals Contacts for Schottky-Barrier-Free Electronics. <i>Advanced Materials</i> , 2021 , 33, e2104935	24	5
241	Cryptanalysis of phase information based on a double random-phase encryption method. <i>Optics Communications</i> , 2021 , 497, 127172	2	2

240	A heaving point absorber-based ocean wave energy convertor hybridizing a multilayered soft-brush cylindrical triboelectric generator and an electromagnetic generator. <i>Nano Energy</i> , 2021 , 89, 106381	17.1	10
239	Hidden Vacancy Benefit in Monolayer 2D Semiconductors. <i>Advanced Materials</i> , 2021 , 33, e2007051	24	27
238	Interface Engineering for High-Performance Photoelectrochemical Cells via Atomic Layer Deposition Technique. <i>Energy Technology</i> , 2021 , 9, 2000819	3.5	4
237	Precision Improvement of Power-Efficient Capacitive Sensor Readout Circuit Using Multi-Nested Clocks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 2578-2587	3.9	4
236	Self-powered user-interactive electronic skin for programmable touch operation platform. <i>Science Advances</i> , 2020 , 6, eaba4294	14.3	55
235	Pre-migration: A General Extension for Photoacoustic Imaging Reconstruction. <i>IEEE Transactions on Computational Imaging</i> , 2020 , 6, 1097-1105	4.5	5
234	Edge induced band bending in van der Waals heterojunctions: A first principle study. <i>Nano Research</i> , 2020 , 13, 701-708	10	5
233	Controlling the Facet of ZnO during Wet Chemical Etching Its (000) O-Terminated Surface. <i>Small</i> , 2020 , 16, e1906435	11	3
232	Perovskite Crystallization: A-Site Management for Highly Crystalline Perovskites (Adv. Mater. 4/2020). <i>Advanced Materials</i> , 2020 , 32, 2070031	24	
231	Development of a Handheld Volumetric Photoacoustic Imaging System With a Central-Holed 2D Matrix Aperture. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2482-2489	5	3
230	A bioinspired analogous nerve towards artificial intelligence. <i>Nature Communications</i> , 2020 , 11, 268	17.4	34
229	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
228	Emerging Conductive Atomic Force Microscopy for Metal Halide Perovskite Materials and Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903922	21.8	27
227	Graphdiyne: Bridging SnO ₂ and Perovskite in Planar Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 11670-11679	13.679	4
226	Graphdiyne: Bridging SnO and Perovskite in Planar Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11573-11582	16.4	76
225	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. <i>Nature Electronics</i> , 2020 , 3, 630-637	28.4	26
224	A-Site Management for Highly Crystalline Perovskites. <i>Advanced Materials</i> , 2020 , 32, e1904702	24	37
223	Defect-Engineered Atomically Thin MoS Homogeneous Electronics for Logic Inverters. <i>Advanced Materials</i> , 2020 , 32, e1906646	24	46

222	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. <i>Nature Nanotechnology</i> , 2020 , 15, 768-775	28.7	23
221	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 10000-10008	6.8	16
220	Highly Robust and Self-Powered Electronic Skin Based on Tough Conductive Self-Healing Elastomer. <i>ACS Nano</i> , 2020 , 14, 9066-9072	16.7	47
219	Single-Atom Vacancy Defect to Trigger High-Efficiency Hydrogen Evolution of MoS. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4298-4308	16.4	287
218	Unique structural advances of graphdiyne for energy applications. <i>EnergyChem</i> , 2020 , 2, 100041	36.9	21
217	Synergistic engineering of dielectric and magnetic losses in M-Co/RGO nanocomposites for use in high-performance microwave absorption. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3013-3021	7.8	8
216	Atomic-Thin ZnO Sheet for Visible-Blind Ultraviolet Photodetection. <i>Small</i> , 2020 , 16, e2005520	11	19
215	3D Holey-Graphene Architecture Expedites Ion Transport Kinetics to Push the OER Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001005	21.8	22
214	Point defect induced intervalley scattering for the enhancement of interlayer electron transport in bilayer MoS homojunctions. <i>Nanoscale</i> , 2020 , 12, 9859-9865	7.7	2
213	Wet Etching: Controlling the Facet of ZnO during Wet Chemical Etching Its (0001) O-Terminated Surface (Small 14/2020). <i>Small</i> , 2020 , 16, 2070076	11	
212	A Universal Strategy for Improving the Energy Transmission Efficiency and Load Power of Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2019 , 9, 1901881	21.8	5
211	3D Viscoplastic Finite Element Modeling of Dislocation Generation in a Large Size Si Ingot of the Directional Solidification Stage. <i>Materials</i> , 2019 , 12,	3.5	1
210	3D printing of ionic conductors for high-sensitivity wearable sensors. <i>Materials Horizons</i> , 2019 , 6, 767-780	4.4	97
209	Synergistic sensing of stratified structures enhancing touch recognition for multifunctional interactive electronics. <i>Nano Energy</i> , 2019 , 62, 410-418	17.1	16
208	Recent Advances in Triboelectric Nanogenerator-Based Health Monitoring. <i>Advanced Functional Materials</i> , 2019 , 29, 1808849	15.6	97
207	Hetero-contact microstructure to program discerning tactile interactions for virtual reality. <i>Nano Energy</i> , 2019 , 60, 127-136	17.1	29
206	Ligand Engineering for Improved All-Inorganic Perovskite Quantum Dot-MoS2 Monolayer Mixed Dimensional van der Waals Phototransistor. <i>Small Methods</i> , 2019 , 3, 1900117	12.8	26
205	Interface Engineering for Modulation of Charge Carrier Behavior in ZnO Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2019 , 29, 1808032	15.6	95

204	Self-Healing Originated van der Waals Homojunctions with Strong Interlayer Coupling for High-Performance Photodiodes. <i>ACS Nano</i> , 2019 , 13, 3280-3291	16.7	43
203	Graphdiyne Nanowall for Enhanced Photoelectrochemical Performance of Si Heterojunction Photoanode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2745-2749	9.5	20
202	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. <i>ACS Nano</i> , 2019 , 13, 9057-9066	16.7	53
201	Graphene-Based Mixed-Dimensional van der Waals Heterostructures for Advanced Optoelectronics. <i>Advanced Materials</i> , 2019 , 31, e1806411	24	67
200	Monolithic Dual-Material 3D Printing of Ionic Skins with Long-Term Performance Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1904716	15.6	49
199	Kelvin probe force microscopy for perovskite solar cells. <i>Science China Materials</i> , 2019 , 62, 776-789	7.1	52
198	Compact Broadband Four-Port MIMO Antenna for 5G and IoT Applications 2019 ,		3
197	Controllably Enhancing Stretchability of Highly Sensitive Fiber-Based Strain Sensors for Intelligent Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2431-2440	9.5	32
196	Self-powered visualization system by conjunction of photovoltaic effect and contact-electrification. <i>Nano Energy</i> , 2019 , 57, 528-534	17.1	7
195	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 1393-1404	3.9	8
194	Engineering an Earth-Abundant Element-Based Bifunctional Electrocatalyst for Highly Efficient and Durable Overall Water Splitting. <i>Advanced Functional Materials</i> , 2019 , 29, 1807031	15.6	89
193	Nanomechanical Microfluidic Mixing and Rapid Labeling of Silica Nanoparticles using Allenamide-Thiol Covalent Linkage for Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4867-4875	9.5	3
192	Green hybrid power system based on triboelectric nanogenerator for wearable/portable electronics. <i>Nano Energy</i> , 2019 , 55, 151-163	17.1	94
191	Transparent and flexible tactile sensors based on graphene films designed for smart panels. <i>Journal of Materials Science</i> , 2018 , 53, 9589-9597	4.3	19
190	Facile synthesis of NiCo ₂ S ₄ nanowire arrays on 3D graphene foam for high-performance electrochemical capacitors application. <i>Journal of Materials Science</i> , 2018 , 53, 10292-10301	4.3	25
189	Highly stretchable strain sensors with reduced graphene oxide sensing liquids for wearable electronics. <i>Nanoscale</i> , 2018 , 10, 5264-5271	7.7	95
188	Development, applications, and future directions of triboelectric nanogenerators. <i>Nano Research</i> , 2018 , 11, 2951-2969	10	66
187	A High-Performance Self-Powered Photodetector Based on Monolayer MoS ₂ /Perovskite Heterostructures. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701275	4.6	75

186	Ferroelectric polarization-enhanced charge separation in a vanadium-doped ZnO photoelectrochemical system. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1533-1539	6.8	21
185	Enhanced field emission properties of graphene-based cathodes fabricated by ultrasonic atomization spray.. <i>RSC Advances</i> , 2018 , 8, 16207-16213	3.7	4
184	Silica aerogel films via ambient pressure drying for broadband reflectors. <i>New Journal of Chemistry</i> , 2018 , 42, 6525-6531	3.6	8
183	Macroporous Double-Network Hydrogel for High-Efficiency Solar Steam Generation Under 1 sun Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10998-11007	9.5	127
182	Novel perovskite/TiO ₂ /Si trilayer heterojunctions for high-performance self-powered ultraviolet-visible-near infrared (UV-Vis-NIR) photodetectors. <i>Nano Research</i> , 2018 , 11, 1722-1730	10	37
181	Interfacial Charge Behavior Modulation in Perovskite Quantum Dot-Monolayer MoS ₂ 0D-2D Mixed-Dimensional van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1802015	15.6	75
180	Hierarchically distributed microstructure design of haptic sensors for personalized fingertip mechanosensational manipulation. <i>Materials Horizons</i> , 2018 , 5, 920-931	14.4	22
179	Flexible Triboelectric Nanogenerators 2018 , 383-423		1
178	An Amphiphobic Hydraulic Triboelectric Nanogenerator for a Self-Cleaning and Self-Charging Power System. <i>Advanced Functional Materials</i> , 2018 , 28, 1803117	15.6	64
177	Hydrophobic Polystyrene Passivation Layer for Simultaneously Improved Efficiency and Stability in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18787-18795	9.5	76
176	Van Der Waals Heterostructures: Interfacial Charge Behavior Modulation in Perovskite Quantum Dot-Monolayer MoS ₂ 0D-2D Mixed-Dimensional van der Waals Heterostructures (Adv. Funct. Mater. 34/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870239	15.6	3
175	In Situ Preparation of Cobalt Nanoparticles Decorated in N-Doped Carbon Nanofibers as Excellent Electromagnetic Wave Absorbers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22591-22601	9.5	76
174	Effect of UV Irradiation and Heat Treatment on the Surface Potential Distribution of Monolayer WS ₂ on SiO ₂ /Si and Au Substrates. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701083	4.6	5
173	3D graphene foam/ZnO nanorods array mixed-dimensional heterostructure for photoelectrochemical biosensing. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 364-369	6.8	11
172	Efficient Yttrium(III) Chloride-Treated TiO Electron Transfer Layers for Performance-Improved and Hysteresis-Less Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 171-177	8.3	29
171	Enhanced microwave absorption performance of highly dispersed CoNi nanostructures arrayed on graphene. <i>Nano Research</i> , 2018 , 11, 2689-2704	10	82
170	Electromagnetic Shielding Hybrid Nanogenerator for Health Monitoring and Protection. <i>Advanced Functional Materials</i> , 2018 , 28, 1703801	15.6	139
169	Optoelectronics: All-Inorganic Perovskite Quantum Dot-Monolayer MoS ₂ Mixed-Dimensional van der Waals Heterostructure for Ultrasensitive Photodetector (Adv. Sci. 12/2018). <i>Advanced Science</i> , 2018 , 5, 1870078	13.6	78

168	"Guide Star" Assisted Noninvasive Photoacoustic Measurement of Glucose. <i>ACS Sensors</i> , 2018 , 3, 2550-2557	4.9	13
167	Solid and macroporous FeC/N-C nanofibers with enhanced electromagnetic wave absorbability. <i>Scientific Reports</i> , 2018 , 8, 16832	4.9	22
166	Passive ultrasound aided acoustic resolution photoacoustic microscopy imaging for layered heterogeneous media. <i>Applied Physics Letters</i> , 2018 , 113, 241901	3.4	5
165	Compact acoustic double negative metamaterial based on coexisting local resonances. <i>Applied Physics Letters</i> , 2018 , 113, 244101	3.4	5
164	Directly printed wearable electronic sensing textiles towards human-machine interfaces. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12841-12848	7.1	37
163	Thermo-responsive phase-transition polymer grafted magnetic FePt nanoparticles with tunable critical temperature for controlled drug release. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1609-1617	7.8	6
162	Flexible, Cuttable, and Self-Waterproof Bending Strain Sensors Using Microcracked Gold Nanofilms@Paper Substrate. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4151-4158	9.5	81
161	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. <i>ACS Nano</i> , 2017 , 11, 1728-1735	16.7	131
160	Self-powered artificial electronic skin for high-resolution pressure sensing. <i>Nano Energy</i> , 2017 , 32, 389-396	10.1	101
159	3D architecture of a graphene/CoMoO ₄ composite for asymmetric supercapacitors usable at various temperatures. <i>Journal of Colloid and Interface Science</i> , 2017 , 493, 42-50	9.3	43
158	Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates. <i>Small</i> , 2017 , 13, 1603103	11	47
157	Service Behavior of Multifunctional Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2017 , 29, 1606703	10.4	88
156	Enhanced Efficiency and Stability of Perovskite Solar Cells via Anti-Solvent Treatment in Two-Step Deposition Method. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7224-7231	9.5	76
155	Polarity-Dependent Piezotronic Effect and Controllable Transport Modulation of ZnO with Multifield Coupled Interface Engineering. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600842	4.6	10
154	Real time size-dependent particle segregation and quantitative detection in a surface acoustic wave-photoacoustic integrated microfluidic system. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 568-576	8.5	14
153	Ultra-thin, transparent and flexible tactile sensors based on graphene films with excellent anti-interference. <i>RSC Advances</i> , 2017 , 7, 30506-30512	3.7	10
152	Deciphering the NH ₄ PbI ₃ Intermediate Phase for Simultaneous Improvement on Nucleation and Crystal Growth of Perovskite. <i>Advanced Functional Materials</i> , 2017 , 27, 1701804	15.6	89
151	Poly(4-styrenesulfonate)-induced sulfur vacancy self-healing strategy for monolayer MoS ₂ homojunction photodiode. <i>Nature Communications</i> , 2017 , 8, 15881	17.4	129

150	Strain modulation on graphene/ZnO nanowire mixed-dimensional van der Waals heterostructure for high-performance photosensor. <i>Nano Research</i> , 2017 , 10, 3476-3485	10	37
149	Ultrasensitive and stretchable resistive strain sensors designed for wearable electronics. <i>Materials Horizons</i> , 2017 , 4, 502-510	14.4	151
148	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
147	A compact and lightweight off-axis lightguide prism in near to eye display. <i>Optics Communications</i> , 2017 , 393, 143-151	2	3
146	Investigation on the broadband electromagnetic wave absorption properties and mechanism of Co ₃ O ₄ -nanosheets/reduced-graphene-oxide composite. <i>Nano Research</i> , 2017 , 10, 980-990	10	127
145	A facile method for the preparation of three-dimensional CNT sponge and a nanoscale engineering design for high performance fiber-shaped asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22559-22567	13	27
144	Design and tailoring of patterned ZnO nanostructures for energy conversion applications. <i>Science China Materials</i> , 2017 , 60, 793-810	7.1	31
143	Low-cost highly sensitive strain sensors for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10571-10577	7.1	15
142	Ultrathin strain-gated field effect transistor based on In-doped ZnO nanobelts. <i>APL Materials</i> , 2017 , 5, 086111	5.7	5
141	Noninvasive photoacoustic measurement of glucose by data fusion. <i>Analyst, The</i> , 2017 , 142, 2892-2896	5	16
140	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. <i>Nano Energy</i> , 2017 , 39, 429-436	17.1	112
139	Photovoltaics: Deciphering the NH ₄ PbI ₃ Intermediate Phase for Simultaneous Improvement on Nucleation and Crystal Growth of Perovskite (Adv. Funct. Mater. 30/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	4
138	Bioinspired Tribotronic Resistive Switching Memory for Self-Powered Memorizing Mechanical Stimuli. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43822-43829	9.5	32
137	Rationally encapsulated gold nanorods improving both linear and nonlinear photoacoustic imaging contrast in vivo. <i>Nanoscale</i> , 2017 , 9, 79-86	7.7	32
136	Effect of carrier screening on ZnO-based resistive switching memory devices. <i>Nano Research</i> , 2017 , 10, 77-86	10	21
135	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. <i>Nano Research</i> , 2017 , 10, 157-171	10	37
134	Recyclable and Green Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2017 , 29, 1604961	24	111
133	Performance optimization of a MnO ₂ /carbon nanotube substrate for efficient catalytic oxidation of low-concentration NO at room temperature. <i>RSC Advances</i> , 2016 , 6, 70261-70270	3.7	13

132	Synergistic Effect of Surface Plasmonic particles and Surface Passivation layer on ZnO Nanorods Array for Improved Photoelectrochemical Water Splitting. <i>Scientific Reports</i> , 2016 , 6, 29907	4.9	55
131	Surpassing the Exciton Diffusion Limit in Single-Walled Carbon Nanotube Sensitized Solar Cells. <i>ACS Nano</i> , 2016 , 10, 11258-11265	16.7	21
130	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 7708-7716	15.6	112
129	One-Piece Triboelectric Nanosensor for Self-Triggered Alarm System and Latent Fingerprint Detection. <i>ACS Nano</i> , 2016 , 10, 10366-10372	16.7	84
128	Reduced Graphene Oxide Functionalized with Cobalt Ferrite Nanocomposites for Enhanced Efficient and Lightweight Electromagnetic Wave Absorption. <i>Scientific Reports</i> , 2016 , 6, 32381	4.9	43
127	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. <i>Science Advances</i> , 2016 , 2, e1501624	14.3	221
126	Band alignment engineering for high-energy-density solid-state asymmetric supercapacitors with TiO ₂ insertion at the ZnO/Ni(OH) ₂ interface. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17981-17987	13	22
125	Self-Powered Photoelectrochemical Biosensor Based on CdS/RGO/ZnO Nanowire Array Heterostructure. <i>Small</i> , 2016 , 12, 245-51	11	121
124	Electrical Characteristics: High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 804-804	15.6	3
123	Integrated multi-unit transparent triboelectric nanogenerator harvesting rain power for driving electronics. <i>Nano Energy</i> , 2016 , 25, 18-25	17.1	73
122	Flexible and printable paper-based strain sensors for wearable and large-area green electronics. <i>Nanoscale</i> , 2016 , 8, 13025-32	7.7	129
121	The enhanced performance of piezoelectric nanogenerator via suppressing screening effect with Au particles/ZnO nanoarrays Schottky junction. <i>Nano Research</i> , 2016 , 9, 372-379	10	47
120	Improved Photoresponse Performance of Self-Powered ZnO/Spiro-MeOTAD Heterojunction Ultraviolet Photodetector by Piezo-Phototronic Effect. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6137-43	9.5	71
119	A Filter Bank Mismatch Calibration Technique for Frequency-Interleaved ADCs. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 3847-3862	2.2	5
118	Constitutive Modeling of High-Temperature Flow Behavior of an Nb Micro-alloyed Hot Stamping Steel. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 948-959	1.6	4
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