

Xinqin Liao

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275
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98
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286
ext. papers

14,134
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
275	Flexible and Highly Sensitive Strain Sensors Fabricated by Pencil Drawn for Wearable Monitor. <i>Advanced Functional Materials</i> , 2015 , 25, 2395-2401	15.6	359
274	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
273	Stretchable-Rubber-Based Triboelectric Nanogenerator and Its Application as Self-Powered Body Motion Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 3688-3696	15.6	261
272	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
271	Scanning probe study on the piezotronic effect in ZnO nanomaterials and nanodevices. <i>Advanced Materials</i> , 2012 , 24, 4647-55	24	205
270	A flexible, stretchable and shape-adaptive approach for versatile energy conversion and self-powered biomedical monitoring. <i>Advanced Materials</i> , 2015 , 27, 3817-24	24	199
269	A Highly Stretchable ZnO@Fiber-Based Multifunctional Nanosensor for Strain/Temperature/UV Detection. <i>Advanced Functional Materials</i> , 2016 , 26, 3074-3081	15.6	195
268	Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. <i>Nature Communications</i> , 2015 , 6, 7430	17.4	193
267	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
266	High output piezoelectric nanocomposite generators composed of oriented BaTiO ₃ NPs@PVDF. <i>Nano Energy</i> , 2015 , 11, 719-727	17.1	186
265	Stretchable and Waterproof Self-Charging Power System for Harvesting Energy from Diverse Deformation and Powering Wearable Electronics. <i>ACS Nano</i> , 2016 , 10, 6519-25	16.7	160
264	Band alignment engineering for improved performance and stability of ZnFe ₂ O ₄ modified CdS/ZnO nanostructured photoanode for PEC water splitting. <i>Nano Energy</i> , 2016 , 24, 25-31	17.1	160
263	3D-Branched ZnO/CdS Nanowire Arrays for Solar Water Splitting and the Service Safety Research. <i>Advanced Energy Materials</i> , 2016 , 6, 1501459	21.8	158
262	Ultrasensitive and stretchable resistive strain sensors designed for wearable electronics. <i>Materials Horizons</i> , 2017 , 4, 502-510	14.4	151
261	Highly transparent triboelectric nanogenerator for harvesting water-related energy reinforced by antireflection coating. <i>Scientific Reports</i> , 2015 , 5, 9080	4.9	149
260	Electromagnetic Shielding Hybrid Nanogenerator for Health Monitoring and Protection. <i>Advanced Functional Materials</i> , 2018 , 28, 1703801	15.6	139
259	Directed Growth and Microwave Absorption Property of Crossed ZnO Netlike Micro-/Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10088-10091	3.8	136

258	High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016 , 26, 704-712	15.6	136
257	Electromagnetic wave absorption in reduced graphene oxide functionalized with Fe ₃ O ₄ /Fe nanorings. <i>Nano Research</i> , 2016 , 9, 2018-2025	10	136
256	Self-Powered Trajectory, Velocity, and Acceleration Tracking of a Moving Object/Body using a Triboelectric Sensor. <i>Advanced Functional Materials</i> , 2014 , 24, 7488-7494	15.6	135
255	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. <i>ACS Nano</i> , 2017 , 11, 1728-1735	16.7	131
254	Electronic structure engineering of Cu ₂ O film/ZnO nanorods array all-oxide p-n heterostructure for enhanced photoelectrochemical property and self-powered biosensing application. <i>Scientific Reports</i> , 2015 , 5, 7882	4.9	131
253	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
252	Flexible and printable paper-based strain sensors for wearable and large-area green electronics. <i>Nanoscale</i> , 2016 , 8, 13025-32	7.7	129
251	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
250	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
249	Self-Powered Photoelectrochemical Biosensor Based on CdS/RGO/ZnO Nanowire Array Heterostructure. <i>Small</i> , 2016 , 12, 245-51	11	121
248	Flexible piezoelectric nanogenerators based on a fiber/ZnO nanowires/paper hybrid structure for energy harvesting. <i>Nano Research</i> , 2014 , 7, 917-928	10	120
247	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 7708-7716	15.6	112
246	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. <i>Nano Energy</i> , 2017 , 39, 429-436	17.1	112
245	Enhanced photoelectrochemical property of ZnO nanorods array synthesized on reduced graphene oxide for self-powered biosensing application. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 499-504	11.8	111
244	Recyclable and Green Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2017 , 29, 1604961	24	111
243	Self-powered artificial electronic skin for high-resolution pressure sensing. <i>Nano Energy</i> , 2017 , 32, 389-396	16.1	101
242	3D printing of ionic conductors for high-sensitivity wearable sensors. <i>Materials Horizons</i> , 2019 , 6, 767-780	14.4	97
241	Recent Advances in Triboelectric Nanogenerator-Based Health Monitoring. <i>Advanced Functional Materials</i> , 2019 , 29, 1808849	15.6	97

240	Interface Engineering for Modulation of Charge Carrier Behavior in ZnO Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2019 , 29, 1808032	15.6	95
239	Highly stretchable strain sensors with reduced graphene oxide sensing liquids for wearable electronics. <i>Nanoscale</i> , 2018 , 10, 5264-5271	7.7	95
238	Green hybrid power system based on triboelectric nanogenerator for wearable/portable electronics. <i>Nano Energy</i> , 2019 , 55, 151-163	17.1	94
237	Performance and service behavior in 1-D nanostructured energy conversion devices. <i>Nano Energy</i> , 2015 , 14, 30-48	17.1	91
236	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
235	Design of sandwich-structured ZnO/ZnS/Au photoanode for enhanced efficiency of photoelectrochemical water splitting. <i>Nano Research</i> , 2015 , 8, 2891-2900	10	89
234	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
233	Service Behavior of Multifunctional Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2017 , 29, 16067034	16.7	88
232	Carbon fiber-ZnO nanowire hybrid structures for flexible and adaptable strain sensors. <i>Nanoscale</i> , 2013 , 5, 12350-5	7.7	88
231	One-Piece Triboelectric Nanosensor for Self-Triggered Alarm System and Latent Fingerprint Detection. <i>ACS Nano</i> , 2016 , 10, 10366-10372	16.7	84
230	High on-off ratio improvement of ZnO-based forming-free memristor by surface hydrogen annealing. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7382-8	9.5	83
229	Photoelectrochemical performance enhancement of ZnO photoanodes from ZnIn ₂ S ₄ nanosheets coating. <i>Nano Energy</i> , 2015 , 14, 392-400	17.1	83
228	Enhanced microwave absorption performance of highly dispersed CoNi nanostructures arrayed on graphene. <i>Nano Research</i> , 2018 , 11, 2689-2704	10	82
227	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
226	Self-powered photoelectrochemical biosensing platform based on Au NPs@ZnO nanorods array. <i>Nano Research</i> , 2016 , 9, 344-352	10	80
225	Enhanced photoresponse of Cu ₂ O/ZnO heterojunction with piezo-modulated interface engineering. <i>Nano Research</i> , 2014 , 7, 860-868	10	80
224	A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. <i>RSC Advances</i> , 2015 , 5, 5976-5981	3.7	80
223	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

222	Strain Modulation in Graphene/ZnO Nanorod Film Schottky Junction for Enhanced Photosensing Performance. <i>Advanced Functional Materials</i> , 2016 , 26, 1347-1353	15.6	77
221	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
220	Graphdiyne: Bridging SnO and Perovskite in Planar Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11573-11582	16.4	76
219	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
218	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
217	A High-Performance Self-Powered Photodetector Based on Monolayer MoS ₂ /Perovskite Heterostructures. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701275	4.6	75
216	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
215	Integrated multi-unit transparent triboelectric nanogenerator harvesting rain power for driving electronics. <i>Nano Energy</i> , 2016 , 25, 18-25	17.1	73
214	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
213	Gold nanoparticle/ZnO nanorod hybrids for enhanced reactive oxygen species generation and photodynamic therapy. <i>Nano Research</i> , 2015 , 8, 2004-2014	10	68
212	Temperature-dependent electrochemical capacitive performance of the Fe ₂ O ₃ hollow nanoshuttles as supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 291-6	9.3	67
211	Graphene-Based Mixed-Dimensional van der Waals Heterostructures for Advanced Optoelectronics. <i>Advanced Materials</i> , 2019 , 31, e1806411	24	67
210	Development, applications, and future directions of triboelectric nanogenerators. <i>Nano Research</i> , 2018 , 11, 2951-2969	10	66
209	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
208	Three-dimensional ordered ZnO/Cu ₂ O nanoheterojunctions for efficient metal-oxide solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3216-23	9.5	63
207	Investigation on the optimization, design and microwave absorption properties of reduced graphene oxide/tetrapod-like ZnO composites. <i>RSC Advances</i> , 2015 , 5, 10197-10203	3.7	63
206	Fiber-shaped asymmetric supercapacitors with ultrahigh energy density for flexible/wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17704-17710	13	60
205	Morphology, structures and properties of ZnO nanobelts fabricated by Zn-powder evaporation without catalyst at lower temperature. <i>Journal of Materials Science</i> , 2006 , 41, 3057-3062	4.3	59

204	ZnO nanostructures in enzyme biosensors. <i>Science China Materials</i> , 2015 , 58, 60-76	7.1	58
203	Enhanced performance of ZnO piezotronic pressure sensor through electron-tunneling modulation of MgO nanolayer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1602-7	9.5	58
202	Highly sensitive uric acid biosensor based on individual zinc oxide micro/nanowires. <i>Mikrochimica Acta</i> , 2013 , 180, 759-766	5.8	57
201	Self-powered user-interactive electronic skin for programmable touch operation platform. <i>Science Advances</i> , 2020 , 6, eaba4294	14.3	55
200	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
199	Self-Recovering Triboelectric Nanogenerator as Active Multifunctional Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 6489-6494	15.6	54
198	Nonenzymatic Glucose Sensor Based on In Situ Reduction of Ni/NiO-Graphene Nanocomposite. <i>Sensors</i> , 2016 , 16,	3.8	54
197	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. <i>ACS Nano</i> , 2019 , 13, 9057-9066	16.7	53
196	Kelvin probe force microscopy for perovskite solar cells. <i>Science China Materials</i> , 2019 , 62, 776-789	7.1	52
195	Monolithic Dual-Material 3D Printing of Ionic Skins with Long-Term Performance Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1904716	15.6	49
194	ZnO Nanotubes Grown at Low Temperature Using Ga as Catalysts and Their Enhanced Photocatalytic Activities. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10379-10383	3.8	49
193	Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 97, 223107	3.4	48
192	Layer Dependence and Light Tuning Surface Potential of 2D MoS on Various Substrates. <i>Small</i> , 2017 , 13, 1603103	11	47
191	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
190	Functional nanogenerators as vibration sensors enhanced by piezotronic effects. <i>Nano Research</i> , 2014 , 7, 190-198	10	47
189	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
188	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021 , 591, 385-390	50.4	47
187	Defect-Engineered Atomically Thin MoS Homogeneous Electronics for Logic Inverters. <i>Advanced Materials</i> , 2020 , 32, e1906646	24	46

186	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
185	Self-Healing Originated van der Waals Homo Junctions with Strong Interlayer Coupling for High-Performance Photodiodes. <i>ACS Nano</i> , 2019 , 13, 3280-3291	16.7	43
184	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
183	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
182	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
181	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
180	Recursive identification of time-varying systems: Self-tuning and matrix RLS algorithms. <i>Systems and Control Letters</i> , 2014 , 66, 104-110	2.4	37
179	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. <i>Nano Research</i> , 2017 , 10, 157-171	10	37
178	Synthesis and characterization of Zn _{1-x} Mn _x O nanowires. <i>Applied Physics Letters</i> , 2008 , 92, 162102	3.4	37
177	A-Site Management for Highly Crystalline Perovskites. <i>Advanced Materials</i> , 2020 , 32, e1904702	24	37
176	Directly printed wearable electronic sensing textiles towards human-machine interfaces. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12841-12848	7.1	37
175	Design of efficient dye-sensitized solar cells with patterned ZnO-ZnS core-shell nanowire array photoanodes. <i>Nanoscale</i> , 2014 , 6, 4691-7	7.7	35
174	A bioinspired analogous nerve towards artificial intelligence. <i>Nature Communications</i> , 2020 , 11, 268	17.4	34
173	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
172	Multi-unit hydroelectric generator based on contact electrification and its service behavior. <i>Nano Energy</i> , 2015 , 16, 329-338	17.1	33
171	Bioinspired Tribotronic Resistive Switching Memory for Self-Powered Memorizing Mechanical Stimuli. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43822-43829	9.5	32
170	Rationally encapsulated gold nanorods improving both linear and nonlinear photoacoustic imaging contrast in vivo. <i>Nanoscale</i> , 2017 , 9, 79-86	7.7	32
169	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

168	Design and tailoring of patterned ZnO nanostructures for energy conversion applications. <i>Science China Materials</i> , 2017 , 60, 793-810	7.1	31
167	Near-ideal van der Waals rectifiers based on all-two-dimensional Schottky junctions. <i>Nature Communications</i> , 2021 , 12, 1522	17.4	31
166	Self-catalytic Synthesis, Structures, and Properties of High-Quality Tetrapod-Shaped ZnO Nanostructures. <i>Crystal Growth and Design</i> , 2009 , 9, 1863-1868	3.5	30
165	Hetero-contact microstructure to program discerning tactile interactions for virtual reality. <i>Nano Energy</i> , 2019 , 60, 127-136	17.1	29
164	CuNiO nanoparticles assembled on graphene as an effective platform for enzyme-free glucose sensing. <i>Analytica Chimica Acta</i> , 2015 , 858, 49-54	6.6	29
163	Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. <i>Applied Physics Letters</i> , 2010 , 96, 253112	3.4	29
162	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
161	Saturated blue-violet electroluminescence from single ZnO micro/nanowire and p-GaN film hybrid light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 221103	3.4	28
160	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
159	Emerging Conductive Atomic Force Microscopy for Metal Halide Perovskite Materials and Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903922	21.8	27
158	Influence of carrier concentration on the resistive switching characteristics of a ZnO-based memristor. <i>Nano Research</i> , 2016 , 9, 1116-1124	10	27
157	Hidden Vacancy Benefit in Monolayer 2D Semiconductors. <i>Advanced Materials</i> , 2021 , 33, e2007051	24	27
156	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
155	A self-powered strain sensor based on a ZnO/PEDOT:PSS hybrid structure. <i>RSC Advances</i> , 2013 , 3, 17011	3.7	26
154	Gold nanoparticles coated zinc oxide nanorods as the matrix for enhanced L-lactate sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 476-80	6	26
153	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
152	Strain Engineering in 2D Material-Based Flexible Optoelectronics.. <i>Small Methods</i> , 2021 , 5, e2000919	12.8	26
151	Facile synthesis of NiCo2S4 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

150	Size effect in a cantilevered ZnO micro/nanowire and its potential as a performance tunable force sensor. <i>RSC Advances</i> , 2013 , 3, 19375	3.7	25
149	Strain-modulation and service behavior of Au/MgO/ZnO ultraviolet photodetector by piezo-phototronic effect. <i>Nano Research</i> , 2015 , 8, 3772-3779	10	25
148	Mechanical and longitudinal electromechanical properties of Sb-doped ZnO nanobelts. <i>CrystEngComm</i> , 2010 , 12, 2005	3.3	25
147	Size dependence and UV irradiation tuning of the surface potential in single conical ZnO nanowires. <i>RSC Advances</i> , 2015 , 5, 42075-42080	3.7	24
146	Optimal design of sintered Ce ₉ Nd ₂₁ FeBaB ₁ magnets with a low-melting-point (Ce,Nd)-rich phase. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 417-422	3.1	23
145	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. <i>Nature Nanotechnology</i> , 2020 , 15, 768-775	28.7	23
144	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
143	Hierarchically distributed microstructure design of haptic sensors for personalized fingertip mechanosensational manipulation. <i>Materials Horizons</i> , 2018 , 5, 920-931	14.4	22
142	Zinc oxide nanowires-based electrochemical biosensor for L-lactic acid amperometric detection. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	22
141	Ultraviolet and visible photoresponse properties of a ZnO/Si heterojunction at zero bias. <i>RSC Advances</i> , 2013 , 3, 17682	3.7	22
140	3D Holey-Graphene Architecture Expedites Ion Transport Kinetics to Push the OER Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001005	21.8	22
139	Solid and macroporous FeC/N-C nanofibers with enhanced electromagnetic wave absorbability. <i>Scientific Reports</i> , 2018 , 8, 16832	4.9	22
138	ZnO nano-array-based EGFET biosensor for glucose detection. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 807-811	2.6	21
137	Structural dependence of piezoelectric size effects and macroscopic polarization in ZnO nanowires: A first-principles study. <i>Nano Research</i> , 2015 , 8, 2073-2081	10	21
136	Ferroelectric polarization-enhanced charge separation in a vanadium-doped ZnO photoelectrochemical system. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1533-1539	6.8	21
135	Surpassing the Exciton Diffusion Limit in Single-Walled Carbon Nanotube Sensitized Solar Cells. <i>ACS Nano</i> , 2016 , 10, 11258-11265	16.7	21
134	Effect of carrier screening on ZnO-based resistive switching memory devices. <i>Nano Research</i> , 2017 , 10, 77-86	10	21
133	Controllable synthesis of well-dispersed and uniform-sized single crystalline zinc hydroxystannate nanocubes. <i>CrystEngComm</i> , 2010 , 12, 4156	3.3	21

132	Doping Effect on High-Pressure Structural Stability of ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1164-1167	3.8	21
131	Unique structural advances of graphdiyne for energy applications. <i>EnergyChem</i> , 2020 , 2, 100041	36.9	21
130	Manipulation of Perovskite Crystallization Kinetics via Lewis Base Additives. <i>Advanced Functional Materials</i> , 2021 , 31, 2009425	15.6	21
129	Graphdiyne Nanowall for Enhanced Photoelectrochemical Performance of Si Heterojunction Photoanode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2745-2749	9.5	20
128	Investigation of chemical composition and crystal structure in sintered Ce ₁₅ Nd ₁₅ FeBaB1 magnet. <i>AIP Advances</i> , 2014 , 4, 107127	1.5	20
127	Single-Atom Engineering to Ignite 2D Transition Metal Dichalcogenide Based Catalysis: Fundamentals, Progress, and Beyond. <i>Chemical Reviews</i> , 2021 ,	68.1	20
126	Nanorod arrays composed of zinc oxide modified with gold nanoparticles and glucose oxidase for enzymatic sensing of glucose. <i>Mikrochimica Acta</i> , 2015 , 182, 605-610	5.8	19
125	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
124	Integrated active sensor system for real time vibration monitoring. <i>Scientific Reports</i> , 2015 , 5, 16063	4.9	19
123	Atomic-Thin ZnO Sheet for Visible-Blind Ultraviolet Photodetection. <i>Small</i> , 2020 , 16, e2005520	11	19
122	Facile fabrication of large-scale patterned ZnO nanorod arrays with tunable arrangement, period and morphology. <i>CrystEngComm</i> , 2013 , 15, 8022	3.3	18
121	Electrically pumped lasing from single ZnO micro/nanowire and poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) hybrid heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 043119	3.4	18
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