

# Cao-Feng Pan

## 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.

244  
papers

16,069  
citations

68  
h-index

118  
g-index

254  
ext. papers

19,334  
ext. citations

13.3  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
244	Self-powered high-performance flexible GaN/ZnO heterostructure UV photodetectors with piezo-phototronic effect enhanced photoresponse. <i>Nano Energy</i> , <b>2022</b> , 94, 106945	17.1	14
243	Self-powered photodetector for ultralow power density UV sensing. <i>Nano Today</i> , <b>2022</b> , 43, 101399	17.9	13
242	Anisotropic magnetic liquid metal film for wearable wireless electromagnetic sensing and smart electromagnetic interference shielding. <i>Nano Energy</i> , <b>2022</b> , 92, 106700	17.1	20
241	Recent advances in curved image sensor arrays for bioinspired vision system. <i>Nano Today</i> , <b>2022</b> , 42, 101366	17.9	4
240	Molten Salt Shielded Synthesis of Monodisperse Layered CaZnOS-Based Semiconductors for Piezophotonic and X-Ray Detection Applications.. <i>Small</i> , <b>2022</b> , e2107437	11	3
239	A method for quantitatively separating the piezoelectric component from the as-received "Piezoelectric" signal.. <i>Nature Communications</i> , <b>2022</b> , 13, 1391	17.4	8
238	Biodegradable, Breathable Leaf Vein-Based Tactile Sensors with Tunable Sensitivity and Sensing Range.. <i>Small</i> , <b>2022</b> , 18, e2106906	11	4
237	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , <b>2022</b> , 4, 1-26	4	2
236	Strain-Insensitive Self-Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene-Elastomer Composite. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107281	15.6	7
235	Energy Conversion Analysis of Multi-Layered Triboelectric Nanogenerators for Synergistic Rain and Solar Energy Harvesting.. <i>Advanced Materials</i> , <b>2022</b> , e2202238	24	4
234	Anisotropic Carrier Mobility from 2H WSe. <i>Advanced Materials</i> , <b>2021</b> , e2108615	24	2
233	Flexible Conductive Polyimide Fiber/MXene Composite Film for Electromagnetic Interference Shielding and Joule Heating with Excellent Harsh Environment Tolerance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50368-50380	9.5	16
232	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	18
231	Piezophototronic Effect in Nanosensors. <i>Small Science</i> , <b>2021</b> , 1, 2000060		13
230	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multi-Color Fluorescent Anti-Counterfeiting Labels. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100229	6.8	10
229	Asymmetric Superhydrophobic Textiles for Electromagnetic Interference Shielding, Photothermal Conversion, and Solar Water Evaporation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28996-29007	9.5	19
228	Tunable and Nacre-Mimetic Multifunctional Electronic Skins for Highly Stretchable Contact-Noncontact Sensing. <i>Small</i> , <b>2021</b> , 17, e2100542	11	30

227	A Self-Powered Photodetector Based on MAPbI Single-Crystal Film/n-Si Heterojunction with Broadband Response Enhanced by Pyro-Phototronic and Piezo-Phototronic Effects. <i>Small</i> , <b>2021</b> , 17, e2101572	11	10
226	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2809-2816	20.1	14
225	A high performance CsPbBr <sub>3</sub> microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. <i>Nano Energy</i> , <b>2021</b> , 85, 105951	17.1	15
224	Highly-efficient all-inorganic lead-free 1D CsCu <sub>2</sub> I <sub>3</sub> single crystal for white-light emitting diodes and UV photodetection. <i>Nano Energy</i> , <b>2021</b> , 81, 105570	17.1	31
223	Epitaxial lift-off for controllable single-crystalline perovskites. <i>Science Bulletin</i> , <b>2021</b> , 66, 6-8	10.6	9
222	Mechanoluminescent materials for athletic analytics in sports science. <i>Science Bulletin</i> , <b>2021</b> , 66, 206-209	10.6	10
221	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retina-Like Vision Sensing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006006	24	30
220	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008006	15.6	127
219	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. <i>Nanoscale</i> , <b>2021</b> , 13, 9177-9184	7.7	3
218	Single-mode lasing of CsPbBr perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , <b>2021</b> , 13, 4432-4438	7.7	11
217	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 071103	3.4	3
216	Piezotronics in two-dimensional materials. <i>Information Materials</i> , <b>2021</b> , 3, 987-1007	23.1	14
215	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. <i>Nano Energy</i> , <b>2021</b> , 86, 106077	17.1	16
214	Piezo-phototronic effect enhanced performance of a p-ZnO NW based UV/vis/NIR photodetector. <i>Nano Energy</i> , <b>2021</b> , 86, 106090	17.1	3
213	Bioinspired Multifunctional Photonic-Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Self-Powered Sensing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102332	24	21
212	Multifunctional and superhydrophobic cellulose composite paper for electromagnetic shielding, hydraulic triboelectric nanogenerator and Joule heating applications. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129864	14.7	28
211	A multimodal ion electronic skin for decoupling temperature and strain. <i>Science Bulletin</i> , <b>2021</b> , 66, 2437-2447	10.6	0
210	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	9

209	Flexible Ag Microparticle/MXene-Based Film for Energy Harvesting. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 201	19.5	18
208	Metal Halide Perovskite Arrays: From Construction to Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005230	15.6	19
207	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. <i>Nature Communications</i> , <b>2020</b> , 11, 5629	17.4	24
206	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004290	24	83
205	Triboelectric-polarization-enhanced high sensitive ZnO UV sensor. <i>Nano Today</i> , <b>2020</b> , 33, 100873	17.9	20
204	Quantifying electron-transfer in liquid-solid contact electrification. <i>Science Bulletin</i> , <b>2020</b> , 65, 868-869	10.6	3
203	Triboelectric Nanogenerator Enhanced Schottky Nanowire Sensor for Highly Sensitive Ethanol Detection. <i>Nano Letters</i> , <b>2020</b> , 20, 4968-4974	11.5	38
202	Mechanism of magnetic field-modulated luminescence from lanthanide ions in inorganic crystal: a review. <i>Rare Metals</i> , <b>2020</b> , 39, 1113-1126	5.5	10
201	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 011404	17.3	16
200	Ultra-stretchable triboelectric nanogenerator as high-sensitive and self-powered electronic skins for energy harvesting and tactile sensing. <i>Nano Energy</i> , <b>2020</b> , 70, 104546	17.1	91
199	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. <i>Journal of Materiomics</i> , <b>2020</b> , 6, 86-101	6.7	40
198	Strain-modulated high-quality ZnO cavity modes on different crystal orientations. <i>Nanotechnology</i> , <b>2020</b> , 31, 225202	3.4	
197	Piezoelectricity in Multilayer Black Phosphorus for Piezotronics and Nanogenerators. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905795	24	43
196	Human spinal reflex like strain-controlled power devices based on piezotronic effect. <i>Science Bulletin</i> , <b>2020</b> , 65, 1228-1230	10.6	1
195	Flexible sliding sensor for simultaneous monitoring deformation and displacement on a robotic hand/arm. <i>Nano Energy</i> , <b>2020</b> , 73, 104764	17.1	26
194	High-performance Sb-doped p-ZnO NW films for self-powered piezoelectric strain sensors. <i>Nano Energy</i> , <b>2020</b> , 73, 104744	17.1	19
193	Mechanoluminescence materials for advanced artificial skin. <i>Science Bulletin</i> , <b>2020</b> , 65, 1147-1149	10.6	30
192	Piezotronic Synapse Based on a Single GaN Microwire for Artificial Sensory Systems. <i>Nano Letters</i> , <b>2020</b> , 20, 3761-3768	11.5	12

191	Recent progress in tactile sensors and their applications in intelligent systems. <i>Science Bulletin</i> , <b>2020</b> , 65, 70-88	10.6	65
190	CVD growth of perovskite/graphene films for high-performance flexible image sensor. <i>Science Bulletin</i> , <b>2020</b> , 65, 343-349	10.6	39
189	Lateral bipolar photoresistance effect in the CIGS heterojunction and its application in position sensitive detector and memory device. <i>Science Bulletin</i> , <b>2020</b> , 65, 477-485	10.6	14
188	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907999	15.6	39
187	Flexible GaN microwire-based piezotronic sensory memory device. <i>Nano Energy</i> , <b>2020</b> , 78, 105312	17.1	5
186	53-5: Late-News Paper: a-IGZO TFT Based Active Matrix Pressure Sensor by Integrating ZnO Nanowires as Sensing Unit. <i>Digest of Technical Papers SID International Symposium</i> , <b>2020</b> , 51, 789-791	0.5	1
185	Real-time pressure mapping smart insole system based on a controllable vertical pore dielectric layer. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 62	7.7	26
184	Force-induced charge carrier storage: a new route for stress recording. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 182	16.7	39
183	Recent Progress in Optoelectronic Synapses for Artificial Visual-Perception System. <i>Small Structures</i> , <b>2020</b> , 1, 2000029	8.7	33
182	WS <sub>2</sub> /CsPbBr <sub>3</sub> van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. <i>Nano Energy</i> , <b>2019</b> , 65, 104001	17.1	31
181	Tactile Sensors for Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900090	6	47
180	Ferroelectricity-induced performance enhancement of V-doped ZnO/Si photodetector by direct energy band modulation. <i>Nano Energy</i> , <b>2019</b> , 65, 104046	17.1	19
179	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <i>Nano Energy</i> , <b>2019</b> , 66, 104143	17.1	154
178	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. <i>Nano Energy</i> , <b>2019</b> , 58, 633-640	17.1	78
177	Investigating the interlayer electron transport and its influence on the whole electric properties of black phosphorus. <i>Science Bulletin</i> , <b>2019</b> , 64, 254-260	10.6	13
176	Wavelength-Tunable Micro/Nanolasers. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900275	8.1	10
175	Voltage-Driven Room-Temperature Resistance and Magnetization Switching in Ceramic TiO/PAA Nanoporous Composite Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21661-21667	9.5	26
174	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. <i>ACS Nano</i> , <b>2019</b> , 13, 5049-5057	16.7	17

173	Controllable Growth of Aligned Monocrystalline CsPbBr <sub>3</sub> Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900647	24	50
172	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. <i>ACS Nano</i> , <b>2019</b> , 13, 4507-4516	16.7	49
171	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite cuboids. <i>Science Bulletin</i> , <b>2019</b> , 64, 698-704	10.6	20
170	Transparent and stretchable triboelectric nanogenerator for self-powered tactile sensing. <i>Nano Energy</i> , <b>2019</b> , 59, 302-310	17.1	184
169	Coupled Ion-Gel Channel-Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807837	15.6	18
168	Fabrication of Large-Area Bimodal Sensors by All-Inkjet-Printing. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800703	6.8	26
167	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905051	15.6	34
166	Fiber-Integrated Reversibly Wavelength-Tunable Nanowire Laser Based on Nanocavity Mode Coupling. <i>ACS Nano</i> , <b>2019</b> , 13, 9965-9972	16.7	7
165	Laser-induced photoresistance effect in Si-based vertical standing MoS <sub>2</sub> nanoplate heterojunctions for self-powered high performance broadband photodetection. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10642-10651	7.1	12
164	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. <i>Chemical Reviews</i> , <b>2019</b> , 119, 9303-9359	68.1	112
163	Mechanoluminescence enhancement of ZnS:Cu,Mn with piezotronic effect induced trap-depth reduction originated from PVDF ferroelectric film. <i>Nano Energy</i> , <b>2019</b> , 63, 103861	17.1	28
162	Electronic Skin for Closed-Loop Systems. <i>ACS Nano</i> , <b>2019</b> , 13, 12287-12293	16.7	59
161	Ultrabroadband, Large Sensitivity Position Sensitivity Detector Based on a Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> /Si Heterojunction and Its Performance Improvement by Pyro-Phototronic Effect. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900786	6.4	17
160	Two Photon-Pumped Whispering-Gallery Mode Lasing and Dynamic Regulation. <i>Advanced Science</i> , <b>2019</b> , 6, 1900916	13.6	8
159	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , <b>2019</b> , 59, 422-433	17.1	113
158	Activating MoS <sub>2</sub> basal planes for hydrogen evolution through direct CVD morphology control. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27603-27611	13	12
157	Triboiontronic Transistor of MoS. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806905	24	54
156	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , <b>2019</b> , 24, 33-40	21.8	21

155	Flexible Photodetector Arrays Based on Patterned CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805913	24	110
154	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , <b>2019</b> , 55, 389-400	17.1	87
153	Facile access to shape-controlled growth of WS <sub>2</sub> monolayer via environment-friendly method. <i>2D Materials</i> , <b>2019</b> , 6, 015007	5.9	10
152	Self-Powered Tactile Sensor Array Systems Based on the Triboelectric Effect. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806379	15.6	68
151	Piezoelectric Polyacrylonitrile Nanofiber Film-Based Dual-Function Self-Powered Flexible Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15855-15863	9.5	83
150	Piezophototronic Effect Enhanced Photoresponse of the Flexible Cu(In,Ga)Se <sub>2</sub> (CIGS) Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707311	15.6	45
149	Detection and quantification of phenol in liquid and gas phases using a clay/dye composite. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 62, 284-290	6.3	7
148	A Highly Stretchable Transparent Self-Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706738	24	230
147	Piezo-Phototronic Effect Modulated Deep UV Photodetector Based on ZnO-Ga <sub>2</sub> O <sub>3</sub> Heterojunction Microwire. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706379	15.6	101
146	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. <i>Nature Communications</i> , <b>2018</b> , 9, 244	17.4	710
145	A vertically layered MoS <sub>2</sub> /Si heterojunction for an ultrahigh and ultrafast photoresponse photodetector. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3233-3239	7.1	89
144	Tunable Tribotronic Dual-Gate Logic Devices Based on 2D MoS <sub>2</sub> and Black Phosphorus. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705088	24	66
143	Printable Skin-Driven Mechanoluminescence Devices via Nanodoped Matrix Modification. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800291	24	108
142	Networks of High Performance Triboelectric Nanogenerators Based on Liquid-Solid Interface Contact Electrification for Harvesting Low-Frequency Blue Energy. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800705	21.8	104
141	ZnO nanowire based CIGS solar cell and its efficiency enhancement by the piezo-phototronic effect. <i>Nano Energy</i> , <b>2018</b> , 49, 508-514	17.1	66
140	High Br Content CsPb(Cl Br) Perovskite Nanocrystals with Strong Mn Emission through Diverse Cation/Anion Exchange Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11739-11746	9.5	74
139	Oxygen-assisted preparation of mechanoluminescent ZnS:Mn for dynamic pressure mapping. <i>Nano Research</i> , <b>2018</b> , 11, 1967-1976	10	32
138	Recent progress in flexible pressure sensor arrays: from design to applications. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11878-11892	7.1	116

137	Progress in piezotronic and piezo-phototronic effect of 2D materials. <i>2D Materials</i> , <b>2018</b> , 5, 042003	5.9	41
136	Tunable single-mode lasing in a single semiconductor microrod. <i>Optics Express</i> , <b>2018</b> , 26, 30021-30029	3.3	3
135	Ultrahigh, Ultrafast, and Self-Powered Visible-Near-Infrared Optical Position-Sensitive Detector Based on a CVD-Prepared Vertically Standing Few-Layer MoS/Si Heterojunction. <i>Advanced Science</i> , <b>2018</b> , 5, 1700502	13.6	57
134	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. <i>ACS Nano</i> , <b>2018</b> , 12, 11899-11906	16.7	96
133	Piezo-phototronic effect on optoelectronic nanodevices. <i>MRS Bulletin</i> , <b>2018</b> , 43, 952-958	3.2	29
132	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1801061	4.6	31
131	Large and Ultrastable All-Inorganic CsPbBr Monocrystalline Films: Low-Temperature Growth and Application for High-Performance Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802110	24	65
130	Piezo-phototronic Effect Enhanced Photodetector Based on CHNHPbI Single Crystals. <i>ACS Nano</i> , <b>2018</b> , 12, 10501-10508	16.7	48
129	InO Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. <i>ACS Nano</i> , <b>2018</b> , 12, 9608-9616	16.7	23
128	The Exploration of Carrier Behavior in the Inverted Mixed Perovskite Single-Crystal Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800224	4.6	38
127	MoS Negative-Capacitance Field-Effect Transistors with Subthreshold Swing below the Physics Limit. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800932	24	61
126	Piezo-Phototronic Effect for Enhanced Flexible MoS <sub>2</sub> /WSe <sub>2</sub> van der Waals Photodiodes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802849	15.6	90
125	Mechanically induced strong red emission in samarium ions doped piezoelectric semiconductor CaZnOS for dynamic pressure sensing and imaging. <i>Optics Communications</i> , <b>2017</b> , 395, 24-28	2	33
124	Full Dynamic-Range Pressure Sensor Matrix Based on Optical and Electrical Dual-Mode Sensing. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605817	24	129
123	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. <i>ACS Nano</i> , <b>2017</b> , 11, 1894-1900	16.7	55
122	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. <i>APL Materials</i> , <b>2017</b> , 5, 074104	5.7	40
121	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701253	24	43
120	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. <i>ACS Photonics</i> , <b>2017</b> , 4, 1344-1349	6.3	53



119	Flexibly and Repeatedly Modulating Lasing Wavelengths in a Single Core-Shell Semiconductor Microrod. <i>ACS Nano</i> , <b>2017</b> , 11, 5808-5814	16.7	19
118	Piezotronics and piezo-phototronics based on-axis nano/microwires: fundamentals and applications. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 043005	1.8	19
117	Flexible Light Emission Diode Arrays Made of Transferred Si Microwires-ZnO Nanofilm with Piezo-Phototronic Effect Enhanced Lighting. <i>ACS Nano</i> , <b>2017</b> , 11, 3883-3889	16.7	42
116	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. <i>Nano Energy</i> , <b>2017</b> , 34, 578-585	17.1	83
115	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , <b>2017</b> , 4, 1600435	13.6	135
114	Recent progress in piezo-phototronics with extended materials, application areas and understanding. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 053002	1.8	14
113	Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700051	15.6	72
112	"Energy Relay Center" for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1190-1208	3.6	27
111	Plasmon-Induced Accelerated Exciton Recombination Dynamics in ZnO/Ag Hybrid Nanolasers. <i>ACS Photonics</i> , <b>2017</b> , 4, 2419-2424	6.3	33
110	Self-powered Real-time Movement Monitoring Sensor Using Triboelectric Nanogenerator Technology. <i>Scientific Reports</i> , <b>2017</b> , 7, 10521	4.9	47
109	Triboelectrification-enabled touch sensing for self-powered position mapping and dynamic tracking by a flexible and area-scalable sensor array. <i>Nano Energy</i> , <b>2017</b> , 41, 387-393	17.1	50
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104	Self-selection mechanism of Fabry-Pérot micro/nanoscale wire cavity for single-mode lasing. <i>Optics Express</i> , <b>2017</b> , 25, 21025-21036	3.3	6
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