

Cao-Feng Pan

List of Publications by Year in descending order

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249
papers

23,063
citations

5876

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141
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254
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times ranked

17807
citing authors

#	ARTICLE	IF	CITATIONS
1	Biologically Inspired Stretchable, Multifunctional, and 3D Electronic Skin by Strain Visualization and Triboelectric Pressure Sensing. <i>Small Science</i> , 2022, 2, 2100083.	5.8	34
2	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	81
3	Anisotropic magnetic liquid metal film for wearable wireless electromagnetic sensing and smart electromagnetic interference shielding. <i>Nano Energy</i> , 2022, 92, 106700.	8.2	108
4	Ferro-Pyro-Phototronic Effect in Monocrystalline 2D Ferroelectric Perovskite for High-Sensitive, Self-Powered, and Stable Ultraviolet Photodetector. <i>ACS Nano</i> , 2022, 16, 1280-1290.	7.3	45
5	Recent advances in curved image sensor arrays for bioinspired vision system. <i>Nano Today</i> , 2022, 42, 101366.	6.2	16
6	Bimodal Tactile Sensor without Signal Fusion for User-Interactive Applications. <i>ACS Nano</i> , 2022, 16, 2789-2797.	7.3	54
7	Anisotropic Carrier Mobility from 2H WSe ₂ . <i>Advanced Materials</i> , 2022, 34, e2108615.	11.1	11
8	Self-powered high-performance flexible GaN/ZnO heterostructure UV photodetectors with piezo-phototronic effect enhanced photoresponse. <i>Nano Energy</i> , 2022, 94, 106945.	8.2	73
9	Self-powered photodetector for ultralow power density UV sensing. <i>Nano Today</i> , 2022, 43, 101399.	6.2	57
10	Molten Salt Shielded Synthesis of Monodisperse Layered CaZnOS ₄ -Based Semiconductors for Piezophotonic and X _α Ray Detection Applications. <i>Small</i> , 2022, 18, e2107437.	5.2	20
11	Bidirectional Photoresponse in Perovskite α ZnO Heterostructure for Fully Optical α Controlled Artificial Synapse. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	30
12	A method for quantitatively separating the piezoelectric component from the as-received α -Piezoelectric α signal. <i>Nature Communications</i> , 2022, 13, 1391.	5.8	68
13	Research Progress on Hydrogel α Elastomer Adhesion. <i>Materials</i> , 2022, 15, 2548.	1.3	6
14	Biodegradable, Breathable Leaf Vein α Based Tactile Sensors with Tunable Sensitivity and Sensing Range. <i>Small</i> , 2022, 18, e2106906.	5.2	28
15	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	2.0	20
16	Strain α Insensitive Self α Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene α Elastomer Composite. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	47
17	Energy Conversion Analysis of Multilayered Triboelectric Nanogenerators for Synergistic Rain and Solar Energy Harvesting. <i>Advanced Materials</i> , 2022, 34, e2202238.	11.1	63
18	Highly-efficient all-inorganic lead-free 1D CsCu ₂ I ₃ single crystal for white-light emitting diodes and UV photodetection. <i>Nano Energy</i> , 2021, 81, 105570.	8.2	100

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19	Epitaxial lift-off for controllable single-crystalline perovskites. <i>Science Bulletin</i> , 2021, 66, 6-8.	4.3	18
20	Mechanoluminescent materials for athletic analytics in sports science. <i>Science Bulletin</i> , 2021, 66, 206-209.	4.3	27
21	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retina-Like Vision Sensing. <i>Advanced Materials</i> , 2021, 33, e2006006.	11.1	87
22	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008006.	7.8	340
23	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. <i>Nanoscale</i> , 2021, 13, 9177-9184.	2.8	8
24	Single-mode lasing of CsPbBr ₃ perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , 2021, 13, 4432-4438.	2.8	25
25	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	11
26	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. <i>Science Advances</i> , 2021, 7, .	4.7	65
27	Piezophototronic Effect in Nanosensors. <i>Small Science</i> , 2021, 1, 2000060.	5.8	28
28	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multi-Color Fluorescent Anti-Counterfeiting Labels. <i>Advanced Materials Technologies</i> , 2021, 6, 2100229.	3.0	26
29	Asymmetric Superhydrophobic Textiles for Electromagnetic Interference Shielding, Photothermal Conversion, and Solar Water Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28996-29007.	4.0	65
30	Tunable and Nacre-Mimetic Multifunctional Electronic Skins for Highly Stretchable Contact/Noncontact Sensing. <i>Small</i> , 2021, 17, e2100542.	5.2	69
31	A Self-Powered Photodetector Based on MAPbI ₃ Single-Crystal Film/n-Si Heterojunction with Broadband Response Enhanced by Pyro-Phototronic and Piezo-Phototronic Effects. <i>Small</i> , 2021, 17, e2101572.	5.2	32
32	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , 2021, 6, 2809-2816.	8.8	48
33	A high performance CsPbBr ₃ microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. <i>Nano Energy</i> , 2021, 85, 105951.	8.2	38
34	Piezotronics in two-dimensional materials. <i>Informa-Materials</i> , 2021, 3, 987-1007.	8.5	54
35	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. <i>Nano Energy</i> , 2021, 86, 106077.	8.2	44
36	Piezo-phototronic effect enhanced performance of a p-ZnO NW based UV-Vis-NIR photodetector. <i>Nano Energy</i> , 2021, 86, 106090.	8.2	17

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37	Bioinspired Multifunctional Photonic-Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Self-Powered Sensing. <i>Advanced Materials</i> , 2021, 33, e2102332.	11.1	107
38	Multifunctional and superhydrophobic cellulose composite paper for electromagnetic shielding, hydraulic triboelectric nanogenerator and Joule heating applications. <i>Chemical Engineering Journal</i> , 2021, 420, 129864.	6.6	79
39	Mechanoluminescent hybrids from a natural resource for energy-related applications. <i>Informa-Materials</i> , 2021, 3, 1272-1284.	8.5	53
40	A multimodal ion electronic skin for decoupling temperature and strain. <i>Science Bulletin</i> , 2021, 66, 2437-2437.	4.3	2
41	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. <i>Nanotechnology</i> , 2021, 32, 475204.	1.3	18
42	Flexible Ag Microparticle/MXene-Based Film for Energy Harvesting. <i>Nano-Micro Letters</i> , 2021, 13, 201.	14.4	57
43	Metal Halide Perovskite Arrays: From Construction to Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005230.	7.8	40
44	Flexible Conductive Polyimide Fiber/MXene Composite Film for Electromagnetic Interference Shielding and Joule Heating with Excellent Harsh Environment Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50368-50380.	4.0	85
45	Front Cover Image. <i>Informa-Materials</i> , 2021, 3, .	8.5	2
46	Recent progress in tactile sensors and their applications in intelligent systems. <i>Science Bulletin</i> , 2020, 65, 70-88.	4.3	132
47	CVD growth of perovskite/graphene films for high-performance flexible image sensor. <i>Science Bulletin</i> , 2020, 65, 343-349.	4.3	72
48	Lateral bipolar photoresistance effect in the CIGS heterojunction and its application in position sensitive detector and memory device. <i>Science Bulletin</i> , 2020, 65, 477-485.	4.3	28
49	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. <i>Advanced Functional Materials</i> , 2020, 30, 1907999.	7.8	61
50	Flexible GaN microwire-based piezotronic sensory memory device. <i>Nano Energy</i> , 2020, 78, 105312.	8.2	13
51	53: Late-News Paper: IGZO TFT Based Active Matrix Pressure Sensor by Integrating ZnO Nanowires as Sensing Unit. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 789-791.	0.1	1
52	Real-time pressure mapping smart insole system based on a controllable vertical pore dielectric layer. <i>Microsystems and Nanoengineering</i> , 2020, 6, 62.	3.4	69
53	Force-induced charge carrier storage: a new route for stress recording. <i>Light: Science and Applications</i> , 2020, 9, 182.	7.7	83
54	Recent Progress in Optoelectronic Synapses for Artificial Visual-Perception System. <i>Small Structures</i> , 2020, 1, 2000029.	6.9	90

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55	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. <i>Nature Communications</i> , 2020, 11, 5629.	5.8	48
56	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , 2020, 32, e2004290.	11.1	210
57	Triboelectric-polarization-enhanced high sensitive ZnO UV sensor. <i>Nano Today</i> , 2020, 33, 100873.	6.2	33
58	Quantifying electron-transfer in liquid-solid contact electrification. <i>Science Bulletin</i> , 2020, 65, 868-869.	4.3	7
59	Triboelectric Nanogenerator Enhanced Schottky Nanowire Sensor for Highly Sensitive Ethanol Detection. <i>Nano Letters</i> , 2020, 20, 4968-4974.	4.5	58
60	Mechanism of magnetic field-modulated luminescence from lanthanide ions in inorganic crystal: a review. <i>Rare Metals</i> , 2020, 39, 1113-1126.	3.6	18
61	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	30
62	Ultra-stretchable triboelectric nanogenerator as high-sensitive and self-powered electronic skins for energy harvesting and tactile sensing. <i>Nano Energy</i> , 2020, 70, 104546.	8.2	171
63	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. <i>Journal of Materiomics</i> , 2020, 6, 86-101.	2.8	102
64	Strain-modulated high-quality ZnO cavity modes on different crystal orientations. <i>Nanotechnology</i> , 2020, 31, 225202.	1.3	0
65	Piezoelectricity in Multilayer Black Phosphorus for Piezotronics and Nanogenerators. <i>Advanced Materials</i> , 2020, 32, e1905795.	11.1	84
66	Human spinal reflex like strain-controlled power devices based on piezotronic effect. <i>Science Bulletin</i> , 2020, 65, 1228-1230.	4.3	1
67	Flexible sliding sensor for simultaneous monitoring deformation and displacement on a robotic hand/arm. <i>Nano Energy</i> , 2020, 73, 104764.	8.2	58
68	High-performance Sb-doped p-ZnO NW films for self-powered piezoelectric strain sensors. <i>Nano Energy</i> , 2020, 73, 104744.	8.2	52
69	Mechanoluminescence materials for advanced artificial skin. <i>Science Bulletin</i> , 2020, 65, 1147-1149.	4.3	62
70	Piezotronic Synapse Based on a Single GaN Microwire for Artificial Sensory Systems. <i>Nano Letters</i> , 2020, 20, 3761-3768.	4.5	26
71	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1905051.	7.8	56
72	Fiber-Integrated Reversibly Wavelength-Tunable Nanowire Laser Based on Nanocavity Mode Coupling. <i>ACS Nano</i> , 2019, 13, 9965-9972.	7.3	11

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73	Laser-induced photoresistance effect in Si-based vertical standing MoS ₂ nanoplate heterojunctions for self-powered high performance broadband photodetection. Journal of Materials Chemistry C, 2019, 7, 10642-10651.	2.7	24
74	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. Chemical Reviews, 2019, 119, 9303-9359.	23.0	213
75	Mechanoluminescence enhancement of ZnS:Cu,Mn with piezotronic effect induced trap-depth reduction originated from PVDF ferroelectric film. Nano Energy, 2019, 63, 103861.	8.2	50
76	Electronic Skin for Closed-Loop Systems. ACS Nano, 2019, 13, 12287-12293.	7.3	103
77	Ultrabroadband, Large Sensitivity Position Sensitivity Detector Based on a Bi ₂ Te _{2.7} Se _{0.3} /Si Heterojunction and Its Performance Improvement by Pyro-Phototronic Effect. Advanced Electronic Materials, 2019, 5, 1900786.	2.6	33
78	Two Photon-Pumped Whispering-Gallery Mode Lasing and Dynamic Regulation. Advanced Science, 2019, 6, 1900916.	5.6	9
79	WS ₂ /CsPbBr ₃ van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. Nano Energy, 2019, 65, 104001.	8.2	48
80	Tactile Sensors for Advanced Intelligent Systems. Advanced Intelligent Systems, 2019, 1, 1900090.	3.3	80
81	Ferroelectricity-induced performance enhancement of V-doped ZnO/Si photodetector by direct energy band modulation. Nano Energy, 2019, 65, 104046.	8.2	36
82	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. Nano Energy, 2019, 66, 104143.	8.2	249
83	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. Nano Energy, 2019, 58, 633-640.	8.2	120
84	Investigating the interlayer electron transport and its influence on the whole electric properties of black phosphorus. Science Bulletin, 2019, 64, 254-260.	4.3	16
85	Wavelength-Tunable Micro/Nanolasers. Advanced Optical Materials, 2019, 7, 1900275.	3.6	13
86	Voltage-Driven Room-Temperature Resistance and Magnetization Switching in Ceramic TiO ₂ /PAA Nanoporous Composite Films. ACS Applied Materials & Interfaces, 2019, 11, 21661-21667.	4.0	35
87	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. ACS Nano, 2019, 13, 5049-5057.	7.3	21
88	Controllable Growth of Aligned Monocrystalline CsPbBr ₃ Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. Advanced Materials, 2019, 31, e1900647.	11.1	76
89	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	7.3	82
90	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH ₃ NH ₃ PbBr ₃ perovskite cuboids. Science Bulletin, 2019, 64, 698-704.	4.3	33

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91	Transparent and stretchable triboelectric nanogenerator for self-powered tactile sensing. <i>Nano Energy</i> , 2019, 59, 302-310.	8.2	285
92	Coupled Ion-Gel Channel-Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1807837.	7.8	27
93	Fabrication of Large-Area Bimodal Sensors by Inkjet-Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800703.	3.0	40
94	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , 2019, 59, 422-433.	8.2	198
95	Activating MoS ₂ basal planes for hydrogen evolution through direct CVD morphology control. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27603-27611.	5.2	24
96	Triboiontronic Transistor of MoS ₂ . <i>Advanced Materials</i> , 2019, 31, e1806905.	11.1	93
97	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , 2019, 24, 33-40.	8.3	32
98	Flexible Photodetector Arrays Based on Patterned CH ₃ NH ₃ PbI ₃ Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , 2019, 31, e1805913.	11.1	174
99	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , 2019, 55, 389-400.	8.2	126
100	Facile access to shape-controlled growth of WS ₂ monolayer via environment-friendly method. <i>2D Materials</i> , 2019, 6, 015007.	2.0	18
101	Self-Powered Tactile Sensor Array Systems Based on the Triboelectric Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1806379.	7.8	122
102	Piezoelectric Polyacrylonitrile Nanofiber Film-Based Dual-Function Self-Powered Flexible Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15855-15863.	4.0	132
103	Piezophototronic Effect Enhanced Photoresponse of the Flexible Cu(In,Ga)Se ₂ (CIGS) Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1707311.	7.8	58
104	Detection and quantification of phenol in liquid and gas phases using a clay/dye composite. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 284-290.	2.9	9
105	A Highly Stretchable Transparent Self-Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1706738.	11.1	315
106	Piezophototronic Effect Modulated Deep UV Photodetector Based on ZnO/Ga ₂ O ₃ Heterojunction Microwire. <i>Advanced Functional Materials</i> , 2018, 28, 1706379.	7.8	126
107	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. <i>Nature Communications</i> , 2018, 9, 244.	5.8	1,034
108	A vertically layered MoS ₂ /Si heterojunction for an ultrahigh and ultrafast photoresponse photodetector. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3233-3239.	2.7	132

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109	Tunable Triboelectric Dual-Gate Logic Devices Based on 2D MoS ₂ and Black Phosphorus. <i>Advanced Materials</i> , 2018, 30, e1705088.	11.1	105
110	Printable Skin-Driven Mechanoluminescence Devices via Nanodoped Matrix Modification. <i>Advanced Materials</i> , 2018, 30, e1800291.	11.1	178
111	Networks of High Performance Triboelectric Nanogenerators Based on Liquid-Solid Interface Contact Electrification for Harvesting Low-Frequency Blue Energy. <i>Advanced Energy Materials</i> , 2018, 8, 1800705.	10.2	182
112	ZnO nanowire based CIGS solar cell and its efficiency enhancement by the piezo-phototronic effect. <i>Nano Energy</i> , 2018, 49, 508-514.	8.2	95
113	High Br Content CsPb(Cl) _{1-x} Br _x Perovskite Nanocrystals with Strong Mn ²⁺ Emission through Diverse Cation/Anion Exchange Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11739-11746.	4.0	92
114	Oxygen-assisted preparation of mechanoluminescent ZnS:Mn for dynamic pressure mapping. <i>Nano Research</i> , 2018, 11, 1967-1976.	5.8	45
115	Ultrahigh, Ultrafast, and Self-Powered Visible-Near-Infrared Optical Position-Sensitive Detector Based on a CVD-Prepared Vertically Standing Few-Layer MoS ₂ /Si Heterojunction. <i>Advanced Science</i> , 2018, 5, 1700502.	5.6	87
116	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. <i>ACS Nano</i> , 2018, 12, 11899-11906.	7.3	51
117	Piezo-phototronic effect on optoelectronic nanodevices. <i>MRS Bulletin</i> , 2018, 43, 952-958.	1.7	38
118	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801061.	1.9	48
119	Large and Ultrastable All-Inorganic CsPbBr ₃ Monocrystalline Films: Low-Temperature Growth and Application for High-Performance Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1802110.	11.1	94
120	Piezo-phototronic Effect Enhanced Photodetector Based on CH ₃ NH ₃ PbI ₃ Single Crystals. <i>ACS Nano</i> , 2018, 12, 10501-10508.	7.3	67
121	In ₂ O ₃ Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. <i>ACS Nano</i> , 2018, 12, 9608-9616.	7.3	32
122	The Exploration of Carrier Behavior in the Inverted Mixed Perovskite Single-Crystal Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800224.	1.9	58
123	MoS ₂ Negative-Capacitance Field-Effect Transistors with Subthreshold Swing below the Physics Limit. <i>Advanced Materials</i> , 2018, 30, e1800932.	11.1	87
124	Piezo-Phototronic Effect for Enhanced Flexible MoS ₂ /WSe ₂ van der Waals Photodiodes. <i>Advanced Functional Materials</i> , 2018, 28, 1802849.	7.8	130
125	Recent progress in flexible pressure sensor arrays: from design to applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11878-11892.	2.7	194
126	Progress in piezotronic and piezo-phototronic effect of 2D materials. <i>2D Materials</i> , 2018, 5, 042003.	2.0	62

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127	Tunable single-mode lasing in a single semiconductor microrod. <i>Optics Express</i> , 2018, 26, 30021.	1.7	6
128	Mechanically induced strong red emission in samarium ions doped piezoelectric semiconductor CaZnOS for dynamic pressure sensing and imaging. <i>Optics Communications</i> , 2017, 395, 24-28.	1.0	40
129	Full Dynamic-Range Pressure Sensor Matrix Based on Optical and Electrical Dual-Mode Sensing. <i>Advanced Materials</i> , 2017, 29, 1605817.	11.1	176
130	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2017, 11, 1894-1900.	7.3	79
131	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. <i>APL Materials</i> , 2017, 5, .	2.2	53
132	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. <i>Advanced Materials</i> , 2017, 29, 1701253.	11.1	59
133	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. <i>ACS Photonics</i> , 2017, 4, 1344-1349.	3.2	65
134	Flexibly and Repeatedly Modulating Lasing Wavelengths in a Single Core-Shell Semiconductor Microrod. <i>ACS Nano</i> , 2017, 11, 5808-5814.	7.3	26
135	Piezotronics and piezo-phototronics based on <i>i</i> -axis nano/microwires: fundamentals and applications. <i>Semiconductor Science and Technology</i> , 2017, 32, 043005.	1.0	22
136	Flexible Light Emission Diode Arrays Made of Transferred Si Microwires-ZnO Nanofilm with Piezo-Phototronic Effect Enhanced Lighting. <i>ACS Nano</i> , 2017, 11, 3883-3889.	7.3	53
137	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. <i>Nano Energy</i> , 2017, 34, 578-585.	8.2	128
138	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	5.6	175
139	Recent progress in piezo-phototronics with extended materials, application areas and understanding. <i>Semiconductor Science and Technology</i> , 2017, 32, 053002.	1.0	22
140	Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. <i>Advanced Functional Materials</i> , 2017, 27, 1700051.	7.8	89
141	Energy Relay Center for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1190-1208.	1.3	35
142	Plasmon-Induced Accelerated Exciton Recombination Dynamics in ZnO/Ag Hybrid Nanolasers. <i>ACS Photonics</i> , 2017, 4, 2419-2424.	3.2	38
143	Self-powered Real-time Movement Monitoring Sensor Using Triboelectric Nanogenerator Technology. <i>Scientific Reports</i> , 2017, 7, 10521.	1.6	77
144	Triboelectrification-enabled touch sensing for self-powered position mapping and dynamic tracking by a flexible and area-scalable sensor array. <i>Nano Energy</i> , 2017, 41, 387-393.	8.2	69

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145	Enhanced photoresponsivity of the MoS ₂ -GaN heterojunction diode via the piezo-phototronic effect. NPG Asia Materials, 2017, 9, e418-e418.	3.8	57
146	Flexible electrically pumped random lasing from ZnO nanowires based on metal-insulator-semiconductor structure. Chinese Physics B, 2017, 26, 067301.	0.7	9
147	Performance Limits of the Self-Aligned Nanowire Top-Gated MoS ₂ Transistors. Advanced Functional Materials, 2017, 27, 1602250.	7.8	37
148	A titanium dioxide nanorod array as a high-affinity nano-bio interface of a microfluidic device for efficient capture of circulating tumor cells. Nano Research, 2017, 10, 776-784.	5.8	22
149	Self-selection mechanism of Fabry-Pérot micro/nanoscale wire cavity for single-mode lasing. Optics Express, 2017, 25, 21025.	1.7	9
150	Efficiency enhance the photoluminescence of ZnO nanowires array by the surface plasmonic effect of Au nanoparticles. International Journal of Nanomanufacturing, 2016, 12, 308.	0.3	0
151	Functional Devices for Clean Energy and Advanced Sensor Applications. Journal of Nanomaterials, 2016, 2016, 1-2.	1.5	0
152	Recent progress of ZnO hierarchical nanostructure for photovoltaic application. International Journal of Nanomanufacturing, 2016, 12, 336.	0.3	2
153	Progress in Piezo-Phototronic-Effect-Enhanced Light-Emitting Diodes and Pressure Imaging. Advanced Materials, 2016, 28, 1535-1552.	11.1	110
154	Dynamic Triboelectrification-Induced Electroluminescence and its Use in Visualized Sensing. Advanced Materials, 2016, 28, 6656-6664.	11.1	140
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