

# Tian-Ling Ren

## List of Publications by Year in descending order

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297  
papers

12,049  
citations

31976

53  
h-index

30922

102  
g-index

300  
all docs

300  
docs citations

300  
times ranked

12687  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress of continuous intraocular pressure monitoring. <i>Nano Select</i> , 2022, 3, 1-19.	3.7	4
2	Highly stretchable and conformal electromagnetic interference shielding armor with strain sensing ability. <i>Chemical Engineering Journal</i> , 2022, 431, 133908.	12.7	15
3	Industrial-scale production of high-quality graphene sheets by millstone grinders. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 164002.	2.8	2
4	An intelligent nanomesh-reinforced graphene pressure sensor with an ultra large linear range. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4858-4869.	10.3	14
5	High-throughput DNA Tensioner Platform for Interrogating Mechanical Heterogeneity of Single Living Cells. <i>Small</i> , 2022, 18, e2106196.	10.0	15
6	Impact of Molybdenum Oxide Electrode on the Ferroelectricity of Doped-Hafnia Oxide Capacitors. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1492-1496.	3.0	8
7	Review on Organic-Inorganic Two-Dimensional Perovskite-Based Optoelectronic Devices. <i>ACS Applied Electronic Materials</i> , 2022, 4, 547-567.	4.3	35
8	Intelligent and highly sensitive strain sensor based on indium tin oxide micromesh with a high crack density. <i>Nanoscale</i> , 2022, 14, 4234-4243.	5.6	6
9	Mini-review: Novel Graphene-based Acoustic Devices. <i>Sensors and Actuators Reports</i> , 2022, 4, 100086.	4.4	2
10	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , 2022, 18, e2104810.	10.0	42
11	A Better Zn-Ion Storage Device: Recent Progress for Zn-Ion Hybrid Supercapacitors. <i>Nano-Micro Letters</i> , 2022, 14, 64.	27.0	65
12	Humidity-Based Human-Machine Interaction System for Healthcare Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 12606-12616.	8.0	22
13	Vertical MoS <sub>2</sub> transistors with sub-1-nm gate lengths. <i>Nature</i> , 2022, 603, 259-264.	27.8	251
14	Electrooculography and Tactile Perception Collaborative Interface for 3D Human-Machine Interaction. <i>ACS Nano</i> , 2022, 16, 6687-6699.	14.6	44
15	Skin-Mimicking, Stretchable Photodetector for Skin-Customized Ultraviolet Dosimetry. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	6
16	Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum. <i>Science Advances</i> , 2022, 8, eabn2156.	10.3	62
17	Exploration of the Mass Sensitivity of Quartz Crystal Microbalance under Overtone Modes Using Electrodeposition Method. <i>Analytical Chemistry</i> , 2022, 94, 5760-5768.	6.5	2
18	Nomex paper-based double-sided laser-induced graphene for multifunctional human-machine interfaces. <i>Carbon</i> , 2022, 193, 68-76.	10.3	13

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19	Ultrathin encapsulated rGO strain sensor for gesture recognition. <i>Microelectronic Engineering</i> , 2022, 259, 111779.	2.4	10
20	Biocompatible Sensors Are Revolutionizing Healthcare Technologies. , 2022, , 227-249.		1
21	Ultra-Low Voltage Schmitt Triggers Implemented by HfO <sub>2</sub> -Based Ferroelectric Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2022, 43, 1145-1148.	3.9	1
22	Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4526.	2.5	12
23	Electrospun Nanofibers for Integrated Sensing, Storage, and Computing Applications. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4370.	2.5	6
24	Deep Learning Enabled High-Performance Speech Command Recognition on Graphene Flexible Microphones. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2306-2312.	4.3	5
25	The Trend of 2D Transistors toward Integrated Circuits: Scaling Down and New Mechanisms. <i>Advanced Materials</i> , 2022, 34, e2201916.	21.0	37
26	Quasi-Fermi-Level Phase Space and its Applications in Ambipolar Two-Dimensional Field-Effect Transistors. <i>Physical Review Applied</i> , 2022, 17, .	3.8	2
27	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. <i>ACS Nano</i> , 2022, 16, 10199-10208.	14.6	25
28	Cs <sub>2</sub> AgBiBr <sub>6</sub> -Tellurium heterojunction-based high-performance X-ray detectors. , 2022, , .		1
29	A Low-cost, Low-power, and Practical Nano-heterojunction Pollution Gas Sensor Based on Accurate Dielectrophoresis Technology. , 2022, , .		0
30	Electromyogram-strain synergetic intelligent artificial throat. <i>Chemical Engineering Journal</i> , 2022, 449, 137741.	12.7	11
31	Light-Controlled Reconfigurable Optical Synapse Based on Carbon Nanotubes/2D Perovskite Heterostructure for Image Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28221-28229.	8.0	6
32	A Flexible Graphene-Based Fabric Ultrasound Source for Machine Learning Enhanced Information Encryption. <i>IEEE Electron Device Letters</i> , 2022, 43, 1543-1546.	3.9	4
33	The $\hat{I}\pm$ -In <sub>2</sub> Se <sub>3</sub> THz Photodetector. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4371-4376.	3.0	1
34	Investigation of Q Factor of the QCM Resonator Under Overtone Modes. , 2022, , .		0
35	Stability diagrams of two optically mutual-injected quantum cascade lasers. <i>AIP Advances</i> , 2021, 11, 015320.	1.3	0
36	A Shoe-Integrated Sensor System for Long- Term Center of Pressure Evaluation. <i>IEEE Sensors Journal</i> , 2021, 21, 27037-27044.	4.7	10

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37	Enhancing the Ultraviolet Photocurrent and Response Speed of Zinc Oxide Nanoflowers using Surface Plasmons of Gold Nanoparticles and a Graphene Membrane. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000512.	2.4	4
38	High-performance single crystal CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite x-ray detector. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	28
39	Filling the gap: thermal properties and device applications of graphene. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	10
40	Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate. , 2021, , .		0
41	Multifunctional Graphene Microstructures Inspired by Honeycomb for Ultrahigh Performance Electromagnetic Interference Shielding and Wearable Applications. <i>ACS Nano</i> , 2021, 15, 8907-8918.	14.6	110
42	The manufacture and characterization of a novel ultrasonic transducer for medical imaging. , 2021, , .		1
43	A Sensitive Vertical Standing Graphene/Silicon Schottky Photodetector to Angle Changes. , 2021, , .		0
44	Compact, Flexible, and Transparent Antennas Based on Embedded Metallic Mesh for Wearable Devices in 5G Wireless Network. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1864-1873.	5.1	31
45	Gate-Tunable Negative Differential Resistance Behaviors in a hBN-Encapsulated BP-MoS <sub>2</sub> Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 26161-26169.	8.0	21
46	The Origin of CBRAM With High Linearity, On/Off Ratio, and State Number for Neuromorphic Computing. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2568-2571.	3.0	12
47	Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 364003.	2.8	8
48	Observation of negative capacitance in antiferroelectric PbZrO <sub>3</sub> Films. <i>Nature Communications</i> , 2021, 12, 4215.	12.8	22
49	Ultrahigh Step-Up Coupled-Inductor DC-DC Converter With Soft-Switching for Driving Piezoelectric Actuators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 2902-2906.	3.0	3
50	Reconfigurable Logic-Memory Hybrid Device Based on Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> . <i>IEEE Electron Device Letters</i> , 2021, 42, 1164-1167.	3.9	10
51	Self-Powered Multicolor Broadband Photodetector Based on GaSe/WSe <sub>2</sub> /BP Van Der Waals Heterostructure. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3881-3886.	3.0	1
52	Black phosphorus junctions and their electrical and optoelectronic applications. <i>Journal of Semiconductors</i> , 2021, 42, 081001.	3.7	22
53	An Integrated Luminescent Information Encryption&#x2013;Decryption and Anticounterfeiting Chip Based on Laser Induced Graphene. <i>Advanced Functional Materials</i> , 2021, 31, 2103255.	14.9	21
54	Reconfigurable MoTe <sub>2</sub> Field-Effect Transistors and its Application in Compact CMOS Circuits. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4748-4753.	3.0	9

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55	Fabricating In-Plane MoTe <sub>2</sub> p-n Homojunction Photodetector Using Laser-Induced p-Type Doping. IEEE Transactions on Electron Devices, 2021, 68, 4485-4490.	3.0	3
56	Ambipolar transport compact models for two-dimensional materials based field-effect transistors. Tsinghua Science and Technology, 2021, 26, 574-591.	6.1	3
57	Transistor Subthreshold Swing Lowered by 2-D Heterostructures. IEEE Transactions on Electron Devices, 2021, 68, 411-414.	3.0	1
58	A 10Ånm Short Channel MoS <sub>2</sub> Transistor without the Resolution Requirement of Photolithography. Advanced Electronic Materials, 2021, 7, 2100543.	5.1	9
59	Graphene-Based Multifunctional Textile for Sensing and Actuating. ACS Nano, 2021, 15, 17738-17747.	14.6	57
60	Hippocampal Neuronsâ€™ Alignment on Quartz Grooves and Parylene Cues on Quartz Substrate. Applied Sciences (Switzerland), 2021, 11, 275.	2.5	5
61	Interfacial Regulation of Dielectric Properties in Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films. IEEE Journal of the Electron Devices Society, 2021, 9, 1093-1097.	2.1	2
62	Large Coercive Field in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> -based Capacitors with Gd Top Electrode. , 2021, , .		0
63	Ferroelectric structural transition in hafnium oxide induced by charged oxygen vacancies. Physical Review B, 2021, 104, .	3.2	35
64	Ultrasensitive Detection of COVID-19 Causative Virus (SARS-CoV-2) Spike Protein Using Laser Induced Graphene Field-Effect Transistor. Molecules, 2021, 26, 6947.	3.8	22
65	Programmable Sensitivity Screening of Strain Sensors by Local Electrical and Mechanical Properties Coupling. ACS Nano, 2021, 15, 20590-20599.	14.6	13
66	A review on low-dimensional novel optoelectronic devices based on carbon nanotubes. AIP Advances, 2021, 11, .	1.3	4
67	Modeling of Gate Tunable Synaptic Device for Neuromorphic Applications. Frontiers in Physics, 2021, 9, .	2.1	2
68	Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. Carbon, 2020, 156, 253-260.	10.3	67
69	Grapheneâ€™Based Devices for Thermal Energy Conversion and Utilization. Advanced Functional Materials, 2020, 30, 1903888.	14.9	30
70	Wearable Electronics Based on 2D Materials for Human Physiological Information Detection. Small, 2020, 16, e1901124.	10.0	97
71	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	3.9	36
72	Fabricating Molybdenum Disulfide Memristors. ACS Applied Electronic Materials, 2020, 2, 346-370.	4.3	27

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73	Substrate-Free Multilayer Graphene Electronic Skin for Intelligent Diagnosis. ACS Applied Materials & Interfaces, 2020, 12, 49945-49956.	8.0	43
74	Triode-Mimicking Graphene Pressure Sensor with Positive Resistance Variation for Physiology and Motion Monitoring. ACS Nano, 2020, 14, 10104-10114.	14.6	180
75	Flexible Quasi-van der Waals Ferroelectric Hafnium-Based Oxide for Integrated High-Performance Nonvolatile Memory. Advanced Science, 2020, 7, 2001266.	11.2	32
76	Anomalous thermoacoustic effect in topological insulator for sound applications. Applied Physics Letters, 2020, 117, 123502.	3.3	2
77	A Miniaturized Integrated SAW Sensing System for Relative Humidity Based on Graphene Oxide Film. IEEE Sensors Journal, 2020, 20, 9733-9739.	4.7	16
78	Fabrication and Characterization of Ferroelectric HfZrO-based Synaptic Transistors with Multi-state Plasticity. , 2020, , .		6
79	High Performance and Wireless Graphene Earphone towards Practical Applications. , 2020, , .		1
80	Encapsulated X-Ray Detector Enabled by All-Inorganic Lead-Free Perovskite Film With High Sensitivity and Low Detection Limit. IEEE Transactions on Electron Devices, 2020, 67, 3191-3198.	3.0	40
81	Graphene muscle with artificial intelligence. , 2020, , .		1
82	Fabrication and Characterization of a Novel Si Line Tunneling TFET With High Drive Current. IEEE Journal of the Electron Devices Society, 2020, 8, 336-340.	2.1	28
83	Graphene-Based Thermoacoustic Sound Source. ACS Nano, 2020, 14, 3779-3804.	14.6	33
84	A Spectrum-Tunable and Flexible Light-Emitting Device with Ultra-Wide Wavelength Range. , 2020, , .		0
85	Lower Power, Better Uniformity, and Stability CBRAM Enabled by Graphene Nanohole Interface Engineering. IEEE Transactions on Electron Devices, 2020, 67, 984-988.	3.0	9
86	Thermal Energy Conversion: Graphene-Based Devices for Thermal Energy Conversion and Utilization (Adv. Funct. Mater. 8/2020). Advanced Functional Materials, 2020, 30, 2070052.	14.9	0
87	Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. Advanced Materials Technologies, 2020, 5, 1901057.	5.8	4
88	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. ACS Nano, 2020, 14, 2860-2868.	14.6	86
89	Highly Sensitive, Wide-Range, and Flexible Pressure Sensor Based on Honeycomb-Like Graphene Network. IEEE Transactions on Electron Devices, 2020, 67, 2153-2156.	3.0	20
90	Highly Transparent and Sensitive Graphene Sensors for Continuous and Non-invasive Intraocular Pressure Monitoring. ACS Applied Materials & Interfaces, 2020, 12, 18375-18384.	8.0	40

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91	Wearable Electronics: Wearable Electronics Based on 2D Materials for Human Physiological Information Detection (Small 15/2020). Small, 2020, 16, 2070083.	10.0	4
92	Progress of Lead-Free Halide Perovskite X-ray Detectors. , 2020, , .		0
93	Self-Powered MoS <sub>2</sub> -PDPP3T Heterotransistor-Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
94	High sensitive surface-acoustic-wave optical sensor based on two-dimensional perovskite. , 2019, , .		2
95	Miniaturized and High Precision Monitoring System for Natural Waters Using a Microflow Analyzer. , 2019, , .		0
96	Stable InSe transistors with high-field effect mobility for reliable nerve signal sensing. Npj 2D Materials and Applications, 2019, 3, .	7.9	31
97	Graphene-based Wearable Sensors for Physiological Signal Monitoring. , 2019, , .		0
98	A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. ACS Nano, 2019, 13, 8639-8647.	14.6	80
99	A novel thermal acoustic device based on vertical graphene film. AIP Advances, 2019, 9, 075302.	1.3	10
100	Light-Enhanced Ion Migration in Two-Dimensional Perovskite Single Crystals Revealed in Carbon Nanotubes/Two-Dimensional Perovskite Heterostructure and Its Photomemory Application. ACS Central Science, 2019, 5, 1857-1865.	11.3	45
101	Plasmon-Enhanced InGaZnO Ultraviolet Photodetectors Tuned by Ferroelectric HfZrO. Advanced Electronic Materials, 2019, 5, 1900588.	5.1	13
102	Dual-Functional Nonvolatile and Volatile Memory in Resistively Switching Indium Tin Oxide/HfO <sub>2</sub> Devices. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900555.	1.8	2
103	Graphene-based wearable sensors. Nanoscale, 2019, 11, 18923-18945.	5.6	98
104	Graphene based Wearable Sensors for Healthcare. , 2019, , .		4
105	Flexible Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> MXene Films as Thermoacoustic Devices. ACS Nano, 2019, 13, 12613-12620.	14.6	53
106	Ultra-High Sensitive NO <sub>2</sub> Gas Sensor Based on Tunable Polarity Transport in CVD-WS <sub>2</sub> /IGZO p-N Heterojunction. ACS Applied Materials & Interfaces, 2019, 11, 40850-40859.	8.0	105
107	Two-Mode MoS <sub>2</sub> Filament Transistor with Extremely Low Subthreshold Swing and Record High On/Off Ratio. ACS Nano, 2019, 13, 2205-2212.	14.6	22
108	Tunable electronic and optical properties of the WS <sub>2</sub> /IGZO heterostructure via an external electric field and strain: a theoretical study. Physical Chemistry Chemical Physics, 2019, 21, 14713-14721.	2.8	4

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109	Laser-reconfigured MoS <sub>2</sub> /ZnO van der Waals synapse. <i>Nanoscale</i> , 2019, 11, 11114-11120.	5.6	13
110	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1902538.	14.9	132
111	X-Ray Detector Based on All-Inorganic Lead-Free Cs <sub>2</sub> AgBiBr <sub>6</sub> Perovskite Single Crystal. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 2224-2229.	3.0	57
112	Switching dynamics of ferroelectric HfO <sub>2</sub> -ZrO <sub>2</sub> with various ZrO <sub>2</sub> contents. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	42
113	Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , 2019, 2, 164-170.	26.0	95
114	Negative Capacitance Oxide Thin-Film Transistor With Sub-60 mV/Decade Subthreshold Swing. <i>IEEE Electron Device Letters</i> , 2019, 40, 826-829.	3.9	26
115	Development of a portable setup using a miniaturized and high precision colorimeter for the estimation of phosphate in natural water. <i>Analytica Chimica Acta</i> , 2019, 1058, 70-79.	5.4	13
116	A contact lens promising for non-invasive continuous intraocular pressure monitoring. <i>RSC Advances</i> , 2019, 9, 5076-5082.	3.6	29
117	Scalable Modeling for the Coplanar Waveguide Step Discontinuity at Frequency up to 150 GHz. , 2019, , .		0
118	An efficient flexible graphene-based light-emitting device. <i>Nanoscale Advances</i> , 2019, 1, 4745-4754.	4.6	22
119	Au Nanoparticles-Decorated Surface Plasmon Enhanced ZnO Nanorods Ultraviolet Photodetector on Flexible Transparent Mica Substrate. <i>IEEE Journal of the Electron Devices Society</i> , 2019, 7, 196-202.	2.1	18
120	Negative Capacitance Black Phosphorus Transistors With Low SS. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1579-1583.	3.0	15
121	Proton Conductor Gated Synaptic Transistor Based on Transparent IGZO for Realizing Electrical and UV Light Stimulus. <i>IEEE Journal of the Electron Devices Society</i> , 2019, 7, 38-45.	2.1	24
122	A Hybrid Phototransistor Neuromorphic Synapse. <i>IEEE Journal of the Electron Devices Society</i> , 2019, 7, 13-17.	2.1	14
123	Design and Characterization of High-Density Ultrasonic Transducer Array. <i>IEEE Sensors Journal</i> , 2018, 18, 2285-2290.	4.7	15
124	Graphene devices based on laser scribing technology. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FA01.	1.5	19
125	Demonstration of $\pm$ -InGaZnO TFT Nonvolatile Memory Using TiAlO Charge Trapping Layer. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 1089-1093.	2.0	8
126	All-Inorganic Perovskite Nanowiresâ€“InGaZnO Heterojunction for High-Performance Ultravioletâ€“Visible Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7231-7238.	8.0	53



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127	Total-Ionizing-Dose Effects on a Graphene X-Ray Detector Laser-Scribed From Graphene Oxide. IEEE Transactions on Nuclear Science, 2018, 65, 473-477.	2.0	2
128	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. ACS Nano, 2018, 12, 2346-2354.	14.6	579
129	Simultaneously Detecting Subtle and Intensive Human Motions Based on a Silver Nanoparticles Bridged Graphene Strain Sensor. ACS Applied Materials & Interfaces, 2018, 10, 3948-3954.	8.0	118
130	Controlled Growth of Bilayer MoS <sub>2</sub> Films and MoS <sub>2</sub> -Based Field-Effect Transistor (FET) Performance Optimization. Advanced Electronic Materials, 2018, 4, 1700524.	5.1	29
131	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. Scientific Reports, 2018, 8, 5107.	3.3	21
132	A Graphene-Based Filament Transistor with Sub-10 mVdec <sup>-1</sup> Subthreshold Swing. Advanced Electronic Materials, 2018, 4, 1700608.	5.1	21
133	Locally hydrazine doped WSe <sub>2</sub> p-n junction toward high-performance photodetectors. Nanotechnology, 2018, 29, 015203.	2.6	36
134	A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. Nanoscale, 2018, 10, 526-532.	5.6	10
135	Interface Engineering with MoS <sub>2</sub> -Pd Nanoparticles Hybrid Structure for a Low Voltage Resistive Switching Memory. Small, 2018, 14, 1702525.	10.0	52
136	Heterostructured graphene quantum dot/WSe <sub>2</sub> /Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
137	Ultra-sensitive and plasmon-tunable graphene photodetectors for micro-spectrometry. Nanoscale, 2018, 10, 20013-20019.	5.6	34
138	Ink-injected dual-band antennas based on graphene flakes, carbon nanotubes and silver nanowires. RSC Advances, 2018, 8, 37534-37539.	3.6	6
139	High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes. , 2018, , .		21
140	First Principles Study of Memory Selectors using Heterojunctions of 2D Layered Materials. , 2018, , .		2
141	Multifunctional Mechanical Sensors for Versatile Physiological Signal Detection. ACS Applied Materials & Interfaces, 2018, 10, 44173-44182.	8.0	36
142	High-Quality Reconfigurable Black Phosphorus p-n Junctions. IEEE Transactions on Electron Devices, 2018, , 1-5.	3.0	3
143	Toward an In Situ Phosphate Sensor in Natural Waters Using a Microfluidic Flow Loop Analyzer. Journal of the Electrochemical Society, 2018, 165, B737-B745.	2.9	11
144	Gait Recognition Based on Graphene Porous Network Structure Pressure Sensors for Rehabilitation Therapy. , 2018, , .		6

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145	Piezoelectric Micromachined Ultrasonic Transducers for Ultrasound Imaging. , 2018, , .		1
146	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. IScience, 2018, 7, 110-119.	4.1	14
147	Direct laser-patterned ultra-wideband antennae with carbon nanotubes. RSC Advances, 2018, 8, 31331-31336.	3.6	2
148	Wearable humidity sensor based on porous graphene network for respiration monitoring. Biosensors and Bioelectronics, 2018, 116, 123-129.	10.1	278
149	An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. Nanoscale, 2018, 10, 11524-11530.	5.6	77
150	MoS <sub>2</sub> Synaptic Transistor With Tunable Weight Profile. IEEE Transactions on Electron Devices, 2018, 65, 3543-3547.	3.0	13
151	Graphene FET Array Biosensor Based on ssDNA Aptamer for Ultrasensitive Hg <sup>2+</sup> Detection in Environmental Pollutants. Frontiers in Chemistry, 2018, 6, 333.	3.6	46
152	A Two-terminal Electric-double-layer Synaptic Device with Short-term Plasticity. , 2018, , .		0
153	Multilayer Graphene Epidermal Electronic Skin. ACS Nano, 2018, 12, 8839-8846.	14.6	257
154	Field effect properties of single-layer MoS <sub>2</sub> (1-x)Se <sub>2x</sub> nanosheets produced by a one-step CVD process. Journal of Materials Science, 2018, 53, 14447-14455.	3.7	11
155	Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. ACS Nano, 2018, 12, 9134-9141.	14.6	455
156	A Review on Bacteriorhodopsin-Based Bioelectronic Devices. Sensors, 2018, 18, 1368.	3.8	47
157	An intelligent artificial throat with sound-sensing ability based on laser induced graphene. Nature Communications, 2017, 8, 14579.	12.8	396
158	Simulation and experimental verification of silicon dioxide deposition by PECVD. Modern Physics Letters B, 2017, 31, 1750055.	1.9	2
159	High-performance sound source devices based on graphene woven fabrics. Applied Physics Letters, 2017, 110, .	3.3	12
160	Low-Voltage Unipolar Inverter Based on Top-Gate Electric-Double-Layer Thin-Film Transistors Gated by Silica Proton Conductor. IEEE Electron Device Letters, 2017, 38, 875-878.	3.9	7
161	Novel Field Effect Transistor Fabrication Based on Non-Graphene 2D Materials. MRS Advances, 2017, 2, 3675-3684.	0.9	0
162	High-performance graphene-based flexible heater for wearable applications. RSC Advances, 2017, 7, 27001-27006.	3.6	91

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163	Self-adapted and tunable graphene strain sensors for detecting both subtle and large human motions. <i>Nanoscale</i> , 2017, 9, 8266-8273.	5.6	100
164	Top-Gate Electric-Double-Layer IZO-Based Synaptic Transistors for Neuron Networks. <i>IEEE Electron Device Letters</i> , 2017, 38, 588-591.	3.9	32
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166	Flexible graphene sound device based on laser reduced graphene. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	24
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