

# Tian-Ling Ren

## 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.

242  
papers

7,885  
citations

43  
h-index

83  
g-index

300  
ext. papers

9,854  
ext. citations

6.9  
avg, IF

6.1  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 242 | Industrial-scale production of high-quality graphene sheets by millstone grinders. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 164002  | 3    | 1         |
| 241 | High-Throughput DNA Tensioner Platform for Interrogating Mechanical Heterogeneity of Single Living Cells.. <i>Small</i> , <b>2022</b> , 18, e2106196   | 11   | 6         |
| 240 | Impact of Molybdenum Oxide Electrode on the Ferroelectricity of Doped-Hafnia Oxide Capacitors. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-5  | 2.9  | 1         |
| 239 | Mini-review: Novel Graphene-based Acoustic Devices. <i>Sensors and Actuators Reports</i> , <b>2022</b> , 100086  | 4.7  | 1         |
| 238 | A Better Zn-Ion Storage Device: Recent Progress for Zn-Ion Hybrid Supercapacitors.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 64   | 19.5 | 5         |
| 237 | Vertical MoS transistors with sub-1-nm gate lengths.. <i>Nature</i> , <b>2022</b> , 603, 259-264   | 50.4 | 18        |
| 236 | Electrooculography and Tactile Perception Collaborative Interface for 3D Human-Machine Interaction.. <i>ACS Nano</i> , <b>2022</b> ,   | 16.7 | 6         |
| 235 | Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum.. <i>Science Advances</i> , <b>2022</b> , 8, eabn2156  | 14.3 | 11        |
| 234 | Nomex paper-based double-sided laser-induced graphene for multifunctional human-machine interfaces. <i>Carbon</i> , <b>2022</b> , 193, 68-76   | 10.4 | 2         |
| 233 | Ultrathin encapsulated rGO strain sensor for gesture recognition. <i>Microelectronic Engineering</i> , <b>2022</b> , 259, 111779   | 2.5  | 2         |
| 232 | Biocompatible Sensors Are Revolutionizing Healthcare Technologies <b>2022</b> , 227-249  |      |           |
| 231 | Ultra-low Voltage Schmitt Triggers Implemented by HfO <sub>2</sub> -based Ferroelectric Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , <b>2022</b> , 1-1  | 4.4  | 1         |
| 230 | Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4526  | 2.6  | 1         |
| 229 | Electrospun Nanofibers for Integrated Sensing, Storage, and Computing Applications. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4370   | 2.6  | 2         |
| 228 | The trend of 2D transistors toward integrated circuits: Scaling down and new mechanisms.. <i>Advanced Materials</i> , <b>2022</b> , e2201916   | 24   | 4         |
| 227 | Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , <b>2021</b> , e2104810   | 11   | 14        |
| 226 | Interfacial Regulation of Dielectric Properties in Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films. <i>IEEE Journal of the Electron Devices Society</i> , <b>2021</b> , 9, 1093-1097 | 2.3  |           |

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|-----|---|------|----|
| 225 | Ferroelectric structural transition in hafnium oxide induced by charged oxygen vacancies. <i>Physical Review B</i> , <b>2021</b> , 104,   | 3.3  | 5  |
| 224 | Ultrasensitive Detection of COVID-19 Causative Virus (SARS-CoV-2) Spike Protein Using Laser Induced Graphene Field-Effect Transistor. <i>Molecules</i> , <b>2021</b> , 26,  | 4.8  | 3  |
| 223 | Highly Stretchable and Conformal Electromagnetic Interference Shielding Armor with Strain Sensing Ability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133908   | 14.7 | 3  |
| 222 | A 10nm Short Channel MoS <sub>2</sub> Transistor without the Resolution Requirement of Photolithography. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100543  | 6.4  | 3  |
| 221 | Graphene-Based Multifunctional Textile for Sensing and Actuating. <i>ACS Nano</i> , <b>2021</b> ,   | 16.7 | 11 |
| 220 | Hippocampal Neurons Alignment on Quartz Grooves and Parylene Cues on Quartz Substrate. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 275  | 2.6  | 3  |
| 219 | Filling the gap: thermal properties and device applications of graphene. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1  | 3.4  | 3  |
| 218 | Multifunctional Graphene Microstructures Inspired by Honeycomb for Ultrahigh Performance Electromagnetic Interference Shielding and Wearable Applications. <i>ACS Nano</i> , <b>2021</b> , 15, 8907-8918                                    | 16.7 | 36 |
| 217 | The manufacture and characterization of a novel ultrasonic transducer for medical imaging <b>2021</b> ,   |      | 1  |
| 216 | 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> , <b>2021</b> , 69, 1864-1873                                 | 4.9  | 13 |
| 215 | Gate-Tunable Negative Differential Resistance Behaviors in a hBN-Encapsulated BP-MoS Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26161-26169  | 9.5  | 7  |
| 214 | The Origin of CBRAM With High Linearity, On/Off Ratio, and State Number for Neuromorphic Computing. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 2568-2571  | 2.9  | 5  |
| 213 | Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 364003   | 3    | 3  |
| 212 | Observation of negative capacitance in antiferroelectric PbZrO Films. <i>Nature Communications</i> , <b>2021</b> , 12, 4215   | 17.4 | 5  |
| 211 | Stability diagrams of two optically mutual-injected quantum cascade lasers. <i>AIP Advances</i> , <b>2021</b> , 11, 015329  | 3.9  | 3  |
| 210 | A Shoe-Integrated Sensor System for Long-Term Center of Pressure Evaluation. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1  | 4    | 1  |
| 209 | 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> , <b>2021</b> , 15, 2000512 | 2.5  | 1  |
| 208 | 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> , <b>2021</b> , 118, 063506  | 3.4  | 8  |

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|-----|--|------|----|
| 207 | 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> , <b>2021</b> , 68, 2902-2906  | 3.5  | 2  |
| 206 | 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> , <b>2021</b> , 42, 1164-1167                        | 4.4  | 8  |
| 205 | Self-Powered Multicolor Broadband Photodetector Based on GaSe/WSe <sub>2</sub> /WSe <sub>2</sub> /BP Van Der Waals Heterostructure. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 3881-3886 | 2.9  | 0  |
| 204 | Black phosphorus junctions and their electrical and optoelectronic applications. <i>Journal of Semiconductors</i> , <b>2021</b> , 42, 081001   | 2.3  | 5  |
| 203 | An Integrated Luminescent Information Encryption/Decryption and Anticounterfeiting Chip Based on Laser Induced Graphene. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103255                      | 15.6 | 5  |
| 202 | Reconfigurable MoTe <sub>2</sub> Field-Effect Transistors and its Application in Compact CMOS Circuits. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4748-4753                             | 2.9  | 2  |
| 201 | Fabricating In-Plane MoTe <sub>2</sub> p-n Homojunction Photodetector Using Laser-Induced p-Type Doping. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4485-4490                            | 2.9  | 1  |
| 200 | Ambipolar transport compact models for two-dimensional materials based field-effect transistors. <i>Tsinghua Science and Technology</i> , <b>2021</b> , 26, 574-591  | 3.4  | 1  |
| 199 | Transistor Subthreshold Swing Lowered by 2-D Heterostructures. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 411-414  | 2.9  | 1  |
| 198 | A review on low-dimensional novel optoelectronic devices based on carbon nanotubes. <i>AIP Advances</i> , <b>2021</b> , 11, 110701   | 1.5  | 1  |
| 197 | A Miniaturized Integrated SAW Sensing System for Relative Humidity Based on Graphene Oxide Film. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 9733-9739   | 4    | 6  |
| 196 | Fabrication and Characterization of Ferroelectric HfZrO <sub>2</sub> -based Synaptic Transistors with Multi-state Plasticity <b>2020</b> ,   |      | 3  |
| 195 | High Performance and Wireless Graphene Earphone towards Practical Applications <b>2020</b> ,   |      | 1  |
| 194 | Encapsulated X-Ray Detector Enabled by All-Inorganic Lead-Free Perovskite Film With High Sensitivity and Low Detection Limit. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3191-3198       | 2.9  | 15 |
| 193 | Fabrication and Characterization of a Novel Si Line Tunneling TFET With High Drive Current. <i>IEEE Journal of the Electron Devices Society</i> , <b>2020</b> , 8, 336-340                                     | 2.3  | 15 |
| 192 | Graphene-Based Thermoacoustic Sound Source. <i>ACS Nano</i> , <b>2020</b> , 14, 3779-3804  | 16.7 | 12 |
| 191 | Lower Power, Better Uniformity, and Stability CBRAM Enabled by Graphene Nanohole Interface Engineering. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 984-988                               | 2.9  | 4  |
| 190 | Thermal Energy Conversion: Graphene-Based Devices for Thermal Energy Conversion and Utilization (Adv. Funct. Mater. 8/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070052                  | 15.6 |    |

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|-----|--|------|----|
| 189 | Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1901057 | 6.8  | 2  |
| 188 | Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. <i>ACS Nano</i> , <b>2020</b> , 14, 2860-2868   | 6.7  | 52 |
| 187 | . <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 2153-2156   | 2.9  | 11 |
| 186 | Highly Transparent and Sensitive Graphene Sensors for Continuous and Non-invasive Intraocular Pressure Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18375-18384                           | 9.5  | 25 |
| 185 | High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 256-259  | 4.4  | 19 |
| 184 | Fabricating Molybdenum Disulfide Memristors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 346-370  | 4    | 10 |
| 183 | Substrate-Free Multilayer Graphene Electronic Skin for Intelligent Diagnosis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 49945-49956  | 9.5  | 21 |
| 182 | Triode-Mimicking Graphene Pressure Sensor with Positive Resistance Variation for Physiology and Motion Monitoring. <i>ACS Nano</i> , <b>2020</b> , 14, 10104-10114   | 16.7 | 79 |
| 181 | Flexible Quasi-van der Waals Ferroelectric Hafnium-Based Oxide for Integrated High-Performance Nonvolatile Memory. <i>Advanced Science</i> , <b>2020</b> , 7, 2001266  | 13.6 | 15 |
| 180 | Anomalous thermoacoustic effect in topological insulator for sound applications. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 123502  | 3.4  | 1  |
| 179 | Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. <i>Carbon</i> , <b>2020</b> , 156, 253-260   | 10.4 | 45 |
| 178 | Graphene-Based Devices for Thermal Energy Conversion and Utilization. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1903888   | 15.6 | 18 |
| 177 | Wearable Electronics Based on 2D Materials for Human Physiological Information Detection. <i>Small</i> , <b>2020</b> , 16, e1901124  | 11   | 52 |
| 176 | Graphene-based wearable sensors. <i>Nanoscale</i> , <b>2019</b> , 11, 18923-18945  | 7.7  | 50 |
| 175 | Graphene based Wearable Sensors for Healthcare <b>2019</b> ,   |      | 3  |
| 174 | Flexible Two-Dimensional TiC MXene Films as Thermoacoustic Devices. <i>ACS Nano</i> , <b>2019</b> , 13, 12613-12620  | 6.7  | 28 |
| 173 | Ultra-High Sensitive NO Gas Sensor Based on Tunable Polarity Transport in CVD-WS/IGZO p-N Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40850-40859                                    | 9.5  | 55 |
| 172 | Two-Mode MoS Filament Transistor with Extremely Low Subthreshold Swing and Record High On/Off Ratio. <i>ACS Nano</i> , <b>2019</b> , 13, 2205-2212   | 16.7 | 17 |

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| 171 | Tunable electronic and optical properties of the WS/IGZO heterostructure via an external electric field and strain: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 14713-14721                         | 3.6  | 3  |
| 170 | Laser-reconfigured MoS/ZnO van der Waals synapse. <i>Nanoscale</i> , <b>2019</b> , 11, 11114-11120  | 7.7  | 10 |
| 169 | Photoelectric Synaptic Plasticity Realized by 2D Perovskite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902538   | 15.6 | 77 |
| 168 | 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> , <b>2019</b> , 66, 2224-2229   | 2.9  | 38 |
| 167 | Switching dynamics of ferroelectric HfO <sub>2</sub> -ZrO <sub>2</sub> with various ZrO <sub>2</sub> contents. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 142902   | 3.4  | 24 |
| 166 | Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , <b>2019</b> , 2, 164-170   | 28.4 | 54 |
| 165 | Negative Capacitance Oxide Thin-Film Transistor With Sub-60 mV/Decade Subthreshold Swing. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 826-829   | 4.4  | 17 |
| 164 | High sensitive surface-acoustic-wave optical sensor based on two-dimensional perovskite <b>2019</b> ,   |      | 1  |
| 163 | Stable InSe transistors with high-field effect mobility for reliable nerve signal sensing. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,  | 8.8  | 18 |
| 162 | A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. <i>ACS Nano</i> , <b>2019</b> , 13, 8639-8647   | 16.7 | 45 |
| 161 | A novel thermal acoustic device based on vertical graphene film. <i>AIP Advances</i> , <b>2019</b> , 9, 075302  | 1.5  | 5  |
| 160 | Light-Enhanced Ion Migration in Two-Dimensional Perovskite Single Crystals Revealed in Carbon Nanotubes/Two-Dimensional Perovskite Heterostructure and Its Photomemory Application. <i>ACS Central Science</i> , <b>2019</b> , 5, 1857-1865 | 16.8 | 23 |
| 159 | Plasmon-Enhanced InGaZnO Ultraviolet Photodetectors Tuned by Ferroelectric HfZrO. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900588   | 6.4  | 9  |
| 158 | Graphene-Based Synaptic Devices for Neuromorphic Applications <b>2019</b> , 99-142  |      |    |
| 157 | Dual-Functional Nonvolatile and Volatile Memory in Resistively Switching Indium Tin Oxide/HfO <sub>x</sub> Devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900555                        | 1.6  | 1  |
| 156 | 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> , <b>2019</b> , 1058, 70-79   | 6.6  | 8  |
| 155 | A contact lens promising for non-invasive continuous intraocular pressure monitoring.. <i>RSC Advances</i> , <b>2019</b> , 9, 5076-5082   | 3.7  | 20 |
| 154 | An efficient flexible graphene-based light-emitting device. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4745-4754  | 5.1  | 14 |

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| 153 | Au Nanoparticles-Decorated Surface Plasmon Enhanced ZnO Nanorods Ultraviolet Photodetector on Flexible Transparent Mica Substrate. <i>IEEE Journal of the Electron Devices Society</i> , <b>2019</b> , 1-1 | 2.3  | 12  |
| 152 | Negative Capacitance Black Phosphorus Transistors With Low SS. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 1579-1583  | 2.9  | 10  |
| 151 | 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> , <b>2019</b> , 7, 38-45          | 2.3  | 15  |
| 150 | A Hybrid Phototransistor Neuromorphic Synapse. <i>IEEE Journal of the Electron Devices Society</i> , <b>2019</b> , 7, 13-17  | 2.3  | 8   |
| 149 | Design and Characterization of High-Density Ultrasonic Transducer Array. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 2285-2290   | 4    | 10  |
| 148 | Graphene devices based on laser scribing technology. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FA01   | 4    | 7   |
| 147 | Demonstration of HnGaZnO TFT Nonvolatile Memory Using TiAlO Charge Trapping Layer. <i>IEEE Nanotechnology Magazine</i> , <b>2018</b> , 17, 1089-1093   | 2.6  | 6   |
| 146 | All-Inorganic Perovskite Nanowires-InGaZnO Heterojunction for High-Performance Ultraviolet-Visible Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7231-7238             | 9.5  | 40  |
| 145 | . <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 473-477  | 1.7  | 0   |
| 144 | Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosome for High Sensitivity and Large Linearity. <i>ACS Nano</i> , <b>2018</b> , 12, 2346-2354                       | 16.7 | 361 |
| 143 | Simultaneously Detecting Subtle and Intensive Human Motions Based on a Silver Nanoparticles Bridged Graphene Strain Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3948-3954    | 9.5  | 85  |
| 142 | Controlled Growth of Bilayer-MoS2 Films and MoS2-Based Field-Effect Transistor (FET) Performance Optimization. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700524                             | 6.4  | 13  |
| 141 | Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. <i>Scientific Reports</i> , <b>2018</b> , 8, 5107  | 4.9  | 16  |
| 140 | A Graphene-Based Filament Transistor with Sub-10 mVdec <sup>-1</sup> Subthreshold Swing. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700608   | 6.4  | 12  |
| 139 | Graphene FET Array Biosensor Based on ssDNA Aptamer for Ultrasensitive Hg Detection in Environmental Pollutants. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 333                                      | 5    | 34  |
| 138 | Multilayer Graphene Epidermal Electronic Skin. <i>ACS Nano</i> , <b>2018</b> , 12, 8839-8846   | 16.7 | 180 |
| 137 | Field effect properties of single-layer MoS2(1-x)Se2x nanosheets produced by a one-step CVD process. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 14447-14455                                   | 4.3  | 3   |
| 136 | Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. <i>ACS Nano</i> , <b>2018</b> , 12, 9134-9141  | 16.7 | 284 |



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|-----|--|------|-----|
| 135 | A Review on Bacteriorhodopsin-Based Bioelectronic Devices. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8  | 27  |
| 134 | Locally hydrazine doped WSe p-n junction toward high-performance photodetectors. <i>Nanotechnology</i> , <b>2018</b> , 29, 015203  | 3.4  | 22  |
| 133 | A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. <i>Nanoscale</i> , <b>2018</b> , 10, 526-532                               | 7.7  | 7   |
| 132 | Interface Engineering with MoS <sub>2</sub> -Pd Nanoparticles Hybrid Structure for a Low Voltage Resistive Switching Memory. <i>Small</i> , <b>2018</b> , 14, 1702525              | 11   | 37  |
| 131 | Heterostructured graphene quantum dot/WSe <sub>2</sub> /Si photodetector with suppressed dark current and improved detectivity. <i>Nano Research</i> , <b>2018</b> , 11, 3233-3243 | 10   | 38  |
| 130 | Ultra-sensitive and plasmon-tunable graphene photodetectors for micro-spectrometry. <i>Nanoscale</i> , <b>2018</b> , 10, 20013-20019   | 7.7  | 25  |
| 129 | Ink-injected dual-band antennas based on graphene flakes, carbon nanotubes and silver nanowires.. <i>RSC Advances</i> , <b>2018</b> , 8, 37534-37539                               | 3.7  | 3   |
| 128 | High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes <b>2018</b> ,  |      | 13  |
| 127 | First Principles Study of Memory Selectors using Heterojunctions of 2D Layered Materials <b>2018</b> ,   |      | 2   |
| 126 | Multifunctional Mechanical Sensors for Versatile Physiological Signal Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44173-44182                     | 9.5  | 22  |
| 125 | Self-Powered MoS <sub>2</sub> /PDPPT Heterotransistor-Based Broadband Photodetectors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 5, 1800580                              | 6.4  | 10  |
| 124 | High-Quality Reconfigurable Black Phosphorus p-n Junctions. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 1-5   | 2.9  | 3   |
| 123 | Toward an In Situ Phosphate Sensor in Natural Waters Using a Microfluidic Flow Loop Analyzer. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B737-B745         | 3.9  | 8   |
| 122 | Gait Recognition Based on Graphene Porous Network Structure Pressure Sensors for Rehabilitation Therapy <b>2018</b> ,  |      | 4   |
| 121 | Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. <i>IScience</i> , <b>2018</b> , 7, 110-119   | 6.1  | 8   |
| 120 | Direct laser-patterned ultra-wideband antennae with carbon nanotubes.. <i>RSC Advances</i> , <b>2018</b> , 8, 31331-31336  | 3.7  | 3   |
| 119 | Wearable humidity sensor based on porous graphene network for respiration monitoring. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 116, 123-129                            | 11.8 | 172 |
| 118 | An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. <i>Nanoscale</i> , <b>2018</b> , 10, 11524-11530   | 7.7  | 57  |



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|-----|---|------|-----|
| 117 | MoS2 Synaptic Transistor With Tunable Weight Profile. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3543-3547  | 2.9  | 8   |
| 116 | An intelligent artificial throat with sound-sensing ability based on laser induced graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14579  | 17.4 | 275 |
| 115 | Simulation and experimental verification of silicon dioxide deposition by PECVD. <i>Modern Physics Letters B</i> , <b>2017</b> , 31, 1750055  | 1.6  | 0   |
| 114 | High-performance sound source devices based on graphene woven fabrics. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 093110   | 3.4  | 9   |
| 113 | Low-Voltage Unipolar Inverter Based on Top-Gate Electric-Double-Layer Thin-Film Transistors Gated by Silica Proton Conductor. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 875-878 | 4.4  | 6   |
| 112 | Novel Field Effect Transistor Fabrication Based on Non-Graphene 2D Materials. <i>MRS Advances</i> , <b>2017</b> , 2, 3675-3684  | 0.7  |     |
| 111 | High-performance graphene-based flexible heater for wearable applications. <i>RSC Advances</i> , <b>2017</b> , 7, 27001-27006   | 3.7  | 66  |
| 110 | Self-adapted and tunable graphene strain sensors for detecting both subtle and large human motions. <i>Nanoscale</i> , <b>2017</b> , 9, 8266-8273   | 7.7  | 76  |
| 109 | Top-Gate Electric-Double-Layer IZO-Based Synaptic Transistors for Neuron Networks. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 588-591  | 4.4  | 24  |
| 108 | Long-Term Depression Mimicked in an IGZO-Based Synaptic Transistor. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 191-194   | 4.4  | 39  |
| 107 | Flexible graphene sound device based on laser reduced graphene. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 103104  | 3.4  | 18  |
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| 105 | Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. <i>Scientific Reports</i> , <b>2017</b> , 7, 6751           | 4.9  | 29  |
| 104 | A Ferroelectric Thin Film Transistor Based on Annealing-Free HfZrO Film. <i>IEEE Journal of the Electron Devices Society</i> , <b>2017</b> , 5, 378-383                                       | 2.3  | 26  |
| 103 | Large-Scale and High-Density pMUT Array Based on Isolated Sol-Gel PZT Membranes for Fingerprint Imaging. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B377-B381         | 3.9  | 10  |
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| 101 | Extremely Low Operating Current Resistive Memory Based on Exfoliated 2D Perovskite Single Crystals for Neuromorphic Computing. <i>ACS Nano</i> , <b>2017</b> , 11, 12247-12256                | 16.7 | 201 |
| 100 | Tailoring perpendicular magnetic anisotropy with graphene oxide membranes. <i>RSC Advances</i> , <b>2017</b> , 7, 52938-52944   | 3.7  | 1   |

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| 99 | A super flexible and custom-shaped graphene heater. <i>Nanoscale</i> , <b>2017</b> , 9, 14357-14363   | 7.7  | 44  |
| 98 | A power manager system with 78% efficiency for high-voltage triboelectric nanogenerators. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1   | 3.4  |     |
| 97 | Surface Acoustic Wave Devices Based on High Quality Temperature-Compensated Substrates. <i>IEEE Electron Device Letters</i> , <b>2016</b> , 37, 1063-1066   | 4.4  | 5   |
| 96 | Tunable graphene oxide reduction and graphene patterning at room temperature on arbitrary substrates. <i>Carbon</i> , <b>2016</b> , 109, 173-181  | 10.4 | 23  |
| 95 | High performance flexible strain sensor based on self-locked overlapping graphene sheets. <i>Nanoscale</i> , <b>2016</b> , 8, 20090-20095   | 7.7  | 87  |
| 94 | Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , <b>2016</b> , 28, 6640-8  | 24   | 584 |
| 93 | A point acoustic device based on aluminum nanowires. <i>Nanoscale</i> , <b>2016</b> , 8, 5516-25  | 7.7  | 11  |
| 92 | A miniaturized microbial fuel cell with three-dimensional graphene macroporous scaffold anode demonstrating a record power density of over 10,000 W m <sup>-3</sup> . <i>Nanoscale</i> , <b>2016</b> , 8, 3539-47 | 7.7  | 71  |
| 91 | A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. <i>Nanomaterials</i> , <b>2016</b> , 6,   | 5.4  | 15  |
| 90 | A comparison of Pd and Au electrodes-based LiNbO <sub>3</sub> surface acoustic wave devices. <i>Modern Physics Letters B</i> , <b>2016</b> , 30, 1650349  | 1.6  | 2   |
| 89 | A Low Input Current and Wide Conversion Ratio Buck Regulator with 75% Efficiency for High-Voltage Triboelectric Nanogenerators. <i>Scientific Reports</i> , <b>2016</b> , 6, 19246                                | 4.9  | 14  |
| 88 | High performance photodetector based on Pd-single layer MoS <sub>2</sub> Schottky junction. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 201904  | 3.4  | 13  |
| 87 | A novel thermal acoustic device based on porous graphene. <i>AIP Advances</i> , <b>2016</b> , 6, 015105   | 1.5  | 9   |
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| 85 | Wearable Strain Sensors: Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors (Adv. Mater. 31/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 6639                     | 24   | 11  |
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| 83 | A graphene-based resistive pressure sensor with record-high sensitivity in a wide pressure range. <i>Scientific Reports</i> , <b>2015</b> , 5, 8603   | 4.9  | 329 |
| 82 | Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets. <i>Scientific Reports</i> , <b>2015</b> , 5, 10582  | 4.9  | 23  |

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|----|--|------|-----|
| 81 | A spectrally tunable all-graphene-based flexible field-effect light-emitting device. <i>Nature Communications</i> , <b>2015</b> , 6, 7767  | 17.4 | 97  |
| 80 | A pressure sensing system for heart rate monitoring with polymer-based pressure sensors and an anti-interference post processing circuit. <i>Sensors</i> , <b>2015</b> , 15, 3224-35                                   | 3.8  | 57  |
| 79 | Controllable thermal rectification realized in binary phase change composites. <i>Scientific Reports</i> , <b>2015</b> , 5, 8884   | 4.9  | 43  |
| 78 | Graphene Dynamic Synapse with Modulatable Plasticity. <i>Nano Letters</i> , <b>2015</b> , 15, 8013-9   | 11.5 | 180 |
| 77 | A high performance triboelectric nanogenerator for self-powered non-volatile ferroelectric transistor memory. <i>Nanoscale</i> , <b>2015</b> , 7, 17306-11   | 7.7  | 36  |
| 76 | Zno field-effect transistors with lead-zirconate-titanate ferroelectric gate. <i>Materials Research Innovations</i> , <b>2015</b> , 19, S2-181-S2-184  | 1.9  | 2   |
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| 73 | In Situ Tuning of Switching Window in a Gate-Controlled Bilayer Graphene-Electrode Resistive Memory Device. <i>Advanced Materials</i> , <b>2015</b> , 27, 7767-74  | 24   | 40  |
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| 70 | Novel field-effect Schottky barrier transistors based on graphene-MoS2 heterojunctions. <i>Scientific Reports</i> , <b>2014</b> , 4, 5951  | 4.9  | 115 |
| 69 | A micro-scale microbial supercapacitor <b>2014</b> ,   |      | 1   |
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| 65 | Cost-effective, transfer-free, flexible resistive random access memory using laser-scribed reduced graphene oxide patterning technology. <i>Nano Letters</i> , <b>2014</b> , 14, 3214-9                                | 11.5 | 93  |
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| 55 | Effects of anode materials on resistive characteristics of NiO thin films. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 042901  | 3-4  | 14  |
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| 26 | A metrology of silicon film thermal conductivity using micro-Raman spectroscopy <b>2010</b> ,   |     | 3  |
| 25 | Ultrasonic transducer array design for medical imaging based on MEMS technologies <b>2010</b> ,   |     | 6  |
| 24 | A novel fatigue-insensitive self-referenced scheme for 1T1C FRAM <b>2010</b> ,  |     | 1  |
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| 14 | A novel MEMS pressure sensor with MOSFET on chip <b>2008</b> ,  |     | 17 |
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| 8 | Key Integration Techniques and Issues for Silicon-Based Ferroelectric Devices. <i>Integrated Ferroelectrics</i> , <b>2004</b> , 66, 59-69   | 0.8 | 1  |
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