

Tian-Ling Ren

List of Publications by Year in descending order

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297
papers

12,049
citations

31976

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30922

102
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all docs

300
docs citations

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times ranked

12687
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , 2016, 28, 6640-6648.	21.0	749
2	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. <i>ACS Nano</i> , 2018, 12, 2346-2354.	14.6	579
3	Graphene-Paper Pressure Sensor for Detecting Human Motions. <i>ACS Nano</i> , 2017, 11, 8790-8795.	14.6	572
4	Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. <i>ACS Nano</i> , 2018, 12, 9134-9141.	14.6	455
5	A Graphene-Based Resistive Pressure Sensor with Record-High Sensitivity in a Wide Pressure Range. <i>Scientific Reports</i> , 2015, 5, 8603.	3.3	415
6	An intelligent artificial throat with sound-sensing ability based on laser induced graphene. <i>Nature Communications</i> , 2017, 8, 14579.	12.8	396
7	Flexible, Highly Sensitive, and Wearable Pressure and Strain Sensors with Graphene Porous Network Structure. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26458-26462.	8.0	387
8	Scalable fabrication of high-performance and flexible graphene strain sensors. <i>Nanoscale</i> , 2014, 6, 699-705.	5.6	366
9	Extremely Low Operating Current Resistive Memory Based on Exfoliated 2D Perovskite Single Crystals for Neuromorphic Computing. <i>ACS Nano</i> , 2017, 11, 12247-12256.	14.6	286
10	Wearable humidity sensor based on porous graphene network for respiration monitoring. <i>Biosensors and Bioelectronics</i> , 2018, 116, 123-129.	10.1	278
11	Multilayer Graphene Epidermal Electronic Skin. <i>ACS Nano</i> , 2018, 12, 8839-8846.	14.6	257
12	Vertical MoS ₂ transistors with sub-1-nm gate lengths. <i>Nature</i> , 2022, 603, 259-264.	27.8	251
13	Graphene Dynamic Synapse with Modulatable Plasticity. <i>Nano Letters</i> , 2015, 15, 8013-8019.	9.1	226
14	Graphene-on-Paper Sound Source Devices. <i>ACS Nano</i> , 2011, 5, 4878-4885.	14.6	197
15	Triode-Mimicking Graphene Pressure Sensor with Positive Resistance Variation for Physiology and Motion Monitoring. <i>ACS Nano</i> , 2020, 14, 10104-10114.	14.6	180
16	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. <i>Energy and Environmental Science</i> , 2013, 6, 108-115.	30.8	154
17	Novel Field-Effect Schottky Barrier Transistors Based on Graphene-MoS ₂ Heterojunctions. <i>Scientific Reports</i> , 2014, 4, 5951.	3.3	134
18	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1902538.	14.9	132

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19	Monitoring Oxygen Movement by Raman Spectroscopy of Resistive Random Access Memory with a Graphene-Inserted Electrode. <i>Nano Letters</i> , 2013, 13, 651-657.	9.1	121
20	Simultaneously Detecting Subtle and Intensive Human Motions Based on a Silver Nanoparticles Bridged Graphene Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3948-3954.	8.0	118
21	Cost-Effective, Transfer-Free, Flexible Resistive Random Access Memory Using Laser-Scribed Reduced Graphene Oxide Patterning Technology. <i>Nano Letters</i> , 2014, 14, 3214-3219.	9.1	114
22	A spectrally tunable all-graphene-based flexible field-effect light-emitting device. <i>Nature Communications</i> , 2015, 6, 7767.	12.8	113
23	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. <i>Scientific Reports</i> , 2014, 4, 3598.	3.3	113
24	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
25	High performance flexible strain sensor based on self-locked overlapping graphene sheets. <i>Nanoscale</i> , 2016, 8, 20090-20095.	5.6	108
26	Graphene Earphones: Entertainment for Both Humans and Animals. <i>ACS Nano</i> , 2014, 8, 5883-5890.	14.6	105
27	Ultra-High Sensitive NO ₂ Gas Sensor Based on Tunable Polarity Transport in CVD-WS ₂ /IGZO p-N Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40850-40859.	8.0	105
28	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
29	Graphene-based wearable sensors. <i>Nanoscale</i> , 2019, 11, 18923-18945.	5.6	98
30	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO ₃ /Pt heterojunction structure. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	97
31	Wearable Electronics Based on 2D Materials for Human Physiological Information Detection. <i>Small</i> , 2020, 16, e1901124.	10.0	97
32	A miniaturized microbial fuel cell with three-dimensional graphene macroporous scaffold anode demonstrating a record power density of over 10 ³ W m ⁻² . <i>Nanoscale</i> , 2016, 8, 3539-3547.	5.6	96
33	Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , 2019, 2, 164-170.	26.0	95
34	Single-layer graphene sound-emitting devices: experiments and modeling. <i>Nanoscale</i> , 2012, 4, 2272.	5.6	92
35	High-performance graphene-based flexible heater for wearable applications. <i>RSC Advances</i> , 2017, 7, 27001-27006.	3.6	91
36	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. <i>ACS Nano</i> , 2020, 14, 2860-2868.	14.6	86

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37	A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. ACS Nano, 2019, 13, 8639-8647.	14.6	80
38	An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. Nanoscale, 2018, 10, 11524-11530.	5.6	77
39	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	3.3	76
40	A Pressure Sensing System for Heart Rate Monitoring with Polymer-Based Pressure Sensors and An Anti-Interference Post Processing Circuit. Sensors, 2015, 15, 3224-3235.	3.8	76
41	Heterostructured graphene quantum dot/WSe ₂ /Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
42	Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. Carbon, 2020, 156, 253-260.	10.3	67
43	A Better Zn-Ion Storage Device: Recent Progress for Zn-Ion Hybrid Supercapacitors. Nano-Micro Letters, 2022, 14, 64.	27.0	65
44	A super flexible and custom-shaped graphene heater. Nanoscale, 2017, 9, 14357-14363.	5.6	63
45	Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum. Science Advances, 2022, 8, eabn2156.	10.3	62
46	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. NPG Asia Materials, 2015, 7, e154-e154.	7.9	58
47	X-Ray Detector Based on All-Inorganic Lead-Free Cs ₂ AgBiBr ₆ Perovskite Single Crystal. IEEE Transactions on Electron Devices, 2019, 66, 2224-2229.	3.0	57
48	Graphene-Based Multifunctional Textile for Sensing and Actuating. ACS Nano, 2021, 15, 17738-17747.	14.6	57
49	Transparent, flexible, ultrathin sound source devices using Indium Tin oxide films. Applied Physics Letters, 2011, 99, .	3.3	56
50	Growth and Raman Spectra of Single-Crystal Trilayer Graphene with Different Stacking Orientations. ACS Nano, 2014, 8, 10766-10773.	14.6	56
51	Enhanced dielectric and multiferroic properties of single-phase Y and Zr co-doped BiFeO ₃ ceramics. Journal of Applied Physics, 2013, 114, .	2.5	55
52	Flexible CNT-array double helices Strain Sensor with high stretchability for Motion Capture. Scientific Reports, 2015, 5, 15554.	3.3	55
53	In Situ Tuning of Switching Window in a Gate-Controlled Bilayer Graphene-Electrode Resistive Memory Device. Advanced Materials, 2015, 27, 7767-7774.	21.0	54
54	All-Inorganic Perovskite Nanowires-InGaZnO Heterojunction for High-Performance Ultraviolet-Visible Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 7231-7238.	8.0	53

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55	Flexible Two-Dimensional Ti ₃ C ₂ MXene Films as Thermoacoustic Devices. ACS Nano, 2019, 13, 12613-12620.	14.6	53
56	Interface Engineering with MoS ₂ –Pd Nanoparticles Hybrid Structure for a Low Voltage Resistive Switching Memory. Small, 2018, 14, 1702525.	10.0	52
57	Controllable Thermal Rectification Realized in Binary Phase Change Composites. Scientific Reports, 2015, 5, 8884.	3.3	49
58	A Review on Bacteriorhodopsin-Based Bioelectronic Devices. Sensors, 2018, 18, 1368.	3.8	47
59	Flexible, ultrathin, and transparent sound-emitting devices using silver nanowires film. Applied Physics Letters, 2011, 99, .	3.3	46
60	A high performance triboelectric nanogenerator for self-powered non-volatile ferroelectric transistor memory. Nanoscale, 2015, 7, 17306-17311.	5.6	46
61	Graphene FET Array Biosensor Based on ssDNA Aptamer for Ultrasensitive Hg ²⁺ Detection in Environmental Pollutants. Frontiers in Chemistry, 2018, 6, 333.	3.6	46
62	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
63	Electrooculography and Tactile Perception Collaborative Interface for 3D Human–Machine Interaction. ACS Nano, 2022, 16, 6687-6699.	14.6	44
64	Long-Term Depression Mimicked in an IGZO-Based Synaptic Transistor. IEEE Electron Device Letters, 2017, 38, 191-194.	3.9	43
65	A Ferroelectric Thin Film Transistor Based on Annealing-Free HfZrO Film. IEEE Journal of the Electron Devices Society, 2017, 5, 378-383.	2.1	43
66	Substrate-Free Multilayer Graphene Electronic Skin for Intelligent Diagnosis. ACS Applied Materials & Interfaces, 2020, 12, 49945-49956.	8.0	43
67	Switching dynamics of ferroelectric HfO ₂ -ZrO ₂ with various ZrO ₂ contents. Applied Physics Letters, 2019, 114, .	3.3	42
68	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. Small, 2022, 18, e2104810.	10.0	42
69	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
70	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
71	A flexible, transparent and ultrathin single-layer graphene earphone. RSC Advances, 2015, 5, 17366-17371.	3.6	39
72	Tunable graphene oxide reduction and graphene patterning at room temperature on arbitrary substrates. Carbon, 2016, 109, 173-181.	10.3	38

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73	Influence of La and Mn dopants on the current-voltage characteristics of BiFeO ₃ /ZnO heterojunction. Journal of Applied Physics, 2012, 111, .	2.5	37
74	The Trend of 2D Transistors toward Integrated Circuits: Scaling Down and New Mechanisms. Advanced Materials, 2022, 34, e2201916.	21.0	37
75	Temperature Control of P(VDF-TrFE) Copolymer Thin Films. Integrated Ferroelectrics, 2013, 141, 187-194.	0.7	36
76	Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. Scientific Reports, 2017, 7, 6751.	3.3	36
77	Locally hydrazine doped WSe ₂ p-n junction toward high-performance photodetectors. Nanotechnology, 2018, 29, 015203.	2.6	36
78	Multifunctional Mechanical Sensors for Versatile Physiological Signal Detection. ACS Applied Materials & Interfaces, 2018, 10, 44173-44182.	8.0	36
79	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	3.9	36
80	Self-Powered MoS ₂ â€“PDPP3T Heterotransistor-Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
81	Ferroelectric structural transition in hafnium oxide induced by charged oxygen vacancies. Physical Review B, 2021, 104, .	3.2	35
82	Review on Organicâ€“Inorganic Two-Dimensional Perovskite-Based Optoelectronic Devices. ACS Applied Electronic Materials, 2022, 4, 547-567.	4.3	35
83	Ultra-sensitive and plasmon-tunable graphene photodetectors for micro-spectrometry. Nanoscale, 2018, 10, 20013-20019.	5.6	34
84	Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets. Scientific Reports, 2015, 5, 10582.	3.3	33
85	Graphene-Based Thermoacoustic Sound Source. ACS Nano, 2020, 14, 3779-3804.	14.6	33
86	Top-Gate Electric-Double-Layer IZO-Based Synaptic Transistors for Neuron Networks. IEEE Electron Device Letters, 2017, 38, 588-591.	3.9	32
87	Flexible Quasi-van der Waals Ferroelectric Hafnium-Based Oxide for Integrated High-Performance Nonvolatile Memory. Advanced Science, 2020, 7, 2001266.	11.2	32
88	Resistive switching behavior in diamond-like carbon films grown by pulsed laser deposition for resistance switching random access memory application. Journal of Applied Physics, 2012, 111, 084501.	2.5	31
89	Stable InSe transistors with high-field effect mobility for reliable nerve signal sensing. Npj 2D Materials and Applications, 2019, 3, .	7.9	31
90	Compact, Flexible, and Transparent Antennas Based on Embedded Metallic Mesh for Wearable Devices in 5G Wireless Network. IEEE Transactions on Antennas and Propagation, 2021, 69, 1864-1873.	5.1	31

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91	Graphene-Based Devices for Thermal Energy Conversion and Utilization. <i>Advanced Functional Materials</i> , 2020, 30, 1903888.	14.9	30
92	Controlled Growth of Bilayer MoS ₂ Films and MoS ₂ -Based Field-Effect Transistor (FET) Performance Optimization. <i>Advanced Electronic Materials</i> , 2018, 4, 1700524.	5.1	29
93	A contact lens promising for non-invasive continuous intraocular pressure monitoring. <i>RSC Advances</i> , 2019, 9, 5076-5082.	3.6	29
94	Static behavior of a graphene-based sound-emitting device. <i>Nanoscale</i> , 2012, 4, 3345.	5.6	28
95	Fabrication and Characterization of a Novel Si Line Tunneling TFET With High Drive Current. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 336-340.	2.1	28
96	High-performance single crystal CH ₃ NH ₃ PbI ₃ perovskite x-ray detector. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	28
97	Piezoelectric and ferroelectric films for microelectronic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 99, 159-163.	3.5	27
98	Fabricating Molybdenum Disulfide Memristors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 346-370.	4.3	27
99	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
100	Large-Scale and High-Density pMUT Array Based on Isolated Sol-Gel PZT Membranes for Fingerprint Imaging. <i>Journal of the Electrochemical Society</i> , 2017, 164, B377-B381.	2.9	25
101	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. <i>ACS Nano</i> , 2022, 16, 10199-10208.	14.6	25
102	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-based organic, ultrathin, and transparent sound-emitting device. <i>Applied Physics Letters</i> , 2011, 99, 233503.	3.3	24
103	Flexible graphene sound device based on laser reduced graphene. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	24
104	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
105	A novel MEMS pressure sensor with MOSFET on chip. , 2008, , .		23
106	Investigation of the improved performance in a graphene/polycrystalline BiFeO ₃ /Pt photovoltaic heterojunction: Experiment, modeling, and application. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	23
107	A reduced graphene oxide sound-emitting device: a new use for Joule heating. <i>RSC Advances</i> , 2013, 3, 17672.	3.6	22
108	Two-Mode MoS ₂ Filament Transistor with Extremely Low Subthreshold Swing and Record High On/Off Ratio. <i>ACS Nano</i> , 2019, 13, 2205-2212.	14.6	22

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109	An efficient flexible graphene-based light-emitting device. <i>Nanoscale Advances</i> , 2019, 1, 4745-4754.	4.6	22
110	Observation of negative capacitance in antiferroelectric PbZrO ₃ Films. <i>Nature Communications</i> , 2021, 12, 4215.	12.8	22
111	Black phosphorus junctions and their electrical and optoelectronic applications. <i>Journal of Semiconductors</i> , 2021, 42, 081001.	3.7	22
112	Ultrasensitive Detection of COVID-19 Causative Virus (SARS-CoV-2) Spike Protein Using Laser Induced Graphene Field-Effect Transistor. <i>Molecules</i> , 2021, 26, 6947.	3.8	22
113	Humidity-Based Human-Machine Interaction System for Healthcare Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12606-12616.	8.0	22
114	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. <i>Scientific Reports</i> , 2018, 8, 5107.	3.3	21
115	A Graphene-Based Filament Transistor with Sub-10 mVdec ⁻¹ Subthreshold Swing. <i>Advanced Electronic Materials</i> , 2018, 4, 1700608.	5.1	21
116	High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes. , 2018, , .		21
117	Gate-Tunable Negative Differential Resistance Behaviors in a hBN-Encapsulated BP-MoS ₂ Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26161-26169.	8.0	21
118	An Integrated Luminescent Information Encryption-Decryption and Anticounterfeiting Chip Based on Laser Induced Graphene. <i>Advanced Functional Materials</i> , 2021, 31, 2103255.	14.9	21
119	Structural, ferroelectric, dielectric, and magnetic properties of BiFeO ₃ /Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ multilayer films derived by chemical solution deposition. <i>Journal of Applied Physics</i> , 2009, 105, 084109.	2.5	20
120	Highly Sensitive, Wide-Range, and Flexible Pressure Sensor Based on Honeycomb-Like Graphene Network. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2153-2156.	3.0	20
121	Graphene devices based on laser scribing technology. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FA01.	1.5	19
122	A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. <i>Nanomaterials</i> , 2016, 6, 112.	4.1	18
123	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
124	Unipolar to ambipolar conversion in graphene field-effect transistors. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	17
125	Wearable Strain Sensors: Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors (Adv. Mater. 31/2016). <i>Advanced Materials</i> , 2016, 28, 6639-6639.	21.0	17
126	A Miniaturized Integrated SAW Sensing System for Relative Humidity Based on Graphene Oxide Film. <i>IEEE Sensors Journal</i> , 2020, 20, 9733-9739.	4.7	16

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127	Effects of anode materials on resistive characteristics of NiO thin films. Applied Physics Letters, 2013, 102, .	3.3	15
128	A Low Input Current and Wide Conversion Ratio Buck Regulator with 75% Efficiency for High-Voltage Triboelectric Nanogenerators. Scientific Reports, 2016, 6, 19246.	3.3	15
129	High performance photodetector based on Pd-single layer MoS ₂ Schottky junction. Applied Physics Letters, 2016, 109, .	3.3	15
130	A point acoustic device based on aluminum nanowires. Nanoscale, 2016, 8, 5516-5525.	5.6	15
131	Synaptic Computation Demonstrated in a Two-Synapse Network Based on Top-Gate Electric-Double-Layer Synaptic Transistors. IEEE Electron Device Letters, 2017, 38, 1496-1499.	3.9	15
132	Design and Characterization of High-Density Ultrasonic Transducer Array. IEEE Sensors Journal, 2018, 18, 2285-2290.	4.7	15
133	Negative Capacitance Black Phosphorus Transistors With Low SS. IEEE Transactions on Electron Devices, 2019, 66, 1579-1583.	3.0	15
134	Highly stretchable and conformal electromagnetic interference shielding armor with strain sensing ability. Chemical Engineering Journal, 2022, 431, 133908.	12.7	15
135	High-throughput DNA Tensioner Platform for Interrogating Mechanical Heterogeneity of Single Living Cells. Small, 2022, 18, e2106196.	10.0	15
136	Surface acoustic wave characteristics based on c-axis (006) LiNbO ₃ /diamond/silicon layered structure. Applied Physics Letters, 2011, 99, .	3.3	14
137	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. IScience, 2018, 7, 110-119.	4.1	14
138	A Hybrid Phototransistor Neuromorphic Synapse. IEEE Journal of the Electron Devices Society, 2019, 7, 13-17.	2.1	14
139	An intelligent nanomesh-reinforced graphene pressure sensor with an ultra large linear range. Journal of Materials Chemistry A, 2022, 10, 4858-4869.	10.3	14
140	Characterization of Pt/Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ /HfO ₂ /Si structure using a hafnium oxide as buffer layer for ferroelectric-gate field effect transistors. Journal of Applied Physics, 2009, 106, .	2.5	13
141	Characteristics of Pt/BiFeO ₃ /TiO ₂ /Si capacitors with TiO ₂ layer formed by liquid-delivery metal organic chemical vapor deposition. Applied Physics Letters, 2010, 97, .	3.3	13
142	MoS ₂ Synaptic Transistor With Tunable Weight Profile. IEEE Transactions on Electron Devices, 2018, 65, 3543-3547.	3.0	13
143	Plasmon-enhanced InGaZnO Ultraviolet Photodetectors Tuned by Ferroelectric HfZrO. Advanced Electronic Materials, 2019, 5, 1900588.	5.1	13
144	Laser-reconfigured MoS ₂ /ZnO van der Waals synapse. Nanoscale, 2019, 11, 11114-11120.	5.6	13

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145	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
146	Programmable Sensitivity Screening of Strain Sensors by Local Electrical and Mechanical Properties Coupling. <i>ACS Nano</i> , 2021, 15, 20590-20599.	14.6	13
147	Nomex paper-based double-sided laser-induced graphene for multifunctional human-machine interfaces. <i>Carbon</i> , 2022, 193, 68-76.	10.3	13
148	Electrode/oxide interface engineering by inserting single-layer graphene: Application for HfO ₂ -based resistive random access memory. , 2012, , .		12
149	High-performance sound source devices based on graphene woven fabrics. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	12
150	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
151	Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4526.	2.5	12
152	Ultrasonic transducer array design for medical imaging based on MEMS technologies. , 2010, , .		11
153	Toward an In Situ Phosphate Sensor in Natural Waters Using a Microfluidic Flow Loop Analyzer. <i>Journal of the Electrochemical Society</i> , 2018, 165, B737-B745.	2.9	11
154	Field effect properties of single-layer MoS ₂ (1-x)Se _{2x} nanosheets produced by a one-step CVD process. <i>Journal of Materials Science</i> , 2018, 53, 14447-14455.	3.7	11
155	Electromyogram-strain synergetic intelligent artificial throat. <i>Chemical Engineering Journal</i> , 2022, 449, 137741.	12.7	11
156	Ambipolar/unipolar conversion in graphene transistors by surface doping. <i>Applied Physics Letters</i> , 2013, 103, 193502.	3.3	10
157	A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. <i>Nanoscale</i> , 2018, 10, 526-532.	5.6	10
158	A novel thermal acoustic device based on vertical graphene film. <i>AIP Advances</i> , 2019, 9, 075302.	1.3	10
159	A Shoe-Integrated Sensor System for Long- Term Center of Pressure Evaluation. <i>IEEE Sensors Journal</i> , 2021, 21, 27037-27044.	4.7	10
160	Filling the gap: thermal properties and device applications of graphene. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	10
161	Reconfigurable Logic-Memory Hybrid Device Based on Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ . <i>IEEE Electron Device Letters</i> , 2021, 42, 1164-1167.	3.9	10
162	Ultrathin encapsulated rGO strain sensor for gesture recognition. <i>Microelectronic Engineering</i> , 2022, 259, 111779.	2.4	10

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163	A novel ferroelectric based microphone. <i>Microelectronic Engineering</i> , 2003, 66, 683-687.	2.4	9
164	A novel thermal acoustic device based on porous graphene. <i>AIP Advances</i> , 2016, 6, .	1.3	9
165	Lower Power, Better Uniformity, and Stability CBRAM Enabled by Graphene Nanohole Interface Engineering. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 984-988.	3.0	9
166	Reconfigurable MoTe ₂ 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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