He Tian

List of Publications by Year
in descending order

193	14,817	28190 55	18606 119
papers	citations	h-index	g-index

194	194	194	17476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253.	13.7	1,555
2	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	15.6	1,535
3	Black Phosphorus Mid-Infrared Photodetectors with High Gain. Nano Letters, 2016, 16, 4648-4655.	4.5	616
4	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. ACS Nano, 2018, 12, 2346-2354.	7.3	579
5	Graphene-Paper Pressure Sensor for Detecting Human Motions. ACS Nano, 2017, 11, 8790-8795.	7.3	572
6	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. Nature Photonics, 2019, 13, 760-764.	15.6	483
7	A Graphene-Based Resistive Pressure Sensor with Record-High Sensitivity in a Wide Pressure Range. Scientific Reports, 2015, 5, 8603.	1.6	415
8	An intelligent artificial throat with sound-sensing ability based on laser induced graphene. Nature Communications, 2017, 8, 14579.	5.8	396
9	Flexible, Highly Sensitive, and Wearable Pressure and Strain Sensors with Graphene Porous Network Structure. ACS Applied Materials & Interfaces, 2016, 8, 26458-26462.	4.0	387
10	Scalable fabrication of high-performance and flexible graphene strain sensors. Nanoscale, 2014, 6, 699-705.	2.8	366
11	Extremely Low Operating Current Resistive Memory Based on Exfoliated 2D Perovskite Single Crystals for Neuromorphic Computing. ACS Nano, 2017, 11, 12247-12256.	7.3	286
12	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. Advanced Materials, 2016, 28, 4991-4997.	11.1	281
13	Wearable humidity sensor based on porous graphene network for respiration monitoring. Biosensors and Bioelectronics, 2018, 116, 123-129.	5.3	278
14	Multilayer Graphene Epidermal Electronic Skin. ACS Nano, 2018, 12, 8839-8846.	7.3	257
15	Efficient electrical control of thin-film black phosphorus bandgap. Nature Communications, 2017, 8, 14474.	5.8	249
16	Graphene Dynamic Synapse with Modulatable Plasticity. Nano Letters, 2015, 15, 8013-8019.	4.5	226
17	Large-Area, Transparent, and Flexible Infrared Photodetector Fabricated Using P-N Junctions Formed by N-Doping Chemical Vapor Deposition Grown Graphene. Nano Letters, 2014, 14, 3702-3708.	4.5	201
18	Graphene-on-Paper Sound Source Devices. ACS Nano, 2011, 5, 4878-4885.	7.3	197

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19	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. Nano Research, 2016, 9, 1543-1560.	5.8	186
20	A Novel Solid-State Thermal Rectifier Based On Reduced Graphene Oxide. Scientific Reports, 2012, 2, 523.	1.6	156
21	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. Energy and Environmental Science, 2013, 6, 108-115.	15.6	154
22	Atomically Thin Femtojoule Memristive Device. Advanced Materials, 2017, 29, 1703232.	11.1	147
23	Novel Field-Effect Schottky Barrier Transistors Based on Graphene-MoS2 Heterojunctions. Scientific Reports, 2014, 4, 5951.	1.6	134
24	A novel flexible nanogenerator made of ZnO nanoparticles and multiwall carbon nanotube. Nanoscale, 2013, 5, 6117.	2.8	130
25	Monitoring Oxygen Movement by Raman Spectroscopy of Resistive Random Access Memory with a Graphene-Inserted Electrode. Nano Letters, 2013, 13, 651-657.	4.5	121
26	Cost-Effective, Transfer-Free, Flexible Resistive Random Access Memory Using Laser-Scribed Reduced Graphene Oxide Patterning Technology. Nano Letters, 2014, 14, 3214-3219.	4.5	114
27	A spectrally tunable all-graphene-based flexible field-effect light-emitting device. Nature Communications, 2015, 6, 7767.	5.8	113
28	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. Scientific Reports, 2014, 4, 3598.	1.6	113
29	Low-symmetry two-dimensional materials for electronic and photonic applications. Nano Today, 2016, 11, 763-777.	6.2	113
30	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. ACS Nano, 2017, 11, 7156-7163.	7.3	106
31	Graphene Earphones: Entertainment for Both Humans and Animals. ACS Nano, 2014, 8, 5883-5890.	7.3	105
32	Ultra-High Sensitive NO₂ Gas Sensor Based on Tunable Polarity Transport in CVD-WS₂/IGZO p-N Heterojunction. ACS Applied Materials & Interfaces, 2019, 11, 40850-40859.	4.0	105
33	Self-adapted and tunable graphene strain sensors for detecting both subtle and large human motions. Nanoscale, 2017, 9, 8266-8273.	2.8	100
34	Efficient and bright warm-white electroluminescence from lead-free metal halides. Nature Communications, 2021, 12, 1421.	5.8	99
35	Graphene-based wearable sensors. Nanoscale, 2019, 11, 18923-18945.	2.8	98
36	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO3/Pt heterojunction structure. Applied Physics Letters, 2011, 99, .	1.5	97

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37	A Dynamically Reconfigurable Ambipolar Black Phosphorus Memory Device. ACS Nano, 2016, 10, 10428-10435.	7.3	97
38	A miniaturized microbial fuel cell with three-dimensional graphene macroporous scaffold anode demonstrating a record power density of over 10â€‰000 W m^{â^'3}. Nanoscale, 2016, 8, 3539-3547.	2.8	96
39	Single-layer graphene sound-emitting devices: experiments and modeling. Nanoscale, 2012, 4, 2272.	2.8	92
40	A self-powered organolead halide perovskite single crystal photodetector driven by a DVD-based triboelectric nanogenerator. Journal of Materials Chemistry C, 2016, 4, 630-636.	2.7	87
41	Flexible Graphite-on-Paper Piezoresistive Sensors. Sensors, 2012, 12, 6685-6694.	2.1	86
42	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. ACS Nano, 2020, 14, 2860-2868.	7.3	86
43	Surface-modified piezoresistive nanocomposite flexible pressure sensors with high sensitivity and wide linearity. Nanoscale, 2015, 7, 8636-8644.	2.8	84
44	A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain. Nature Nanotechnology, 2020, 15, 321-330.	15.6	83
45	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO3 and PEDOT-PSS. Nanoscale, 2012, 4, 2130.	2.8	81
46	Flexible electrostatic nanogenerator using graphene oxide film. Nanoscale, 2013, 5, 8951.	2.8	80
47	A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. ACS Nano, 2019, 13, 8639-8647.	7.3	80
48	An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. Nanoscale, 2018, 10, 11524-11530.	2.8	77
49	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	1.5	76
50	A novel artificial synapse with dual modes using bilayer graphene as the bottom electrode. Nanoscale, 2017, 9, 9275-9283.	2.8	70
51	Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. Carbon, 2020, 156, 253-260.	5.4	67
52	Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum. Science Advances, 2022, 8, eabn2156.	4.7	62
53	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. NPG Asia Materials, 2015, 7, e154-e154.	3.8	58
54	X-Ray Detector Based on All-Inorganic Lead-Free Cs₂AgBiBr₆ Perovskite Single Crystal. IEEE Transactions on Electron Devices, 2019, 66, 2224-2229.	1.6	57

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55	Graphene-Based Multifunctional Textile for Sensing and Actuating. ACS Nano, 2021, 15, 17738-17747.	7.3	57
56	Transparent, flexible, ultrathin sound source devices using Indium Tin oxide films. Applied Physics Letters, 2011, 99, .	1.5	56
57	Growth and Raman Spectra of Single-Crystal Trilayer Graphene with Different Stacking Orientations. ACS Nano, 2014, 8, 10766-10773.	7.3	56
58	Spatial-Temporal Imaging of Anisotropic Photocarrier Dynamics in Black Phosphorus. Nano Letters, 2017, 17, 3675-3680.	4.5	56
59	Flexible CNT-array double helices Strain Sensor with high stretchability for Motion Capture. Scientific Reports, 2015, 5, 15554.	1.6	55
60	In Situ Tuning of Switching Window in a Gateâ€Controlled Bilayer Grapheneâ€Electrode Resistive Memory Device. Advanced Materials, 2015, 27, 7767-7774.	11.1	54
61	Flexible Two-Dimensional Ti₃C₂ MXene Films as Thermoacoustic Devices. ACS Nano, 2019, 13, 12613-12620.	7.3	53
62	Interface Engineering with MoS₂â€“Pd Nanoparticles Hybrid Structure for a Low Voltage Resistive Switching Memory. Small, 2018, 14, 1702525.	5.2	52
63	A Flexible Ultrasound Transducer Array with Micro-Machined Bulk PZT. Sensors, 2015, 15, 2538-2547.	2.1	50
64	Controllable Thermal Rectification Realized in Binary Phase Change Composites. Scientific Reports, 2015, 5, 8884.	1.6	49
65	A Review on Bacteriorhodopsin-Based Bioelectronic Devices. Sensors, 2018, 18, 1368.	2.1	47
66	Flexible, ultrathin, and transparent sound-emitting devices using silver nanowires film. Applied Physics Letters, 2011, 99, .	1.5	46
67	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.	5.3	45
68	Electrooculography and Tactile Perception Collaborative Interface for 3D Humanâ€“Machine Interaction. ACS Nano, 2022, 16, 6687-6699.	7.3	44
69	An Ultra-High Element Density pMUT Array with Low Crosstalk for 3-D Medical Imaging. Sensors, 2013, 13, 9624-9634.	2.1	43
70	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. Nano Energy, 2016, 20, 48-56.	8.2	43
71	A Ferroelectric Thin Film Transistor Based on Annealing-Free HfZrO Film. IEEE Journal of the Electron Devices Society, 2017, 5, 378-383.	1.2	43
72	Substrate-Free Multilayer Graphene Electronic Skin for Intelligent Diagnosis. ACS Applied Materials & Interfaces, 2020, 12, 49945-49956.	4.0	43

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73	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. Small, 2022, 18, e2104810.	5.2	42
74	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.	1.6	40
75	A flexible, transparent and ultrathin single-layer graphene earphone. RSC Advances, 2015, 5, 17366-17371.	1.7	39
76	Ultrasensitive Heterojunctions of Graphene and 2D Perovskites Reveal Spontaneous Iodide Loss. Joule, 2018, 2, 2133-2144.	11.7	39
77	A novel flexible capacitive touch pad based on graphene oxide film. Nanoscale, 2013, 5, 890-894.	2.8	38
78	Regulating the respiration of microbe: A bio-inspired high performance microbial supercapacitor with graphene based electrodes and its kinetic features. Nano Energy, 2015, 15, 697-708.	8.2	38
79	Tunable graphene oxide reduction and graphene patterning at room temperature on arbitrary substrates. Carbon, 2016, 109, 173-181.	5.4	38
80	The Trend of 2D Transistors toward Integrated Circuits: Scaling Down and New Mechanisms. Advanced Materials, 2022, 34, e2201916.	11.1	37
81	Scalable and Direct Growth of Graphene Micro Ribbons on Dielectric Substrates. Scientific Reports, 2013, 3, 1348.	1.6	36
82	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	2.2	36
83	Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets. Scientific Reports, 2015, 5, 10582.	1.6	33
84	Graphene-Based Thermoacoustic Sound Source. ACS Nano, 2020, 14, 3779-3804.	7.3	33
85	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.	1.1	31
86	A flexible piezoelectric micromachined ultrasound transducer. RSC Advances, 2013, 3, 24900.	1.7	30
87	Grapheneâ€Based Devices for Thermal Energy Conversion and Utilization. Advanced Functional Materials, 2020, 30, 1903888.	7.8	30
88	Static behavior of a graphene-based sound-emitting device. Nanoscale, 2012, 4, 3345.	2.8	28
89	High-performance single crystal CH3NH3PbI3 perovskite x-ray detector. Applied Physics Letters, 2021, 118, .	1.5	28
90	Fabricating Molybdenum Disulfide Memristors. ACS Applied Electronic Materials, 2020, 2, 346-370.	2.0	27

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91	Negative Capacitance Oxide Thin-Film Transistor With Sub-60 mV/Decade Subthreshold Swing. IEEE Electron Device Letters, 2019, 40, 826-829.	2.2	26
92	Fabrication techniques and applications of flexible graphene-based electronic devices. Journal of Semiconductors, 2016, 37, 041001.	2.0	25
93	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. ACS Nano, 2022, 16, 10199-10208.	7.3	25
94	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-based organic, ultrathin, and transparent sound-emitting device. Applied Physics Letters, 2011, 99, 233503.	1.5	24
95	A record flexible piezoelectric KNN ultrafine-grained nanopowder-based nanogenerator. AIP Advances, 2015, 5, 017102.	0.6	24
96	Proton Conductor Gated Synaptic Transistor Based on Transparent IGZO for Realizing Electrical and UV Light Stimulus. IEEE Journal of the Electron Devices Society, 2019, 7, 38-45.	1.2	24
97	Low-voltage, large-strain soft electrothermal actuators based on laser-reduced graphene oxide/Ag particle composites. Applied Physics Letters, 2018, 112, 133902.	1.5	23
98	A reduced graphene oxide sound-emitting device: a new use for Joule heating. RSC Advances, 2013, 3, 17672.	1.7	22
99	Two-Mode MoS₂ Filament Transistor with Extremely Low Subthreshold Swing and Record High On/Off Ratio. ACS Nano, 2019, 13, 2205-2212.	7.3	22
100	An efficient flexible graphene-based light-emitting device. Nanoscale Advances, 2019, 1, 4745-4754.	2.2	22
101	Black phosphorus junctions and their electrical and optoelectronic applications. Journal of Semiconductors, 2021, 42, 081001.	2.0	22
102	A Grapheneâ€Based Filament Transistor with Subâ€10 mVdec^{â^'1} Subthreshold Swing. Advanced Electronic Materials, 2018, 4, 1700608.	2.6	21
103	High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes. , 2018, , .		21
104	Gate-Tunable Negative Differential Resistance Behaviors in a hBN-Encapsulated BP-MoS₂ Heterojunction. ACS Applied Materials & Interfaces, 2021, 13, 26161-26169.	4.0	21
105	Highly Sensitive, Wide-Range, and Flexible Pressure Sensor Based on Honeycomb-Like Graphene Network. IEEE Transactions on Electron Devices, 2020, 67, 2153-2156.	1.6	20
106	Graphene devices based on laser scribing technology. Japanese Journal of Applied Physics, 2018, 57, 04FA01.	0.8	19
107	A 2.7-mW 1.36â€“1.86-GHz LC-VCO With a FOM of 202 dBc/Hz Enabled by a 26%-Size-Reduced Nano-Particle-Magnetic-Enhanced Inductor. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1221-1228.	2.9	18
108	A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. Nanomaterials, 2016, 6, 112.	1.9	18

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109	Au Nanoparticles-Decorated Surface Plasmon Enhanced ZnO Nanorods Ultraviolet Photodetector on Flexible Transparent Mica Substrate. IEEE Journal of the Electron Devices Society, 2019, 7, 196-202.	1.2	18
110	Directly integrated mixedâ€dimensional van der Waals graphene/perovskite heterojunction for fast photodetection. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	18
111	Unipolar to ambipolar conversion in graphene field-effect transistors. Applied Physics Letters, 2012, 101, .	1.5	17
112	Transport Properties and Device Prospects of Ultrathin Black Phosphorus on Hexagonal Boron Nitride. IEEE Transactions on Electron Devices, 2017, 64, 5163-5171.	1.6	16
113	A spring-connected nanogenerator based on ZnO nanoparticles and a multiwall carbon nanotube. RSC Advances, 2014, 4, 2115-2118.	1.7	15
114	A point acoustic device based on aluminum nanowires. Nanoscale, 2016, 8, 5516-5525.	2.8	15
115	Negative Capacitance Black Phosphorus Transistors With Low SS. IEEE Transactions on Electron Devices, 2019, 66, 1579-1583.	1.6	15
116	Highly stretchable and conformal electromagnetic interference shielding armor with strain sensing ability. Chemical Engineering Journal, 2022, 431, 133908.	6.6	15
117	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. Advanced Materials Interfaces, 2018, 5, 1801216.	1.9	14
118	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. IScience, 2018, 7, 110-119.	1.9	14
119	Multi-layer graphene treated by O2 plasma for transparent conductive electrode applications. Materials Letters, 2012, 73, 187-189.	1.3	13
120	MoS₂ Synaptic Transistor With Tunable Weight Profile. IEEE Transactions on Electron Devices, 2018, 65, 3543-3547.	1.6	13
121	Electrode/oxide interface engineering by inserting single-layer graphene: Application for HfO<inf>x</inf>-based resistive random access memory. , 2012, , .		12
122	High-performance sound source devices based on graphene woven fabrics. Applied Physics Letters, 2017, 110, .	1.5	12
123	The Origin of CBRAM With High Linearity, On/Off Ratio, and State Number for Neuromorphic Computing. IEEE Transactions on Electron Devices, 2021, 68, 2568-2571.	1.6	12
124	Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. Applied Sciences (Switzerland), 2022, 12, 4526.	1.3	12
125	Electromyogram-strain synergetic intelligent artificial throat. Chemical Engineering Journal, 2022, 449, 137741.	6.6	11
126	A novel cell-scale bio-nanogenerator based on electronâ€“ion interaction for fast light power conversion. Nanoscale, 2018, 10, 526-532.	2.8	10

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127	Filling the gap: thermal properties and device applications of graphene. Science China Information Sciences, 2021, 64, 1.	2.7	10
128	Ultrathin Anion Conductors Based Memristor. Advanced Electronic Materials, 2022, 8, 2100845.	2.6	10
129	A novel thermal acoustic device based on porous graphene. AIP Advances, 2016, 6, .	0.6	9
130	Lower Power, Better Uniformity, and Stability CBRAM Enabled by Graphene Nanohole Interface Engineering. IEEE Transactions on Electron Devices, 2020, 67, 984-988.	1.6	9
131	A 10Ânm Short Channel MoS₂ Transistor without the Resolution Requirement of Photolithography. Advanced Electronic Materials, 2021, 7, 2100543.	2.6	9
132	Wafer-Scale Flexible Surface Acoustic Wave Devices Based on an AlN/Si Structure. Chinese Physics Letters, 2013, 30, 077701.	1.3	8
133	Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. Journal Physics D: Applied Physics, 2021, 54, 364003.	1.3	8
134	Bipolar and unipolar resistive switching effects in an Al/DLC/W structure. Journal Physics D: Applied Physics, 2012, 45, 365103.	1.3	7
135	Laser directed lithography of asymmetric graphene ribbons on a polydimethylsiloxane trench structure. Physical Chemistry Chemical Physics, 2013, 15, 6825.	1.3	7
136	The use of graphene-based earphones in wireless communication. Tsinghua Science and Technology, 2015, 20, 270-276.	4.1	7
137	A Reduced Graphene Oxide (rGO)â€Ferroelectrics Hybrid Nanocomposite as High Efficient Visibleâ€Lightâ€Driven Photocatalyst. ChemistrySelect, 2016, 1, 6020-6025.	0.7	7
138	A small-signal generator based on a multi-layer graphene/molybdenum disulfide heterojunction. Applied Physics Letters, 2013, 103, .	1.5	6
139	Electrospun Nanofibers for Integrated Sensing, Storage, and Computing Applications. Applied Sciences (Switzerland), 2022, 12, 4370.	1.3	6
140	Towards quantitative mapping of the charge distribution along a nanowire by in-line electron holography. Ultramicroscopy, 2018, 194, 126-132.	0.8	5
141	Optimization of graphene/silicon heterojunction solar cells. , 2012, , .		4
142	Flexible and large-area sound-emitting device using reduced graphene oxide. , 2013, , .		4
143	A Novel Fabrication Method for Flexible SOI Substrate Based on Trench Refilling with Polydimethylsiloxane. Chinese Physics Letters, 2013, 30, 086201.	1.3	4
144	Wafer-scale flexible graphene loudspeakers. , 2014, , .		3

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145	In situ observation of electrical property of thin-layer black phosphorus based on dry transfer method. Applied Physics Express, 2016, 9, 045202.	1.1	3
146	High-Quality Reconfigurable Black Phosphorus p-n Junctions. IEEE Transactions on Electron Devices, 2018, , 1-5.	1.6	3
147	Comparison of Photovoltaic Performance Enhancement in BiFeO3 by Using Graphene and Carbon Nanotubes as Transparent Electrode. , 2012, , .		2
148	Hydrodynamic Sensing Based on Surface-Modified Flexible Nanocomposite Film. Chinese Physics Letters, 2015, 32, 114301.	1.3	2
149	Total-Ionizing-Dose Effects on a Graphene X-Ray Detector Laser-Scribed From Graphene Oxide. IEEE Transactions on Nuclear Science, 2018, 65, 473-477.	1.2	2
150	First Principles Study of Memory Selectors using Heterojunctions of 2D Layered Materials. , 2018, , .		2
151	High sensitive surface-acoustic-wave optical sensor based on two-dimensional perovskite. , 2019, , .		2
152	Anomalous thermoacoustic effect in topological insulator for sound applications. Applied Physics Letters, 2020, 117, 123502.	1.5	2
153	High Efficiency and Anomalous Photoacoustic Behavior in Vertical CNTs Array. Energy and Environmental Materials, 2023, 6, .	7.3	2
154	Industrial-scale production of high-quality graphene sheets by millstone grinders. Journal Physics D: Applied Physics, 2022, 55, 164002.	1.3	2
155	Modeling of Gate Tunable Synaptic Device for Neuromorphic Applications. Frontiers in Physics, 2021, 9, .	1.0	2
156	Bipolar and unipolar resistive switching effects in Al/DLC/W structure. Journal Physics D: Applied Physics, 2012, 45, 429501.	1.3	1
157	Micromachined piezoelectric devices for acoustic applications. , 2012, , .		1
158	Wafer-scale flexible graphene strain sensors. , 2013, , .		1
159	Flexible, transparent single-layer graphene earphone. , 2014, , .		1
160	An ultra-sensitive resistive pressure sensor based on the V-shaped foam-like structure of laser-scribed graphene. , 2014, , .		1
161	Large-scale fabrication of graphene-based electronic and MEMS devices. , 2014, , .		1
162	A micro-scale microbial supercapacitor. , 2014, , .		1

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163	Memory Devices: In Situ Tuning of Switching Window in a Gate-Controlled Bilayer Graphene-Electrode Resistive Memory Device (Adv. Mater. 47/2015). Advanced Materials, 2015, 27, 7766-7766.	11.1	1
164	Novel electronic and photonic properties of low-symmetry two-dimensional materials. , 2016, , .		1
165	Tunable and wearable high performance strain sensors based on laser patterned graphene flakes. , 2016, , .		1
166	Novel electron devices based on laser scribed graphene. , 2017, , .		1
167	Piezoelectric Micromachined Ultrasonic Transducers for Ultrasound Imaging. , 2018, , .		1
168	High Performance and Wireless Graphene Earphone towards Practical Applications. , 2020, , .		1
169	Graphene muscle with artificial intelligence. , 2020, , .		1
170	Transistor Subthreshold Swing Lowered by 2-D Heterostructures. IEEE Transactions on Electron Devices, 2021, 68, 411-414.	1.6	1
171	Cs₂AgBiBr₆-Tellurium heterojunction-based high-performance X-ray detectors. , 2022, , .		1
172	The Î±-In₂Se₃ THz Photodetector. IEEE Transactions on Electron Devices, 2022, 69, 4371-4376.	1.6	1
173	Multilayer graphene growth by a metal-catalyzed crystallization of diamond-like carbon. , 2012, , .		0
174	A high order mode 6.4GHz ultra-high sensitivity nanoscale surface acoustic wave biosensor. , 2013, , .		0
175	A new type silicon based PIN photodetector linear array for rainfall prediction. , 2014, , .		0
176	Novel flexible nanogenerators. , 2014, , .		0
177	Novel laser scribed graphene devices. , 2014, , .		0
178	K0.5Na0.5NbO3-based self-powered pressure sensor. Tsinghua Science and Technology, 2015, 20, 264-269.	4.1	0
179	Graphem stack: Growth, characterization and diverse devices. , 2015, , .		0
180	A discovery of an ultra-pure water detection method based on water mark. Modern Physics Letters B, 2015, 29, 1450271.	1.0	0

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181	Biological information wireless monitoring system. , 2015, , .		0
182	Vertical ambipolar barrier transistor based on black phosphorous-tin selenide van der waals heterojunction. , 2016, , .		0
183	Novel memory devices based on nanostructured carbon materials. , 2016, , .		0
184	Novel graphene-based resistive random access memory. , 2016, , .		0
185	Electrical thermal acoustic point source based on mems technology. , 2016, , .		0
186	Novel Field Effect Transistor Fabrication Based on Non-Graphene 2D Materials. MRS Advances, 2017, 2, 3675-3684.	0.5	0
187	A Two-terminal Electric-double-layer Synaptic Device with Short-term Plasticity. , 2018, , .		0
188	Novel Perovskite-Based Devices. , 2019, , .		0
189	Introductory Chapter: Perovskite Materials and Advanced Applications. , 0, , .		0
190	Novel photoelectroactive memories and neuromorphic devices based on nanomaterials. , 2020, , 201-222.		0
191	A Spectrum-Tunable and Flexible Light-Emitting Device with Ultra-Wide Wavelength Range. , 2020, , .		0
192	Thermal Energy Conversion: Grapheneâ€Based Devices for Thermal Energy Conversion and Utilization (Adv. Funct. Mater. 8/2020). Advanced Functional Materials, 2020, 30, 2070052.	7.8	0
193	Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate. , 2021, , .		0