

He Tian

List of Publications by Year in descending order

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papers

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28274

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194
all docs

194
docs citations

194
times ranked

17476
citing authors

#	ARTICLE	IF	CITATIONS
1	High Efficiency and Anomalous Photoacoustic Behavior in Vertical CNTs Array. Energy and Environmental Materials, 2023, 6, .	12.8	2
2	Ultrathin Anion Conductors Based Memristor. Advanced Electronic Materials, 2022, 8, 2100845.	5.1	10
3	Highly stretchable and conformal electromagnetic interference shielding armor with strain sensing ability. Chemical Engineering Journal, 2022, 431, 133908.	12.7	15
4	Industrial-scale production of high-quality graphene sheets by millstone grinders. Journal Physics D: Applied Physics, 2022, 55, 164002.	2.8	2
5	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. Small, 2022, 18, e2104810.	10.0	42
6	Electrooculography and Tactile Perception Collaborative Interface for 3D Human-Machine Interaction. ACS Nano, 2022, 16, 6687-6699.	14.6	44
7	Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum. Science Advances, 2022, 8, eabn2156.	10.3	62
8	Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. Applied Sciences (Switzerland), 2022, 12, 4526.	2.5	12
9	Electrospun Nanofibers for Integrated Sensing, Storage, and Computing Applications. Applied Sciences (Switzerland), 2022, 12, 4370.	2.5	6
10	The Trend of 2D Transistors toward Integrated Circuits: Scaling Down and New Mechanisms. Advanced Materials, 2022, 34, e2201916.	21.0	37
11	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. ACS Nano, 2022, 16, 10199-10208.	14.6	25
12	Cs ₂ AgBiBr ₆ -Tellurium heterojunction-based high-performance X-ray detectors. , 2022, , .		1
13	Electromyogram-strain synergetic intelligent artificial throat. Chemical Engineering Journal, 2022, 449, 137741.	12.7	11
14	The In ₂ Se ₃ THz Photodetector. IEEE Transactions on Electron Devices, 2022, 69, 4371-4376.	3.0	1
15	Directly integrated mixed-dimensional van der Waals graphene/perovskite heterojunction for fast photodetection. Informa-Materially, 2022, 4, .	17.3	18
16	High-performance single crystal CH ₃ NH ₃ PbI ₃ perovskite x-ray detector. Applied Physics Letters, 2021, 118, .	3.3	28
17	Filling the gap: thermal properties and device applications of graphene. Science China Information Sciences, 2021, 64, 1.	4.3	10
18	Efficient and bright warm-white electroluminescence from lead-free metal halides. Nature Communications, 2021, 12, 1421.	12.8	99

#	ARTICLE	IF	CITATIONS
19	Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate. , 2021, , .		0
20	Gate-Tunable Negative Differential Resistance Behaviors in a hBN-Encapsulated BP-MoS ₂ Heterojunction. ACS Applied Materials & Interfaces, 2021, 13, 26161-26169.	8.0	21
21	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.	3.0	12
22	Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. Journal Physics D: Applied Physics, 2021, 54, 364003.	2.8	8
23	Black phosphorus junctions and their electrical and optoelectronic applications. Journal of Semiconductors, 2021, 42, 081001.	3.7	22
24	Transistor Subthreshold Swing Lowered by 2-D Heterostructures. IEEE Transactions on Electron Devices, 2021, 68, 411-414.	3.0	1
25	A 10Ånm Short Channel MoS ₂ Transistor without the Resolution Requirement of Photolithography. Advanced Electronic Materials, 2021, 7, 2100543.	5.1	9
26	Graphene-Based Multifunctional Textile for Sensing and Actuating. ACS Nano, 2021, 15, 17738-17747.	14.6	57
27	Modeling of Gate Tunable Synaptic Device for Neuromorphic Applications. Frontiers in Physics, 2021, 9, .	2.1	2
28	Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. Carbon, 2020, 156, 253-260.	10.3	67
29	Graphene-Based Devices for Thermal Energy Conversion and Utilization. Advanced Functional Materials, 2020, 30, 1903888.	14.9	30
30	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	3.9	36
31	Fabricating Molybdenum Disulfide Memristors. ACS Applied Electronic Materials, 2020, 2, 346-370.	4.3	27
32	Substrate-Free Multilayer Graphene Electronic Skin for Intelligent Diagnosis. ACS Applied Materials & Interfaces, 2020, 12, 49945-49956.	8.0	43
33	Anomalous thermoacoustic effect in topological insulator for sound applications. Applied Physics Letters, 2020, 117, 123502.	3.3	2
34	High Performance and Wireless Graphene Earphone towards Practical Applications. , 2020, , .		1
35	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
36	Graphene muscle with artificial intelligence. , 2020, , .		1

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37	Graphene-Based Thermoacoustic Sound Source. ACS Nano, 2020, 14, 3779-3804.	14.6	33
38	Novel photoelectroactive memories and neuromorphic devices based on nanomaterials. , 2020, , 201-222.		0
39	A Spectrum-Tunable and Flexible Light-Emitting Device with Ultra-Wide Wavelength Range. , 2020, , .		0
40	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
41	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
42	A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain. Nature Nanotechnology, 2020, 15, 321-330.	31.5	83
43	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. ACS Nano, 2020, 14, 2860-2868.	14.6	86
44	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
45	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. Nature Photonics, 2019, 13, 760-764.	31.4	483
46	High sensitive surface-acoustic-wave optical sensor based on two-dimensional perovskite. , 2019, , .		2
47	A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. ACS Nano, 2019, 13, 8639-8647.	14.6	80
48	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
49	Graphene-based wearable sensors. Nanoscale, 2019, 11, 18923-18945.	5.6	98
50	Flexible Two-Dimensional Ti ₃ C ₂ MXene Films as Thermoacoustic Devices. ACS Nano, 2019, 13, 12613-12620.	14.6	53
51	Ultra-High Sensitive NO ₂ Gas Sensor Based on Tunable Polarity Transport in CVD-WS ₂ /IGZO p-N Heterojunction. ACS Applied Materials & Interfaces, 2019, 11, 40850-40859.	8.0	105
52	Two-Mode MoS ₂ Filament Transistor with Extremely Low Subthreshold Swing and Record High On/Off Ratio. ACS Nano, 2019, 13, 2205-2212.	14.6	22
53	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
54	Negative Capacitance Oxide Thin-Film Transistor With Sub-60 mV/Decade Subthreshold Swing. IEEE Electron Device Letters, 2019, 40, 826-829.	3.9	26

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55	Novel Perovskite-Based Devices. , 2019, , .		0
56	An efficient flexible graphene-based light-emitting device. Nanoscale Advances, 2019, 1, 4745-4754.	4.6	22
57	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.	2.1	18
58	Negative Capacitance Black Phosphorus Transistors With Low SS. IEEE Transactions on Electron Devices, 2019, 66, 1579-1583.	3.0	15
59	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.	2.1	24
60	Graphene devices based on laser scribing technology. Japanese Journal of Applied Physics, 2018, 57, 04FA01.	1.5	19
61	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
62	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
63	A Graphene-Based Filament Transistor with Sub ~ 10 mVdec ⁻¹ Subthreshold Swing. Advanced Electronic Materials, 2018, 4, 1700608.	5.1	21
64	A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. Nanoscale, 2018, 10, 526-532.	5.6	10
65	Interface Engineering with MoS ₂ -Pd Nanoparticles Hybrid Structure for a Low Voltage Resistive Switching Memory. Small, 2018, 14, 1702525.	10.0	52
66	High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes. , 2018, , .		21
67	First Principles Study of Memory Selectors using Heterojunctions of 2D Layered Materials. , 2018, , .		2
68	Ultrasensitive Heterojunctions of Graphene and 2D Perovskites Reveal Spontaneous Iodide Loss. Joule, 2018, 2, 2133-2144.	24.0	39
69	High-Quality Reconfigurable Black Phosphorus p-n Junctions. IEEE Transactions on Electron Devices, 2018, , 1-5.	3.0	3
70	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. Advanced Materials Interfaces, 2018, 5, 1801216.	3.7	14
71	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253.	27.8	1,555
72	Piezoelectric Micromachined Ultrasonic Transducers for Ultrasound Imaging. , 2018, , .		1

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73	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. IScience, 2018, 7, 110-119.	4.1	14
74	Wearable humidity sensor based on porous graphene network for respiration monitoring. Biosensors and Bioelectronics, 2018, 116, 123-129.	10.1	278
75	An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. Nanoscale, 2018, 10, 11524-11530.	5.6	77
76	MoS ₂ Synaptic Transistor With Tunable Weight Profile. IEEE Transactions on Electron Devices, 2018, 65, 3543-3547.	3.0	13
77	A Two-terminal Electric-double-layer Synaptic Device with Short-term Plasticity. , 2018, , .		0
78	Multilayer Graphene Epidermal Electronic Skin. ACS Nano, 2018, 12, 8839-8846.	14.6	257
79	Low-voltage, large-strain soft electrothermal actuators based on laser-reduced graphene oxide/Ag particle composites. Applied Physics Letters, 2018, 112, 133902.	3.3	23
80	A Review on Bacteriorhodopsin-Based Bioelectronic Devices. Sensors, 2018, 18, 1368.	3.8	47
81	Towards quantitative mapping of the charge distribution along a nanowire by in-line electron holography. Ultramicroscopy, 2018, 194, 126-132.	1.9	5
82	An intelligent artificial throat with sound-sensing ability based on laser induced graphene. Nature Communications, 2017, 8, 14579.	12.8	396
83	Efficient electrical control of thin-film black phosphorus bandgap. Nature Communications, 2017, 8, 14474.	12.8	249
84	High-performance sound source devices based on graphene woven fabrics. Applied Physics Letters, 2017, 110, .	3.3	12
85	Novel electron devices based on laser scribed graphene. , 2017, , .		1
86	A novel artificial synapse with dual modes using bilayer graphene as the bottom electrode. Nanoscale, 2017, 9, 9275-9283.	5.6	70
87	Novel Field Effect Transistor Fabrication Based on Non-Graphene 2D Materials. MRS Advances, 2017, 2, 3675-3684.	0.9	0
88	Self-adapted and tunable graphene strain sensors for detecting both subtle and large human motions. Nanoscale, 2017, 9, 8266-8273.	5.6	100
89	Spatial-Temporal Imaging of Anisotropic Photocarrier Dynamics in Black Phosphorus. Nano Letters, 2017, 17, 3675-3680.	9.1	56
90	Atomically Thin Femtojoule Memristive Device. Advanced Materials, 2017, 29, 1703232.	21.0	147

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91	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
92	Graphene-Paper Pressure Sensor for Detecting Human Motions. ACS Nano, 2017, 11, 8790-8795.	14.6	572
93	Extremely Low Operating Current Resistive Memory Based on Exfoliated 2D Perovskite Single Crystals for Neuromorphic Computing. ACS Nano, 2017, 11, 12247-12256.	14.6	286
94	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. ACS Nano, 2017, 11, 7156-7163.	14.6	106
95	Transport Properties and Device Prospects of Ultrathin Black Phosphorus on Hexagonal Boron Nitride. IEEE Transactions on Electron Devices, 2017, 64, 5163-5171.	3.0	16
96	A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. Nanomaterials, 2016, 6, 112.	4.1	18
97	Novel electronic and photonic properties of low-symmetry two-dimensional materials. , 2016, , .		1
98	A novel thermal acoustic device based on porous graphene. AIP Advances, 2016, 6, .	1.3	9
99	Tunable and wearable high performance strain sensors based on laser patterned graphene flakes. , 2016, , .		1
100	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. Nano Research, 2016, 9, 1543-1560.	10.4	186
101	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	31.4	1,535
102	Flexible, Highly Sensitive, and Wearable Pressure and Strain Sensors with Graphene Porous Network Structure. ACS Applied Materials & Interfaces, 2016, 8, 26458-26462.	8.0	387
103	Tunable graphene oxide reduction and graphene patterning at room temperature on arbitrary substrates. Carbon, 2016, 109, 173-181.	10.3	38
104	Vertical ambipolar barrier transistor based on black phosphorous-tin selenide van der waals heterojunction. , 2016, , .		0
105	Novel memory devices based on nanostructured carbon materials. , 2016, , .		0
106	Low-symmetry two-dimensional materials for electronic and photonic applications. Nano Today, 2016, 11, 763-777.	11.9	113
107	A Reduced Graphene Oxide (rGO)â€Ferroelectrics Hybrid Nanocomposite as High Efficient Visibleâ€Lightâ€Driven Photocatalyst. ChemistrySelect, 2016, 1, 6020-6025.	1.5	7
108	A Dynamically Reconfigurable Ambipolar Black Phosphorus Memory Device. ACS Nano, 2016, 10, 10428-10435.	14.6	97

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109	Novel graphene-based resistive random access memory. , 2016, , .		0
110	Black Phosphorus Mid-Infrared Photodetectors with High Gain. Nano Letters, 2016, 16, 4648-4655.	9.1	616
111	Fabrication techniques and applications of flexible graphene-based electronic devices. Journal of Semiconductors, 2016, 37, 041001.	3.7	25
112	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. Advanced Materials, 2016, 28, 4991-4997.	21.0	281
113	A point acoustic device based on aluminum nanowires. Nanoscale, 2016, 8, 5516-5525.	5.6	15
114	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.	5.5	87
115	In situ observation of electrical property of thin-layer black phosphorus based on dry transfer method. Applied Physics Express, 2016, 9, 045202.	2.4	3
116	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. Nano Energy, 2016, 20, 48-56.	16.0	43
117	Electrical thermal acoustic point source based on mems technology. , 2016, , .		0
118	A miniaturized microbial fuel cell with three-dimensional graphene macroporous scaffold anode demonstrating a record power density of over 10^3 W m^{-3} . Nanoscale, 2016, 8, 3539-3547.	5.6	96
119	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.	21.0	1
120	K0.5Na0.5NbO3-based self-powered pressure sensor. Tsinghua Science and Technology, 2015, 20, 264-269.	6.1	0
121	Hydrodynamic Sensing Based on Surface-Modified Flexible Nanocomposite Film. Chinese Physics Letters, 2015, 32, 114301.	3.3	2
122	Flexible CNT-array double helices Strain Sensor with high stretchability for Motion Capture. Scientific Reports, 2015, 5, 15554.	3.3	55
123	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
124	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.	16.0	38
125	Graphem stack: Growth, characterization and diverse devices. , 2015, , .		0
126	The use of graphene-based earphones in wireless communication. Tsinghua Science and Technology, 2015, 20, 270-276.	6.1	7

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127	A flexible, transparent and ultrathin single-layer graphene earphone. RSC Advances, 2015, 5, 17366-17371.	3.6	39
128	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. NPG Asia Materials, 2015, 7, e154-e154.	7.9	58
129	A Graphene-Based Resistive Pressure Sensor with Record-High Sensitivity in a Wide Pressure Range. Scientific Reports, 2015, 5, 8603.	3.3	415
130	Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets. Scientific Reports, 2015, 5, 10582.	3.3	33
131	A spectrally tunable all-graphene-based flexible field-effect light-emitting device. Nature Communications, 2015, 6, 7767.	12.8	113
132	A Flexible Ultrasound Transducer Array with Micro-Machined Bulk PZT. Sensors, 2015, 15, 2538-2547.	3.8	50
133	A discovery of an ultra-pure water detection method based on water mark. Modern Physics Letters B, 2015, 29, 1450271.	1.9	0
134	Surface-modified piezoresistive nanocomposite flexible pressure sensors with high sensitivity and wide linearity. Nanoscale, 2015, 7, 8636-8644.	5.6	84
135	Controllable Thermal Rectification Realized in Binary Phase Change Composites. Scientific Reports, 2015, 5, 8884.	3.3	49
136	Graphene Dynamic Synapse with Modulatable Plasticity. Nano Letters, 2015, 15, 8013-8019.	9.1	226
137	A record flexible piezoelectric KNN ultrafine-grained nanopowder-based nanogenerator. AIP Advances, 2015, 5, 017102.	1.3	24
138	Biological information wireless monitoring system. , 2015, , .		0
139	Flexible, transparent single-layer graphene earphone. , 2014, , .		1
140	An ultra-sensitive resistive pressure sensor based on the V-shaped foam-like structure of laser-scribed graphene. , 2014, , .		1
141	A new type silicon based PIN photodetector linear array for rainfall prediction. , 2014, , .		0
142	Large-scale fabrication of graphene-based electronic and MEMS devices. , 2014, , .		1
143	Novel flexible nanogenerators. , 2014, , .		0
144	A 2.7-mW 1.36-1.86-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.	4.6	18

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145	A micro-scale microbial supercapacitor. , 2014, , .		1
146	Graphene Earphones: Entertainment for Both Humans and Animals. ACS Nano, 2014, 8, 5883-5890.	14.6	105
147	Scalable fabrication of high-performance and flexible graphene strain sensors. Nanoscale, 2014, 6, 699-705.	5.6	366
148	Wafer-scale flexible graphene loudspeakers. , 2014, , .		3
149	Novel laser scribed graphene devices. , 2014, , .		0
150	A spring-connected nanogenerator based on ZnO nanoparticles and a multiwall carbon nanotube. RSC Advances, 2014, 4, 2115-2118.	3.6	15
151	Growth and Raman Spectra of Single-Crystal Trilayer Graphene with Different Stacking Orientations. ACS Nano, 2014, 8, 10766-10773.	14.6	56
152	Cost-Effective, Transfer-Free, Flexible Resistive Random Access Memory Using Laser-Scribed Reduced Graphene Oxide Patterning Technology. Nano Letters, 2014, 14, 3214-3219.	9.1	114
153	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.	9.1	201
154	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. Scientific Reports, 2014, 4, 3598.	3.3	113
155	Novel Field-Effect Schottky Barrier Transistors Based on Graphene-MoS ₂ Heterojunctions. Scientific Reports, 2014, 4, 5951.	3.3	134
156	Flexible and large-area sound-emitting device using reduced graphene oxide. , 2013, , .		4
157	Scalable and Direct Growth of Graphene Micro Ribbons on Dielectric Substrates. Scientific Reports, 2013, 3, 1348.	3.3	36
158	A small-signal generator based on a multi-layer graphene/molybdenum disulfide heterojunction. Applied Physics Letters, 2013, 103, .	3.3	6
159	A reduced graphene oxide sound-emitting device: a new use for Joule heating. RSC Advances, 2013, 3, 17672.	3.6	22
160	Flexible electrostatic nanogenerator using graphene oxide film. Nanoscale, 2013, 5, 8951.	5.6	80
161	A flexible piezoelectric micromachined ultrasound transducer. RSC Advances, 2013, 3, 24900.	3.6	30
162	Wafer-scale flexible graphene strain sensors. , 2013, , .		1

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163	Laser directed lithography of asymmetric graphene ribbons on a polydimethylsiloxane trench structure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6825.	2.8	7
164	A high order mode 6.4GHz ultra-high sensitivity nanoscale surface acoustic wave biosensor. , 2013, , .		0
165	A novel flexible capacitive touch pad based on graphene oxide film. <i>Nanoscale</i> , 2013, 5, 890-894.	5.6	38
166	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
167	A novel flexible nanogenerator made of ZnO nanoparticles and multiwall carbon nanotube. <i>Nanoscale</i> , 2013, 5, 6117.	5.6	130
168	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
169	An Ultra-High Element Density pMUT Array with Low Crosstalk for 3-D Medical Imaging. <i>Sensors</i> , 2013, 13, 9624-9634.	3.8	43
170	Wafer-Scale Flexible Surface Acoustic Wave Devices Based on an AlN/Si Structure. <i>Chinese Physics Letters</i> , 2013, 30, 077701.	3.3	8
171	A Novel Fabrication Method for Flexible SOI Substrate Based on Trench Refilling with Polydimethylsiloxane. <i>Chinese Physics Letters</i> , 2013, 30, 086201.	3.3	4
172	Flexible Graphite-on-Paper Piezoresistive Sensors. <i>Sensors</i> , 2012, 12, 6685-6694.	3.8	86
173	Bipolar and unipolar resistive switching effects in Al/DLC/W structure. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 429501.	2.8	1
174	Resistive switching behavior in diamond-like carbon films grown by pulsed laser deposition for resistance switching random access memory application. <i>Journal of Applied Physics</i> , 2012, 111, 084501.	2.5	31
175	Bipolar and unipolar resistive switching effects in an Al/DLC/W structure. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 365103.	2.8	7
176	Electrode/oxide interface engineering by inserting single-layer graphene: Application for HfO ₂ -based resistive random access memory. , 2012, , .		12
177	Optimization of graphene/silicon heterojunction solar cells. , 2012, , .		4
178	Multilayer graphene growth by a metal-catalyzed crystallization of diamond-like carbon. , 2012, , .		0
179	Unipolar to ambipolar conversion in graphene field-effect transistors. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	17
180	Static behavior of a graphene-based sound-emitting device. <i>Nanoscale</i> , 2012, 4, 3345.	5.6	28

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181	Comparison of Photovoltaic Performance Enhancement in BiFeO ₃ by Using Graphene and Carbon Nanotubes as Transparent Electrode. , 2012, , .		2
182	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO ₃ and PEDOT-PSS. Nanoscale, 2012, 4, 2130.	5.6	81
183	Micromachined piezoelectric devices for acoustic applications. , 2012, , .		1
184	Single-layer graphene sound-emitting devices: experiments and modeling. Nanoscale, 2012, 4, 2272.	5.6	92
185	A Novel Solid-State Thermal Rectifier Based On Reduced Graphene Oxide. Scientific Reports, 2012, 2, 523.	3.3	156
186	Multi-layer graphene treated by O ₂ plasma for transparent conductive electrode applications. Materials Letters, 2012, 73, 187-189.	2.6	13
187	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO ₃ /Pt heterojunction structure. Applied Physics Letters, 2011, 99, .	3.3	97
188	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	3.3	76
189	Transparent, flexible, ultrathin sound source devices using Indium Tin oxide films. Applied Physics Letters, 2011, 99, .	3.3	56
190	Graphene-on-Paper Sound Source Devices. ACS Nano, 2011, 5, 4878-4885.	14.6	197
191	Flexible, ultrathin, and transparent sound-emitting devices using silver nanowires film. Applied Physics Letters, 2011, 99, .	3.3	46
192	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-based organic, ultrathin, and transparent sound-emitting device. Applied Physics Letters, 2011, 99, 233503.	3.3	24
193	Introductory Chapter: Perovskite Materials and Advanced Applications. , 0, , .		0