

# He Tian

## 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.

165  
papers

10,569  
citations

47  
h-index

101  
g-index

194  
ext. papers

12,718  
ext. citations

9  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
165	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
164	Electrooculography and Tactile Perception Collaborative Interface for 3D Human-Machine Interaction.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	6
163	Two-stage amplification of an ultrasensitive MXene-based intelligent artificial eardrum.. <i>Science Advances</i> , <b>2022</b> , 8, eabn2156	14.3	11
162	Graphene-Based Flexible Electrode for Electrocardiogram Signal Monitoring. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4526	2.6	1
161	Electrospun Nanofibers for Integrated Sensing, Storage, and Computing Applications. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4370	2.6	2
160	The trend of 2D transistors toward integrated circuits: Scaling down and new mechanisms.. <i>Advanced Materials</i> , <b>2022</b> , e2201916	24	4
159	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , <b>2021</b> , e2104810	11	14
158	Highly Stretchable and Conformal Electromagnetic Interference Shielding Armor with Strain Sensing Ability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133908	14.7	3
157	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
156	Graphene-Based Multifunctional Textile for Sensing and Actuating. <i>ACS Nano</i> , <b>2021</b> ,	16.7	11
155	Filling the gap: thermal properties and device applications of graphene. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	3
154	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , <b>2021</b> , 12, 1421	17.4	38
153	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
152	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
151	Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 364003	3	3
150	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
149	Black phosphorus junctions and their electrical and optoelectronic applications. <i>Journal of Semiconductors</i> , <b>2021</b> , 42, 081001	2.3	5

148	Transistor Subthreshold Swing Lowered by 2-D Heterostructures. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 411-414	2.9	1
147	High Performance and Wireless Graphene Earphone towards Practical Applications <b>2020</b> ,		1
146	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
145	Graphene-Based Thermoacoustic Sound Source. <i>ACS Nano</i> , <b>2020</b> , 14, 3779-3804	16.7	12
144	Novel photoelectroactive memories and neuromorphic devices based on nanomaterials <b>2020</b> , 201-222		
143	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
142	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	
141	A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 321-330	28.7	42
140	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. <i>ACS Nano</i> , <b>2020</b> , 14, 2860-2868		52
139	. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 2153-2156	2.9	11
138	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
137	Fabricating Molybdenum Disulfide Memristors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 346-370	4	10
136	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
135	Anomalous thermoacoustic effect in topological insulator for sound applications. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 123502	3.4	1
134	Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene. <i>Carbon</i> , <b>2020</b> , 156, 253-260	10.4	45
133	Graphene-Based Devices for Thermal Energy Conversion and Utilization. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1903888	15.6	18
132	Graphene-based wearable sensors. <i>Nanoscale</i> , <b>2019</b> , 11, 18923-18945	7.7	50
131	Flexible Two-Dimensional TiC MXene Films as Thermoacoustic Devices. <i>ACS Nano</i> , <b>2019</b> , 13, 12613-12620	6.7	28

130	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
129	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
128	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
127	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
126	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. <i>Nature Photonics</i> , <b>2019</b> , 13, 760-764	33.9	313
125	High sensitive surface-acoustic-wave optical sensor based on two-dimensional perovskite <b>2019</b> ,		1
124	A Wearable Skinlike Ultra-Sensitive Artificial Graphene Throat. <i>ACS Nano</i> , <b>2019</b> , 13, 8639-8647	16.7	45
123	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
122	Graphene-Based Synaptic Devices for Neuromorphic Applications <b>2019</b> , 99-142		
121	An efficient flexible graphene-based light-emitting device. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4745-4754	5.1	14
120	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
119	Negative Capacitance Black Phosphorus Transistors With Low SS. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 1579-1583	2.9	10
118	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
117	Graphene devices based on laser scribing technology. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FA01	14	7
116	. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 473-477	1.7	0
115	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. <i>ACS Nano</i> , <b>2018</b> , 12, 2346-2354	16.7	361
114	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
113	Multilayer Graphene Epidermal Electronic Skin. <i>ACS Nano</i> , <b>2018</b> , 12, 8839-8846	16.7	180

112	Low-voltage, large-strain soft electrothermal actuators based on laser-reduced graphene oxide/Ag particle composites. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 133902	3.4	14
111	A Review on Bacteriorhodopsin-Based Bioelectronic Devices. <i>Sensors</i> , <b>2018</b> , 18,	3.8	27
110	Towards quantitative mapping of the charge distribution along a nanowire by in-line electron holography. <i>Ultramicroscopy</i> , <b>2018</b> , 194, 126-132	3.1	3
109	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
108	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
107	High Performance 2D Perovskite/Graphene Optical Synapses as Artificial Eyes <b>2018</b> ,		13
106	First Principles Study of Memory Selectors using Heterojunctions of 2D Layered Materials <b>2018</b> ,		2
105	Ultrasensitive Heterojunctions of Graphene and 2D Perovskites Reveal Spontaneous Iodide Loss. <i>Joule</i> , <b>2018</b> , 2, 2133-2144	27.8	27
104	High-Quality Reconfigurable Black Phosphorus p-n Junctions. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 1-5	2.9	3
103	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1801216	4.6	8
102	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. <i>Nature</i> , <b>2018</b> , 562, 249-253	50.4	1116
101	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. <i>IScience</i> , <b>2018</b> , 7, 110-119	6.1	8
100	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
99	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
98	MoS <sub>2</sub> Synaptic Transistor With Tunable Weight Profile. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3543-3547	2.9	8
97	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
96	Efficient electrical control of thin-film black phosphorus bandgap. <i>Nature Communications</i> , <b>2017</b> , 8, 14474	17.4	183
95	High-performance sound source devices based on graphene woven fabrics. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 093110	3.4	9

94	Novel electron devices based on laser scribed graphene <b>2017</b> ,		1
93	A novel artificial synapse with dual modes using bilayer graphene as the bottom electrode. <i>Nanoscale</i> , <b>2017</b> , 9, 9275-9283	7.7	55
92	Novel Field Effect Transistor Fabrication Based on Non-Graphene 2D Materials. <i>MRS Advances</i> , <b>2017</b> , 2, 3675-3684	0.7	
91	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
90	Spatial-Temporal Imaging of Anisotropic Photocarrier Dynamics in Black Phosphorus. <i>Nano Letters</i> , <b>2017</b> , 17, 3675-3680	11.5	40
89	Atomically Thin Femtojoule Memristive Device. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703232	24	95
88	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
87	Graphene-Paper Pressure Sensor for Detecting Human Motions. <i>ACS Nano</i> , <b>2017</b> , 11, 8790-8795	16.7	381
86	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
85	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. <i>ACS Nano</i> , <b>2017</b> , 11, 7156-7163	16.7	75
84	Transport Properties and Device Prospects of Ultrathin Black Phosphorus on Hexagonal Boron Nitride. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 5163-5171	2.9	12
83	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
82	Low-symmetry two-dimensional materials for electronic and photonic applications. <i>Nano Today</i> , <b>2016</b> , 11, 763-777	17.9	85
81	A Reduced Graphene Oxide (rGO)-Ferroelectrics Hybrid Nanocomposite as High Efficient Visible-Light-Driven Photocatalyst. <i>ChemistrySelect</i> , <b>2016</b> , 1, 6020-6025	1.8	5
80	A Dynamically Reconfigurable Ambipolar Black Phosphorus Memory Device. <i>ACS Nano</i> , <b>2016</b> , 10, 10428-10435	10.7	72
79	Black Phosphorus Mid-Infrared Photodetectors with High Gain. <i>Nano Letters</i> , <b>2016</b> , 16, 4648-55	11.5	476
78	Fabrication techniques and applications of flexible graphene-based electronic devices. <i>Journal of Semiconductors</i> , <b>2016</b> , 37, 041001	2.3	17
77	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. <i>Advanced Materials</i> , <b>2016</b> , 28, 4991-7	24	217

76	A point acoustic device based on aluminum nanowires. <i>Nanoscale</i> , <b>2016</b> , 8, 5516-25	7.7	11
75	A self-powered organolead halide perovskite single crystal photodetector driven by a DVD-based triboelectric nanogenerator. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 630-636	7.1	75
74	In situ observation of electrical property of thin-layer black phosphorus based on dry transfer method. <i>Applied Physics Express</i> , <b>2016</b> , 9, 045202	2.4	3
73	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. <i>Nano Energy</i> , <b>2016</b> , 20, 48-56	17.1	35
72	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
71	A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	15
70	A novel thermal acoustic device based on porous graphene. <i>AIP Advances</i> , <b>2016</b> , 6, 015105	1.5	9
69	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. <i>Nano Research</i> , <b>2016</b> , 9, 1543-1560	10	136
68	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , <b>2016</b> , 10, 699-704	33.9	1206
67	Flexible, Highly Sensitive, and Wearable Pressure and Strain Sensors with Graphene Porous Network Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26458-26462	9.5	285
66	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e154-e154	10.3	46
65	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
64	Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets. <i>Scientific Reports</i> , <b>2015</b> , 5, 10582	4.9	23
63	A spectrally tunable all-graphene-based flexible field-effect light-emitting device. <i>Nature Communications</i> , <b>2015</b> , 6, 7767	17.4	97
62	A flexible ultrasound transducer array with micro-machined bulk PZT. <i>Sensors</i> , <b>2015</b> , 15, 2538-47	3.8	27
61	A discovery of an ultra-pure water detection method based on water mark. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 1450271	1.6	
60	Surface-modified piezoresistive nanocomposite flexible pressure sensors with high sensitivity and wide linearity. <i>Nanoscale</i> , <b>2015</b> , 7, 8636-44	7.7	67
59	Controllable thermal rectification realized in binary phase change composites. <i>Scientific Reports</i> , <b>2015</b> , 5, 8884	4.9	43

58	Graphene Dynamic Synapse with Modulatable Plasticity. <i>Nano Letters</i> , <b>2015</b> , 15, 8013-9	11.5	180
57	A record flexible piezoelectric KNN ultrafine-grained nanopowder-based nanogenerator. <i>AIP Advances</i> , <b>2015</b> , 5, 017102	1.5	17
56	Memory Devices: In Situ Tuning of Switching Window in a Gate-Controlled Bilayer Graphene-Electrode Resistive Memory Device (Adv. Mater. 47/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 7766-7766 <sup>1</sup>	24	1
55	K0.5Na0.5NbO3-based self-powered pressure sensor. <i>Tsinghua Science and Technology</i> , <b>2015</b> , 20, 264-269.4	3.4	4
54	Hydrodynamic Sensing Based on Surface-Modified Flexible Nanocomposite Film. <i>Chinese Physics Letters</i> , <b>2015</b> , 32, 114301	1.8	0
53	Flexible CNT-array double helices Strain Sensor with high stretchability for Motion Capture. <i>Scientific Reports</i> , <b>2015</b> , 5, 15554	4.9	43
52	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
51	Regulating the respiration of microbe: A bio-inspired high performance microbial supercapacitor with graphene based electrodes and its kinetic features. <i>Nano Energy</i> , <b>2015</b> , 15, 697-708	17.1	34
50	. <i>Tsinghua Science and Technology</i> , <b>2015</b> , 20, 270-276	3.4	5
49	A flexible, transparent and ultrathin single-layer graphene earphone. <i>RSC Advances</i> , <b>2015</b> , 5, 17366-17371.7	3.7	31
48	Wafer-scale integration of graphene-based electronic, optoelectronic and electroacoustic devices. <i>Scientific Reports</i> , <b>2014</b> , 4, 3598	4.9	84
47	Novel field-effect Schottky barrier transistors based on graphene-MoS2 heterojunctions. <i>Scientific Reports</i> , <b>2014</b> , 4, 5951	4.9	115
46	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. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 1221-1228	4.1	15
45	A micro-scale microbial supercapacitor <b>2014</b> ,		1
44	Graphene earphones: entertainment for both humans and animals. <i>ACS Nano</i> , <b>2014</b> , 8, 5883-90	16.7	85
43	Scalable fabrication of high-performance and flexible graphene strain sensors. <i>Nanoscale</i> , <b>2014</b> , 6, 699-705.7	7.5	287
42	Wafer-scale flexible graphene loudspeakers <b>2014</b> ,		3
41	A spring-connected nanogenerator based on ZnO nanoparticles and a multiwall carbon nanotube. <i>RSC Advances</i> , <b>2014</b> , 4, 2115-2118	3.7	13



40	Growth and Raman spectra of single-crystal trilayer graphene with different stacking orientations. <i>ACS Nano</i> , <b>2014</b> , 8, 10766-73	16.7	39
39	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
38	Large-area, transparent, and flexible infrared photodetector fabricated using P-N junctions formed by N-doping chemical vapor deposition grown graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 3702-8	11.5	163
37	Flexible, transparent single-layer graphene earphone <b>2014</b> ,		1
36	Large-scale fabrication of graphene-based electronic and MEMS devices <b>2014</b> ,		1
35	Flexible and large-area sound-emitting device using reduced graphene oxide <b>2013</b> ,		3
34	Scalable and direct growth of graphene micro ribbons on dielectric substrates. <i>Scientific Reports</i> , <b>2013</b> , 3, 1348	4.9	29
33	A small-signal generator based on a multi-layer graphene/molybdenum disulfide heterojunction. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 263506	3.4	6
32	A reduced graphene oxide sound-emitting device: a new use for Joule heating. <i>RSC Advances</i> , <b>2013</b> , 3, 17672	3.7	20
31	Flexible electrostatic nanogenerator using graphene oxide film. <i>Nanoscale</i> , <b>2013</b> , 5, 8951-7	7.7	70
30	A flexible piezoelectric micromachined ultrasound transducer. <i>RSC Advances</i> , <b>2013</b> , 3, 24900	3.7	13
29	Laser directed lithography of asymmetric graphene ribbons on a polydimethylsiloxane trench structure. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6825-30	3.6	6
28	A novel flexible capacitive touch pad based on graphene oxide film. <i>Nanoscale</i> , <b>2013</b> , 5, 890-4	7.7	27
27	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 108-115	35.4	134
26	A novel flexible nanogenerator made of ZnO nanoparticles and multiwall carbon nanotube. <i>Nanoscale</i> , <b>2013</b> , 5, 6117-23	7.7	110
25	Monitoring oxygen movement by Raman spectroscopy of resistive random access memory with a graphene-inserted electrode. <i>Nano Letters</i> , <b>2013</b> , 13, 651-7	11.5	106
24	An ultra-high element density pMUT array with low crosstalk for 3-D medical imaging. <i>Sensors</i> , <b>2013</b> , 13, 9624-34	3.8	26
23	Wafer-Scale Flexible Surface Acoustic Wave Devices Based on an AlN/Si Structure. <i>Chinese Physics Letters</i> , <b>2013</b> , 30, 077701	1.8	2

22	A Novel Fabrication Method for Flexible SOI Substrate Based on Trench Refilling with Polydimethylsiloxane. <i>Chinese Physics Letters</i> , <b>2013</b> , 30, 086201	1.8	3
21	Multi-layer graphene treated by O <sub>2</sub> plasma for transparent conductive electrode applications. <i>Materials Letters</i> , <b>2012</b> , 73, 187-189	3.3	11
20	Optimization of graphene/silicon heterojunction solar cells <b>2012</b> ,		3
19	Unipolar to ambipolar conversion in graphene field-effect transistors. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 253505	3.4	15
18	Static behavior of a graphene-based sound-emitting device. <i>Nanoscale</i> , <b>2012</b> , 4, 3345-9	7.7	25
17	Comparison of Photovoltaic Performance Enhancement in BiFeO <sub>3</sub> by Using Graphene and Carbon Nanotubes as Transparent Electrode <b>2012</b> ,		1
16	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO <sub>3</sub> and PEDOT-PSS. <i>Nanoscale</i> , <b>2012</b> , 4, 2130-3	7.7	69
15	Micromachined piezoelectric devices for acoustic applications <b>2012</b> ,		1
14	Single-layer graphene sound-emitting devices: experiments and modeling. <i>Nanoscale</i> , <b>2012</b> , 4, 2272-7	7.7	76
13	A novel solid-state thermal rectifier based on reduced graphene oxide. <i>Scientific Reports</i> , <b>2012</b> , 2, 523	4.9	137
12	Flexible graphite-on-paper piezoresistive sensors. <i>Sensors</i> , <b>2012</b> , 12, 6685-94	3.8	68
11	Bipolar and unipolar resistive switching effects in Al/DLC/W structure. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 429501	3	1
10	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> , <b>2012</b> , 111, 084501	2.5	27
9	Bipolar and unipolar resistive switching effects in an Al/DLC/W structure. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 365103	3	5
8	Electrode/oxide interface engineering by inserting single-layer graphene: Application for HfO <sub>x</sub> -based resistive random access memory <b>2012</b> ,		7
7	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO <sub>3</sub> /Pt heterojunction structure. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 132904	3.4	91
6	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 233505	3.4	68
5	Transparent, flexible, ultrathin sound source devices using Indium Tin oxide films. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 043503	3.4	45

4	Graphene-on-paper sound source devices. <i>ACS Nano</i> , <b>2011</b> , 5, 4878-85	16.7	164
3	Flexible, ultrathin, and transparent sound-emitting devices using silver nanowires film. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 253507	3-4	37
2	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-based organic, ultrathin, and transparent sound-emitting device. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 233503	3-4	23
1	Ultrathin Anion Conductors Based Memristor. <i>Advanced Electronic Materials</i> , 2100845	6.4	5