

# Ping-An Hu

## 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.

123 papers	6,745 citations	45 h-index	80 g-index
128 ext. papers	8,038 ext. citations	9.5 avg, IF	6.09 L-index

#	Paper	IF	Citations
123	High-Performance Broadband Photoelectrochemical Photodetectors Based on Ultrathin BiOS Nanosheets.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> , 14, 7175-7183	9.5	16
122	A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in HumanRobot Collaboration. <i>Advanced Intelligent Systems</i> , <b>2022</b> , 4, 2270011	6	0
121	Skin-inspired tactile sensor based on gradient pore structure enable broad range response and ultrahigh pressure resolution. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136446	14.7	4
120	Ultralow Power Optical Synapses Based on MoS Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104960	24	10
119	Charge Transfer at the Hetero-Interface of WSe <sub>2</sub> /InSe Induces Efficient Doping to Achieve Multi-Functional Lateral Homo-Junctions. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100584	6.4	1
118	Low Optical Writing Energy Multibit Optoelectronic Memory Based on SnS /h-BN/Graphene Heterostructure. <i>Small</i> , <b>2021</b> , 17, e2104459	11	5
117	Lowering the Contact Barriers of 2D Organic F CuPc Field-Effect Transistors by Introducing Van der Waals Contacts. <i>Small</i> , <b>2021</b> , 17, e2007739	11	2
116	High-Performance van der Waals Metal-Insulator-Semiconductor Photodetector Optimized with Valence Band Matching. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104359	15.6	15
115	Engineering inclined orientations of piezoelectric films for integrated acoustofluidics and lab-on-a-chip operated in liquid environments. <i>Lab on A Chip</i> , <b>2021</b> , 21, 254-271	7.2	9
114	Atomically Thin Hexagonal Boron Nitride and Its Heterostructures. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000769	24	31
113	Ultralow Power Optical Synapses Based on MoS <sub>2</sub> Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes (Adv. Mater. 52/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170409	24	2
112	High-Performance Devices Based on InSe-InGaSe Van der Waals Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24978-24983	9.5	6
111	Synthesis of High-Quality Multilayer Hexagonal Boron Nitride Films on Au Foils for Ultrahigh Rejection Ratio Solar-Blind Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28351-28359	9.5	12
110	The role of hybrid dielectric interfaces in improving the performance of multilayer InSe transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6701-6709	7.1	3
109	Ultrafast and Sensitive Self-Powered Photodetector Featuring Self-Limited Depletion Region and Fully Depleted Channel with van der Waals Contacts. <i>ACS Nano</i> , <b>2020</b> , 14, 9098-9106	16.7	57
108	Tunable electronic properties of multilayer InSe by alloy engineering for high performance self-powered photodetector. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 565, 239-244	9.3	5
107	A mixed-dimensional 1D Se-2D InSe van der Waals heterojunction for high responsivity self-powered photodetectors. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 564-572	10.8	43

106	MoC based Mott-Schottky electrocatalyst for boosting the hydrogen evolution reaction performance. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 407-416	5.8	16
105	Enhanced Piezoelectric Effect Derived from Grain Boundary in MoS Monolayers. <i>Nano Letters</i> , <b>2020</b> , 20, 201-207	11.5	35
104	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900975	6.4	19
103	Contact engineering high-performance ambipolar multilayer tellurium transistors. <i>Nanotechnology</i> , <b>2020</b> , 31, 115204	3.4	7
102	Lateral Monolayer MoSe -WSe p-n Heterojunctions with Giant Built-In Potentials. <i>Small</i> , <b>2020</b> , 16, e2002263	26.3	29
101	Monolayer hydrophilic MoS <sub>2</sub> with strong charge trapping for atomically thin neuromorphic vision systems. <i>Materials Horizons</i> , <b>2020</b> , 7, 3316-3324	14.4	10
100	Multilayer InSe-Te van der Waals Heterostructures with an Ultrahigh Rectification Ratio and Ultrasensitive Photoresponse. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37313-37319	9.5	20
99	Black reduced porous SnO <sub>2</sub> nanosheets for CO <sub>2</sub> electroreduction with high formate selectivity and low overpotential. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118134	21.8	67
98	Synthesis of Multilayer InSe <sub>0.82</sub> Te <sub>0.18</sub> alloy for high performance near-infrared photodetector. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152375	5.7	4
97	Performance Improvement of Multilayered SnS <sub>2</sub> Field Effect Transistors through Synergistic Effect of Vacancy Repairing and Electron Doping Introduced by EDTA. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2380-2388	4	12
96	CVD growth of large-scale hexagon-like shaped MoSe <sub>2</sub> monolayers with sawtooth edge. <i>Chemical Physics Letters</i> , <b>2019</b> , 733, 136663	2.5	2
95	Advances in designs and mechanisms of semiconducting metal oxide nanostructures for high-precision gas sensors operated at room temperature. <i>Materials Horizons</i> , <b>2019</b> , 6, 470-506	14.4	292
94	Robust Piezo-Phototronic Effect in Multilayer InSe for High-Performance Self-Powered Flexible Photodetectors. <i>ACS Nano</i> , <b>2019</b> , 13, 7291-7299	16.7	65
93	Iron-Doped Ni <sub>5</sub> P <sub>4</sub> Ultrathin Nanoporous Nanosheets for Water Splitting and On-Demand Hydrogen Release via NaBH <sub>4</sub> Hydrolysis. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 3091-3099	5.6	19
92	Enhanced photoresponse of monolayer MoS <sub>2</sub> through hybridization with carbon quantum dots as efficient photosensitizer. <i>2D Materials</i> , <b>2019</b> , 6, 035025	5.9	12
91	Synthesis of Superlattice InSe Nanosheets with Enhanced Electronic and Optoelectronic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18511-18516	9.5	10
90	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. <i>Science China Materials</i> , <b>2019</b> , 62, 1218-1225	7.1	9
89	Shape evolution of two dimensional hexagonal boron nitride single domains on Cu/Ni alloy and its applications in ultraviolet detection. <i>Nanotechnology</i> , <b>2019</b> , 30, 245706	3.4	17

88	Perspective of graphene-based electronic devices: Graphene synthesis and diverse applications. <i>APL Materials</i> , <b>2019</b> , 7, 020901	5.7	29
87	Design of carbon sources: starting point for chemical vapor deposition of graphene. <i>2D Materials</i> , <b>2019</b> , 6, 042003	5.9	6
86	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. <i>Nano Letters</i> , <b>2019</b> , 19, 5410-5416	11.5	74
85	Asymmetrically synchronous reduction and assembly of graphene oxide film on metal foil for moisture responsive actuator. <i>Nanotechnology</i> , <b>2019</b> , 30, 445601	3.4	3
84	Graphene nanoparticle strain sensors with modulated sensitivity through tunneling types transition. <i>Nanotechnology</i> , <b>2019</b> , 30, 425501	3.4	3
83	Synchronous Enhancement for Responsivity and Response Speed in InSe Photodetector Modulated by Piezoresistive Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47098-47105	9.5	15
82	Multiwall carbon nanotube encapsulated Co grown on vertically oriented graphene modified carbon cloth as bifunctional electrocatalysts for solid-state Zn-air battery. <i>Carbon</i> , <b>2019</b> , 144, 370-381	10.4	76
81	Poor crystalline MoS <sub>2</sub> with highly exposed active sites for the improved hydrogen evolution reaction performance. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 514-523	5.7	31
80	Mesocrystalline Ta <sub>2</sub> O <sub>5</sub> nanosheets supported PdPt nanoparticles for efficient photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8232-8242	6.7	19
79	Superstructure TaO mesocrystals derived from (NH) <sub>4</sub> TaOF mesocrystals with efficient photocatalytic activity. <i>Dalton Transactions</i> , <b>2018</b> , 47, 1948-1957	4.3	18
78	Roll-to-Roll Manufacturing of Robust Superhydrophobic Coating on Metallic Engineering Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2174-2184	9.5	29
77	Hollow Spherical Nanoshell Arrays of 2D Layered Semiconductor for High-Performance Photodetector Device. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705153	15.6	39
76	Interfacial Engineering for Fabricating High-Performance Field-Effect Transistors Based on 2D Materials. <i>Small Methods</i> , <b>2018</b> , 2, 1700384	12.8	38
75	Highly sensitive flexible three-axis tactile sensors based on the interface contact resistance of microstructured graphene. <i>Nanoscale</i> , <b>2018</b> , 10, 7387-7395	7.7	58
74	Nitrogen and sulfur co-doped porous carbon derived from bio-waste as a promising electrocatalyst for zinc-air battery. <i>Energy</i> , <b>2018</b> , 143, 43-55	7.9	79
73	Phase-Engineering-Driven Enhanced Electronic and Optoelectronic Performance of Multilayer InSe Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27584-27588	9.5	30
72	Kirigami-Inspired Highly Stretchable Nanoscale Devices Using Multidimensional Deformation of Monolayer MoS <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6063-6070	9.6	49
71	High-performance and flexible photodetectors based on chemical vapor deposition grown two-dimensional InSe nanosheets. <i>Nanotechnology</i> , <b>2018</b> , 29, 445205	3.4	34

70	Moiré Phonons in Twisted Bilayer MoS. <i>ACS Nano</i> , <b>2018</b> , 12, 8770-8780	16.7	85
69	A Dual-Band Multilayer InSe Self-Powered Photodetector with High Performance Induced by Surface Plasmon Resonance and Asymmetric Schottky Junction. <i>ACS Nano</i> , <b>2018</b> , 12, 8739-8747	16.7	120
68	Novel Hollow Graphene Flowers Synthesized by Cu-Assisted Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800347	4.6	4
67	Mesocrystalline Ti3+TiO2 hybridized g-C3N4 for efficient visible-light photocatalysis. <i>Carbon</i> , <b>2018</b> , 128, 21-30	10.4	87
66	Vertical MoSe-MoO p-n heterojunction and its application in optoelectronics. <i>Nanotechnology</i> , <b>2018</b> , 29, 045202	3.4	9
65	Synthesis of Two-Dimensional Alloy GaInSe Nanosheets for High-Performance Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43299-43304	9.5	10
64	Bifunctional hydrogen evolution and oxygen evolution catalysis using CoP-embedded N-doped nanoporous carbon synthesized via TEOS-assisted method. <i>Energy</i> , <b>2018</b> , 165, 537-548	7.9	14
63	Temperature-dependent growth of few layer EInSe and EIn2Se3 single crystals for optoelectronic device. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 125002	1.8	14
62	Two-Dimensional Nonlayered CuInSe2 Nanosheets for High-Performance Photodetectors. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 5414-5418	5.6	14
61	Graphene Oxide Film Based Moisture-driven Nanogenerator and Its Application as Self-powered Relative Humidity Sensor. <i>Chemistry Letters</i> , <b>2018</b> , 47, 853-856	1.7	4
60	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , <b>2018</b> , 120, 227601	1.4	170
59	Tuning electrochemical catalytic activity of defective 2D terrace MoSe2 heterogeneous catalyst via cobalt doping. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11357-11363	13	41
58	Defect engineered Ta2O5 nanorod: One-pot synthesis, visible-light driven hydrogen generation and mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 48-56	21.8	65
57	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1836-1840	7.8	27
56	Fast, multicolor photodetection with graphene-contacted p-GaSe/n-InSe van der Waals heterostructures. <i>Nanotechnology</i> , <b>2017</b> , 28, 27LT01	3.4	133
55	Non-planar vertical photodetectors based on free standing two-dimensional SnS nanosheets. <i>Nanoscale</i> , <b>2017</b> , 9, 9167-9174	7.7	46
54	In-Plane Mosaic Potential Growth of Large-Area 2D Layered Semiconductors MoS-MoSe Lateral Heterostructures and Photodetector Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1684-1691	9.5	63
53	TaOC chemical bond enhancing charge separation between Ta4+ doped Ta2O5 quantum dots and cotton-like g-C3N4. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 271-280	21.8	56

52	Efficiently Synergistic Hydrogen Evolution Realized by Trace Amount of Pt-Decorated Defect-Rich SnS Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37750-37759	9.5	54
51	Photoresponse Enhancement in Monolayer ReS Phototransistor Decorated with CdSe-CdS-ZnS Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39456-39463	9.5	19
50	Controlled growth of six-point stars MoS by chemical vapor deposition and its shape evolution mechanism. <i>Nanotechnology</i> , <b>2017</b> , 28, 395601	3.4	14
49	Vertically aligned two-dimensional SnS <sub>2</sub> nanosheets with a strong photon capturing capability for efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1989-1995	13	100
48	Effects of Organic Molecules with Different Structures and Absorption Bandwidth on Modulating Photoresponse of MoS <sub>2</sub> Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23362-70	9.5	44
47	Patterned Growth: Patterned Growth of P-Type MoS <sub>2</sub> Atomic Layers Using Sol <sup>1</sup> as Precursor (Adv. Funct. Mater. 35/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6495-6495	15.6	
46	Modulation of opto-electronic properties of InSe thin layers via phase transformation. <i>RSC Advances</i> , <b>2016</b> , 6, 70452-70459	3.7	14
45	Patterned Growth of P-Type MoS <sub>2</sub> Atomic Layers Using Sol <sup>1</sup> as Precursor. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6371-6379	15.6	26
44	Tunable electronic properties of graphene through controlling bonding configurations of doped nitrogen atoms. <i>Scientific Reports</i> , <b>2016</b> , 6, 28330	4.9	38
43	Controlled growth of vertical 3D MoS <sub>2</sub> (1-x)Se <sub>2x</sub> nanosheets for an efficient and stable hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18060-18066	13	61
42	Site-Selective Chlorination of Graphene through Laser-Induced In Situ Decomposition of AgCl Nanoparticles. <i>ChemNanoMat</i> , <b>2016</b> , 2, 515-519	3.5	3
41	Hierarchical Assembly of Tungsten Spheres and Epoxy Composites in Three-Dimensional Graphene Foam and Its Enhanced Acoustic Performance as a Backing Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18496-504	9.5	12
40	Role of Sulfitess in the Water Splitting Reaction. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 67-80	1.8	16
39	Fast growth of graphene on SiO <sub>2</sub> /Si substrates by atmospheric pressure chemical vapor deposition with floating metal catalysts. <i>Science China Chemistry</i> , <b>2016</b> , 59, 707-712	7.9	10
38	An efficient WSe <sub>2</sub> /Co <sub>0.85</sub> Se/graphene hybrid catalyst for electrochemical hydrogen evolution reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 51725-51731	3.7	46
37	Electrostatic Assembly Preparation of High-Toughness Zirconium Diboride-Based Ceramic Composites with Enhanced Thermal Shock Resistance Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11675-81	9.5	21
36	Sensitive Electronic-Skin Strain Sensor Array Based on the Patterned Two-Dimensional In <sub>2</sub> Se <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4278-4283	9.6	112
35	Vertical 2D MoO <sub>3</sub> /MoSe <sub>2</sub> Core-Shell Nanosheet Arrays as High-Performance Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8537-8544	15.6	134



34	3D Graphene Functionalized by Covalent Organic Framework Thin Film as Capacitive Electrode in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17837-43	9.5	83
33	Enhanced thermal shock resistance of ultra-high temperature ceramic by biomimetic surface modification. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2199-2206	13	12
32	Effective Synergistic Effect of Dipeptide-Polyoxometalate-Graphene Oxide Ternary Hybrid Materials on Peroxidase-like Mimics with Enhanced Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22036-45	9.5	77
31	Highly Stretchable and Conductive Core-shell Chemical Vapor Deposition Graphene Fibers and Their Applications in Safe Strain Sensors. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6969-6975	9.6	93
30	Chitosan assisted synthesis of 3D graphene@Au nanosheet composites: catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , <b>2015</b> , 5, 79456-79462	3.7	11
29	Graphene oxide-stimulated acoustic attenuating performance of tungsten based epoxy films. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10848-10855	7.1	8
28	Gate Modulation of Threshold Voltage Instability in Multilayer InSe Field Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26691-5	9.5	38
27	Performance improvement of multilayer InSe transistors with optimized metal contacts. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3653-8	3.6	92
26	3D graphene/ZnO nanorods composite networks as supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 620, 31-37	5.7	107
25	Growth and Etching Kinetics: Growth and Etching of Monolayer Hexagonal Boron Nitride (Adv. Mater. 33/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 4948-4948	24	2
24	Ternary SnS(2-x)Se(x) Alloys Nanosheets and Nanosheet Assemblies with Tunable Chemical Compositions and Band Gaps for Photodetector Applications. <i>Scientific Reports</i> , <b>2015</b> , 5, 17109	4.9	37
23	Growth and Etching of Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , <b>2015</b> , 27, 4858-64	24	75
22	Gate Tuning of High-Performance InSe-Based Photodetectors Using Graphene Electrodes. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1418-1423	8.1	137
21	Ultrahigh photo-responsivity and detectivity in multilayer InSe nanosheets phototransistors with broadband response. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7022-7028	7.1	162
20	Strong enhancement of photoresponsivity with shrinking the electrodes spacing in few layer GaSe photodetectors. <i>Scientific Reports</i> , <b>2015</b> , 5, 8130	4.9	91
19	Solid-State Reaction Synthesis of a InSe/CuInSe <sub>2</sub> Lateral p-n Heterojunction and Application in High Performance Optoelectronic Devices. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 983-989	9.6	45
18	Monolayer hexagonal boron nitride films with large domain size and clean interface for enhancing the mobility of graphene-based field-effect transistors. <i>Advanced Materials</i> , <b>2014</b> , 26, 1559-64	24	178
17	Synthesis of two-dimensional EGa <sub>2</sub> O <sub>3</sub> nanosheets for high-performance solar blind photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3254-3259	7.1	139

16	Back gated multilayer InSe transistors with enhanced carrier mobilities via the suppression of carrier scattering from a dielectric interface. <i>Advanced Materials</i> , <b>2014</b> , 26, 6587-93	24	331
15	Environmentally benign magnetic chitosan/Fe <sub>3</sub> O <sub>4</sub> composites as reductant and stabilizer for anchoring Au NPs and their catalytic reduction of 4-nitrophenol. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13471-13478	13	74
14	Low-Temperature Growth of Large-Area Heteroatom-Doped Graphene Film. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2460-2466	9.6	77
13	Highly sensitive phototransistors based on two-dimensional GaTe nanosheets with direct bandgap. <i>Nano Research</i> , <b>2014</b> , 7, 694-703	10	124
12	Sputtered ZnO film on aluminium foils for flexible ultrasonic transducers. <i>Ultrasonics</i> , <b>2014</b> , 54, 1991-8	3.5	17
11	Enhanced pyroelectric property in (1-x)(Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -xBa(Zr <sub>0.055</sub> Ti <sub>0.945</sub> )O <sub>3</sub> : Role of morphotropic phase boundary and ferroelectric-antiferroelectric phase transition. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 182906	3.4	59
10	Highly responsive ultrathin GaS nanosheet photodetectors on rigid and flexible substrates. <i>Nano Letters</i> , <b>2013</b> , 13, 1649-54	11.5	573
9	Fabrication of highly oriented reduced graphene oxide microbelts array for massive production of sensitive ammonia gas sensors. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 095031	2	19
8	Carbon nanomaterials: controlled growth and field-effect transistor biosensors. <i>Frontiers of Materials Science</i> , <b>2012</b> , 6, 26-46	2.5	13
7	Soft-lithographic processed soluble micropatterns of reduced graphene oxide for wafer-scale thin film transistors and gas sensors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 714-718		32
6	CVD growth of large area and uniform graphene on tilted copper foil for high performance flexible transparent conductive film. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18283		58
5	Synthesis of few-layer GaSe nanosheets for high performance photodetectors. <i>ACS Nano</i> , <b>2012</b> , 6, 5988-5997	24.7	658
4	Carbon nanostructure-based field-effect transistors for label-free chemical/biological sensors. <i>Sensors</i> , <b>2010</b> , 10, 5133-59	3.8	129
3	A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in Human-Robot Collaboration. <i>Advanced Intelligent Systems</i> , 2100213	6	1
2	Mixed-Dimensional InSe/Bi Heterojunction Nanostructures for Self-Powered Broadband Photodetectors. <i>ACS Applied Nano Materials</i> ,	5.6	0
1	Transparent and High-Absolute-Effectiveness Electromagnetic Interference Shielding Film Based on Single-Crystal Graphene. <i>Advanced Materials Technologies</i> , 2101465	6.8	1