## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Flexible UV–Vis–NIR Photodetector based on a Perovskite/Conjugatedâ€Polymer Composite. Advanced Materials, 2016, 28, 5969-5974.	21.0	329
2	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO <sub>2</sub> Sensors. ACS Applied Materials & Interfaces, 2016, 8, 35454-35463.	8.0	210
3	Bilayer of polyelectrolyte films for spontaneous power generation in air up to an integrated 1,000 V output. Nature Nanotechnology, 2021, 16, 811-819.	31.5	193
4	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. Energy and Environmental Science, 2013, 6, 108-115.	30.8	154
5	A lead-free two-dimensional perovskite for a high-performance flexible photoconductor and a light-stimulated synaptic device. Nanoscale, 2018, 10, 6837-6843.	5.6	146
6	Novel Field-Effect Schottky Barrier Transistors Based on Graphene-MoS2 Heterojunctions. Scientific Reports, 2014, 4, 5951.	3.3	134
7	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	14.9	132
8	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO <sub>2</sub> E-Textile Gas Sensor. ACS Sensors, 2019, 4, 2809-2818.	7.8	114
9	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. Scientific Reports, 2014, 4, 3598.	3.3	113
10	UV light irradiation enhanced gas sensor selectivity of NO2 and SO2 using rGO functionalized with hollow SnO2 nanofibers. Sensors and Actuators B: Chemical, 2019, 290, 443-452.	7.8	112
11	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO3/Pt heterojunction structure. Applied Physics Letters, 2011, 99, .	3.3	97
12	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. Scientific Reports, 2015, 5, 11662.	3.3	91
13	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. ACS Nano, 2020, 14, 2860-2868.	14.6	86
14	A Solutionâ€Processed Highâ€Performance Phototransistor based on a Perovskite Composite with Chemically Modified Graphenes. Advanced Materials, 2017, 29, 1606175.	21.0	80
15	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	3.3	76
16	Thickness Tunable Wedding-Cake-like MoS <sub>2</sub> Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
17	Sprayed, Scalable, Wearable, and Portable NO <sub>2</sub> Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 34485-34493.	8.0	74
18	Application of chemical vapor–deposited monolayer ReSe2 in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71

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19	Heterostructured graphene quantum dot/WSe2/Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
20	Programmable <scp>vanâ€derâ€Waals</scp> heterostructureâ€enabled optoelectronic synaptic floatingâ€gate transistors with ultraâ€low energy consumption. InformaÄnÃ-Materiály, 2022, 4, .	17.3	58
21	Enhanced dielectric and multiferroic properties of single-phase Y and Zr co-doped BiFeO3 ceramics. Journal of Applied Physics, 2013, 114, .	2.5	55
22	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. Nature Communications, 2020, 11, 3917.	12.8	55
23	2D perovskite microsheets for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5353-5358.	5.5	54
24	MoS <sub>2</sub> Field-Effect Transistors With Lead Zirconate-Titanate Ferroelectric Gating. IEEE Electron Device Letters, 2015, 36, 784-786.	3.9	53
25	All-Inorganic Perovskite Nanowires–InGaZnO Heterojunction for High-Performance Ultraviolet–Visible Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 7231-7238.	8.0	53
26	Novel Transfer Behaviors in 2D MoS <sub>2</sub> /WSe <sub>2</sub> Heterotransistor and Its Applications in Visibleâ€Near Infrared Photodetection. Advanced Electronic Materials, 2017, 3, 1600502.	5.1	51
27	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Evenâ€Layered PdSe <sub>2</sub> Ribbons. Small, 2019, 15, e1902789.	10.0	50
28	TiO <sub>2</sub> enhanced ultraviolet detection based on a graphene/Si Schottky diode. Journal of Materials Chemistry A, 2015, 3, 8133-8138.	10.3	46
29	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	3.3	45
30	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
31	Organic Dye-Sensitized CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Flexible Photodetector with Bulk Heterojunction Architectures. ACS Applied Materials & Interfaces, 2016, 8, 31289-31294.	8.0	43
32	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional β-InSe nanoflakes. Applied Physics Letters, 2019, 114, .	3.3	40
33	Mixedâ€Ðimensional Van der Waals Heterostructures Enabled Optoelectronic Synaptic Devices for Neuromorphic Applications. Advanced Functional Materials, 2021, 31, 2105625.	14.9	39
34	Temperature Control of P(VDF-TrFE) Copolymer Thin Films. Integrated Ferroelectrics, 2013, 141, 187-194.	0.7	36
35	Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. Scientific Reports, 2017, 7, 6751.	3.3	36
36	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	3.9	36

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37	Lateral multilayer/monolayer MoS2 heterojunction for high performance photodetector applications. Scientific Reports, 2017, 7, 4505.	3.3	35
38	Selfâ€Powered MoS <sub>2</sub> –PDPP3T Heterotransistorâ€Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
39	Resistive switching behavior in diamond-like carbon films grown by pulsed laser deposition for resistance switching random access memory application. Journal of Applied Physics, 2012, 111, 084501.	2.5	31
40	Grapheneâ€Based Devices for Thermal Energy Conversion and Utilization. Advanced Functional Materials, 2020, 30, 1903888.	14.9	30
41	High-performance single crystal CH3NH3PbI3 perovskite x-ray detector. Applied Physics Letters, 2021, 118, .	3.3	28
42	Optogeneticsâ€Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. Advanced Optical Materials, 2021, 9, 2002232.	7.3	28
43	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. ACS Nano, 2022, 16, 10199-10208.	14.6	25
44	Investigation of the improved performance in a graphene/polycrystalline BiFeO3/Pt photovoltaic heterojunction: Experiment, modeling, and application. Journal of Applied Physics, 2012, 112, .	2.5	23
45	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. Scientific Reports, 2018, 8, 5107.	3.3	21
46	Photomodulated Hysteresis Behaviors in Perovskite Phototransistors with Ultra-Low Operating Voltage. Journal of Physical Chemistry C, 2017, 121, 11665-11671.	3.1	20
47	Influence of low-dimension carbon-based electrodes on the performance of SnO <sub>2</sub> nanofiber gas sensors at room temperature. Nanotechnology, 2019, 30, 345503.	2.6	18
48	Directly integrated mixedâ€dimensional van der Waals graphene/perovskite heterojunction for fast photodetection. InformaÄnÄ-Materiály, 2022, 4, .	17.3	18
49	Unipolar to ambipolar conversion in graphene field-effect transistors. Applied Physics Letters, 2012, 101, .	3.3	17
50	Reduced Graphene Oxide for Room Temperature Ammonia (NH <sub>3</sub> ) Gas Sensor. Journal of Nanoscience and Nanotechnology, 2018, 18, 7927-7932.	0.9	17
51	WSe <sub>2</sub> /graphene heterojunction synaptic phototransistor with both electrically and optically tunable plasticity. 2D Materials, 2021, 8, 035034.	4.4	17
52	Out-of-plane and in-plane ferroelectricity of atom-thick two-dimensional InSe. Nanotechnology, 2021, 32, 385202.	2.6	15
53	Characteristics of Pt/BiFeO3/TiO2/Si capacitors with TiO2 layer formed by liquid-delivery metal organic chemical vapor deposition. Applied Physics Letters, 2010, 97, .	3.3	13
54	High-performance heterogeneous complementary inverters based on n-channel MoS2 and p-channel SWCNT transistors. Nano Research, 2017, 10, 276-283.	10.4	13

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55	Tuning the Structural and Optical Properties of Bismuth Titanate by Different Nd Substitution Content. Integrated Ferroelectrics, 2012, 133, 73-80.	0.7	12
56	Reconfigurable optical memory based on MoS <sub>2</sub> /QDs mixed-dimensional van der Waals heterostructure. 2D Materials, 2021, 8, 025021.	4.4	12
57	Optically stimulated synaptic transistor based on MoS <sub>2</sub> /quantum dots mixed-dimensional heterostructure with gate-tunable plasticity. Optics Letters, 2021, 46, 1748.	3.3	12
58	NO <sub>2</sub> -induced performance enhancement of PEDOT:PSS/Si hybrid solar cells with a high efficiency of 13.44%. Physical Chemistry Chemical Physics, 2016, 18, 7184-7189.	2.8	11
59	Ambipolar/unipolar conversion in graphene transistors by surface doping. Applied Physics Letters, 2013, 103, 193502.	3.3	10
60	Poly (ethylene imine)-modulated transport behaviors of graphene field effect transistors with double Dirac points. Journal of Applied Physics, 2017, 121, .	2.5	10
61	Highly Sensitive, Selective, Flexible and Scalable Room-Temperature NO2 Gas Sensor Based on Hollow SnO2/ZnO Nanofibers. Molecules, 2021, 26, 6475.	3.8	9
62	Threshold voltage control of carbon nanotube-based synaptic transistors via chemical doping for plasticity modulation and symmetry improvement. Carbon, 2021, 184, 295-302.	10.3	7
63	Fabrication and Properties of \$hbox{Pt}/hbox{Bi}_{3.15}hbox{Nd}_{0.85} hbox{Ti}_{3}hbox{O}_{12}/reakhbox{HfO}_{2}/hbox{Si}\$ Structure for Ferroelectric DRAM (FEDRAM) FET. IEEE Electron Device Letters, 2009, 30, 463-465.	3.9	6
64	Comparative Study on Structural and Ferroelectric Properties of Dual-Site Rare-Earth Ions Substituted Multiferroelectric BiFeO <sub>3</sub> . Integrated Ferroelectrics, 2012, 132, 30-38.	0.7	6
65	Temperature dependence of optical and structural properties of ferroelectric B3.15Nd0.85Ti3O12 thin film derived by sol–gel process. Journal of Sol-Gel Science and Technology, 2012, 61, 236-242.	2.4	6
66	A small-signal generator based on a multi-layer graphene/molybdenum disulfide heterojunction. Applied Physics Letters, 2013, 103, .	3.3	6
67	Controllable Hysteresis and Threshold Voltage of Single-Walled Carbon Nano-tube Transistors with Ferroelectric Polymer Top-Gate Insulators. Scientific Reports, 2016, 6, 23090.	3.3	5
68	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/BiFeO <sub>3</sub> /Pt Heterostructure. Integrated Ferroelectrics, 2012, 134, 58-64.	0.7	4
69	Optimization of graphene/silicon heterojunction solar cells. , 2012, , .		4
70	Flexible and large-area sound-emitting device using reduced graphene oxide. , 2013, , .		4
71	Sucrose-templated nanoporous BiFeO <sub>3</sub> for promising magnetically recoverable multifunctional environment-purifying applications: adsorption and photocatalysis. RSC Advances, 2016, 6, 67550-67555.	3.6	4
72	The Effect of Thin Film Fabrication Techniques on the Performance of rGO Based NO2 Gas Sensors at Room Temperature. Chemosensors, 2022, 10, 119.	3.6	4

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73	Withdrawal of "Fabrication and Properties of <formula formulatype="inline"> <tex notation="TeX">\$ hbox{Pt}/hbox{Bi}_{3.15}hbox{Nd}_{0.85}hbox{Ti}_{3}hbox{O}_{12}/hbox{HfO}_{2}/hbox{Si}\$</tex> </formula> Structure for Ferroelectric DRAM (FEDRAM) FET". IEEE Electron Device Letters, 2009, 30, 1111-1111.	3.9	3
74	Wafer-scale flexible graphene loudspeakers. , 2014, , .		3
75	Anomalous heavy doping in chemical-vapor-deposited titanium trisulfide nanostructures. Physical Review Materials, 2021, 5, .	2.4	3
76	FABRICATION AND PROPERTIES OF METAL-PZT-METAL CAPACITORS BY LIQUID DELIVERY MOCVD. Integrated Ferroelectrics, 2008, 100, 114-122.	0.7	2
77	PROTON IRRADIATION INFLUENCE ON THE MAGNETIC PROPERTIES OF GMR-SVs. Modern Physics Letters B, 2014, 28, 1450022.	1.9	2
78	Adsorption of NO <sub>2</sub> by hydrazine hydrate-reduced graphene oxide. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 118102.	0.5	2
79	Wafer-scale flexible graphene strain sensors. , 2013, , .		1
80	Flexible nitrogen dioxide gas sensor based on reduced graphene oxide sensing material using silver nanowire electrode. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 058101.	0.5	1
81	Anisotropic electrical properties of aligned PtSe2 nanoribbon arrays grown by a pre-patterned selective selenization process. Nano Research, 0, , 1.	10.4	1
82	Cs <sub>2</sub> AgBiBr <sub>6</sub> -Tellurium heterojunction-based high-performance X-ray detectors. , 2022, , .		1
83	OPTICAL CHARACTERIZATION OF Sr1â^'xBaxBi4Ti4O15 GRADED THIN FILMS. Integrated Ferroelectrics, 2008, 98, 128-135.	0.7	0
84	Buffer layer dependence of B <inf>3.15</inf> Nd <inf>0.85</inf> Ti <inf>3</inf> O <inf>12</inf> (BNdT) based MFIS capacitor for FeFET application. , 2008, , .		0
85	ZnO nanorod array based optoelectronic device with graphene as transparent electrode. , 2012, , .		0
86	Multilayer graphene growth by a metal-catalyzed crystallization of diamond-like carbon. , 2012, , .		0
87	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/ BiFeO <sub>3</sub> /Pt Heterostructure. Integrated Ferroelectrics, 2012, 132, 53-60.	0.7	0
88	Novel flexible nanogenerators. , 2014, , .		0
89	Transparent pentacene organic thin film transistors with polyimide dielectrics. , 2014, , .		0
90	Formadelyde-sensing properties of reduced graphene oxide by layer-by-layer self-assemble method. , 2014, , .		0

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91	Tunable transfer behaviors of single-layer WSe2 field effect transistors by hydrazine. , 2016, , .		0
92	Thermal Energy Conversion: Grapheneâ€Based Devices for Thermal Energy Conversion and Utilization (Adv. Funct. Mater. 8/2020). Advanced Functional Materials, 2020, 30, 2070052.	14.9	0
93	Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate. , 2021, , .		0