

Dan Xie

List of Publications by Year in descending order

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93
papers

3,705
citations

109321

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133252

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docs citations

94
times ranked

5784
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Thin Film Fabrication Techniques on the Performance of rGO Based NO ₂ Gas Sensors at Room Temperature. Chemosensors, 2022, 10, 119.	3.6	4
2	Programmable van der Waals heterostructure-enabled optoelectronic synaptic floating-gate transistors with ultra-low energy consumption. Informa Mater, 2022, 4, .	17.3	58
3	Wafer-Scale Photolithography-Pixeled Pb-Free Perovskite X-ray Detectors. ACS Nano, 2022, 16, 10199-10208.	14.6	25
4	Cs ₂ AgBiBr ₆ -Tellurium heterojunction-based high-performance X-ray detectors. , 2022, , .		1
5	Directly integrated mixed-dimensional van der Waals graphene/perovskite heterojunction for fast photodetection. Informa Mater, 2022, 4, .	17.3	18
6	Reconfigurable optical memory based on MoS ₂ /QDs mixed-dimensional van der Waals heterostructure. 2D Materials, 2021, 8, 025021.	4.4	12
7	High-performance single crystal CH ₃ NH ₃ PbI ₃ perovskite x-ray detector. Applied Physics Letters, 2021, 118, .	3.3	28
8	Optically stimulated synaptic transistor based on MoS ₂ /quantum dots mixed-dimensional heterostructure with gate-tunable plasticity. Optics Letters, 2021, 46, 1748.	3.3	12
9	Optogenetics-Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. Advanced Optical Materials, 2021, 9, 2002232.	7.3	28
10	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
11	Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate. , 2021, , .		0
12	WSe ₂ /graphene heterojunction synaptic phototransistor with both electrically and optically tunable plasticity. 2D Materials, 2021, 8, 035034.	4.4	17
13	Out-of-plane and in-plane ferroelectricity of atom-thick two-dimensional InSe. Nanotechnology, 2021, 32, 385202.	2.6	15
14	Mixed-Dimensional Van der Waals Heterostructures Enabled Optoelectronic Synaptic Devices for Neuromorphic Applications. Advanced Functional Materials, 2021, 31, 2105625.	14.9	39
15	Anomalous heavy doping in chemical-vapor-deposited titanium trisulfide nanostructures. Physical Review Materials, 2021, 5, .	2.4	3
16	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
17	Highly Sensitive, Selective, Flexible and Scalable Room-Temperature NO ₂ Gas Sensor Based on Hollow SnO ₂ /ZnO Nanofibers. Molecules, 2021, 26, 6475.	3.8	9
18	Graphene-Based Devices for Thermal Energy Conversion and Utilization. Advanced Functional Materials, 2020, 30, 1903888.	14.9	30

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19	High-Quality Single Crystal Perovskite for Highly Sensitive X-Ray Detector. IEEE Electron Device Letters, 2020, 41, 256-259.	3.9	36
20	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. Nature Communications, 2020, 11, 3917.	12.8	55
21	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
22	Ultrafast Photodetector by Integrating Perovskite Directly on Silicon Wafer. ACS Nano, 2020, 14, 2860-2868.	14.6	86
23	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
24	Self-Powered MoS ₂ -PDPP3T Heterotransistor-Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
25	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
26	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Even-Layered PdSe ₂ Ribbons. Small, 2019, 15, e1902789.	10.0	50
27	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO ₂ E-Textile Gas Sensor. ACS Sensors, 2019, 4, 2809-2818.	7.8	114
28	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional In_2Se_3 nanoflakes. Applied Physics Letters, 2019, 114, .	3.3	40
29	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	14.9	132
30	Influence of low-dimension carbon-based electrodes on the performance of SnO ₂ nanofiber gas sensors at room temperature. Nanotechnology, 2019, 30, 345503.	2.6	18
31	2D perovskite microsheets for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5353-5358.	5.5	54
32	UV light irradiation enhanced gas sensor selectivity of NO ₂ and SO ₂ using rGO functionalized with hollow SnO ₂ nanofibers. Sensors and Actuators B: Chemical, 2019, 290, 443-452.	7.8	112
33	Thickness Tunable Wedding-Cake-like MoS ₂ Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
34	Adsorption of NO ₂ by hydrazine hydrate-reduced graphene oxide. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 118102.	0.5	2
35	All-Inorganic Perovskite Nanowires-InGaZnO Heterojunction for High-Performance Ultraviolet-Visible Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 7231-7238.	8.0	53
36	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

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37	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. Scientific Reports, 2018, 8, 5107.	3.3	21
38	Application of chemical vapor-deposited monolayer ReSe ₂ in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71
39	Heterostructured graphene quantum dot/WSe ₂ /Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
40	Reduced Graphene Oxide for Room Temperature Ammonia (NH ₃) Gas Sensor. Journal of Nanoscience and Nanotechnology, 2018, 18, 7927-7932.	0.9	17
41	Sprayed, Scalable, Wearable, and Portable NO ₂ Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 34485-34493.	8.0	74
42	Photomodulated Hysteresis Behaviors in Perovskite Phototransistors with Ultra-Low Operating Voltage. Journal of Physical Chemistry C, 2017, 121, 11665-11671.	3.1	20
43	A Solution-Processed High-Performance Phototransistor based on a Perovskite Composite with Chemically Modified Graphenes. Advanced Materials, 2017, 29, 1606175.	21.0	80
44	Poly (ethylene imine)-modulated transport behaviors of graphene field effect transistors with double Dirac points. Journal of Applied Physics, 2017, 121, .	2.5	10
45	Novel Transfer Behaviors in 2D MoS ₂ /WSe ₂ Heterotransistor and Its Applications in Visible-Near Infrared Photodetection. Advanced Electronic Materials, 2017, 3, 1600502.	5.1	51
46	Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. Scientific Reports, 2017, 7, 6751.	3.3	36
47	Lateral multilayer/monolayer MoS ₂ heterojunction for high performance photodetector applications. Scientific Reports, 2017, 7, 4505.	3.3	35
48	High-performance heterogeneous complementary inverters based on n-channel MoS ₂ and p-channel SWCNT transistors. Nano Research, 2017, 10, 276-283.	10.4	13
49	A Flexible UV-Vis-NIR Photodetector based on a Perovskite/Conjugated-Polymer Composite. Advanced Materials, 2016, 28, 5969-5974.	21.0	329
50	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO ₂ Sensors. ACS Applied Materials & Interfaces, 2016, 8, 35454-35463.	8.0	210
51	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
52	Organic Dye-Sensitized CH ₃ NH ₃ PbI ₃ Hybrid Flexible Photodetector with Bulk Heterojunction Architectures. ACS Applied Materials & Interfaces, 2016, 8, 31289-31294.	8.0	43
53	Tunable transfer behaviors of single-layer WSe ₂ field effect transistors by hydrazine. , 2016, , .		0
54	Sucrose-templated nanoporous BiFeO ₃ for promising magnetically recoverable multifunctional environment-purifying applications: adsorption and photocatalysis. RSC Advances, 2016, 6, 67550-67555.	3.6	4

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55	NO ₂ -induced performance enhancement of PEDOT:PSS/Si hybrid solar cells with a high efficiency of 13.44%. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7184-7189.	2.8	11
56	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. <i>Scientific Reports</i> , 2015, 5, 11662.	3.3	91
57	TiO ₂ enhanced ultraviolet detection based on a graphene/Si Schottky diode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8133-8138.	10.3	46
58	MoS ₂ Field-Effect Transistors With Lead Zirconate-Titanate Ferroelectric Gating. <i>IEEE Electron Device Letters</i> , 2015, 36, 784-786.	3.9	53
59	PROTON IRRADIATION INFLUENCE ON THE MAGNETIC PROPERTIES OF GMR-SVs. <i>Modern Physics Letters B</i> , 2014, 28, 1450022.	1.9	2
60	Novel flexible nanogenerators. , 2014, , .		0
61	Transparent pentacene organic thin film transistors with polyimide dielectrics. , 2014, , .		0
62	Wafer-scale flexible graphene loudspeakers. , 2014, , .		3
63	Formaldehyde-sensing properties of reduced graphene oxide by layer-by-layer self-assemble method. , 2014, , .		0
64	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. <i>Scientific Reports</i> , 2014, 4, 3598.	3.3	113
65	Novel Field-Effect Schottky Barrier Transistors Based on Graphene-MoS ₂ Heterojunctions. <i>Scientific Reports</i> , 2014, 4, 5951.	3.3	134
66	Flexible and large-area sound-emitting device using reduced graphene oxide. , 2013, , .		4
67	A small-signal generator based on a multi-layer graphene/molybdenum disulfide heterojunction. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	6
68	Temperature Control of P(VDF-TrFE) Copolymer Thin Films. <i>Integrated Ferroelectrics</i> , 2013, 141, 187-194.	0.7	36
69	Wafer-scale flexible graphene strain sensors. , 2013, , .		1
70	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
71	Flexible graphene woven fabrics for touch sensing. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	45
72	Ambipolar/unipolar conversion in graphene transistors by surface doping. <i>Applied Physics Letters</i> , 2013, 103, 193502.	3.3	10

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73	Enhanced dielectric and multiferroic properties of single-phase Y and Zr co-doped BiFeO ₃ ceramics. Journal of Applied Physics, 2013, 114, .	2.5	55
74	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
75	Tuning the Structural and Optical Properties of Bismuth Titanate by Different Nd Substitution Content. Integrated Ferroelectrics, 2012, 133, 73-80.	0.7	12
76	ZnO nanorod array based optoelectronic device with graphene as transparent electrode. , 2012, , .		0
77	Investigation of the improved performance in a graphene/polycrystalline BiFeO ₃ /Pt photovoltaic heterojunction: Experiment, modeling, and application. Journal of Applied Physics, 2012, 112, .	2.5	23
78	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/BiFeO ₃ /Pt Heterostructure. Integrated Ferroelectrics, 2012, 134, 58-64.	0.7	4
79	Optimization of graphene/silicon heterojunction solar cells. , 2012, , .		4
80	Multilayer graphene growth by a metal-catalyzed crystallization of diamond-like carbon. , 2012, , .		0
81	Comparative Study on Structural and Ferroelectric Properties of Dual-Site Rare-Earth Ions Substituted Multiferroelectric BiFeO ₃ . Integrated Ferroelectrics, 2012, 132, 30-38.	0.7	6
82	Unipolar to ambipolar conversion in graphene field-effect transistors. Applied Physics Letters, 2012, 101, .	3.3	17
83	Light-Induced Modulation in Resistance Switching of Carbon Nanotube/ BiFeO ₃ /Pt Heterostructure. Integrated Ferroelectrics, 2012, 132, 53-60.	0.7	0
84	Temperature dependence of optical and structural properties of ferroelectric B _{3.15} Nd _{0.85} Ti ₃ O ₁₂ thin film derived by sol-gel process. Journal of Sol-Gel Science and Technology, 2012, 61, 236-242.	2.4	6
85	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO ₃ /Pt heterojunction structure. Applied Physics Letters, 2011, 99, .	3.3	97
86	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	3.3	76
87	Characteristics of Pt/BiFeO ₃ /TiO ₂ /Si capacitors with TiO ₂ layer formed by liquid-delivery metal organic chemical vapor deposition. Applied Physics Letters, 2010, 97, .	3.3	13
88	Fabrication and Properties of $\text{Pt}/\text{Bi}_{0.15}\text{Nd}_{0.85}\text{Ti}_3\text{O}_{12}/\text{HfO}_2/\text{Si}$ Structure for Ferroelectric DRAM (FEDRAM) FET. IEEE Electron Device Letters, 2009, 30, 463-465.	3.9	6
89	Withdrawal of "Fabrication and Properties of $\text{Pt}/\text{Bi}_{0.15}\text{Nd}_{0.85}\text{Ti}_3\text{O}_{12}/\text{HfO}_2/\text{Si}$ Structure for Ferroelectric DRAM (FEDRAM) FET". IEEE Electron Device Letters, 2009, 30, 1111-1111.	3.9	3
90	OPTICAL CHARACTERIZATION OF Sr _{1-x} BaxBi ₄ Ti ₄ O ₁₅ GRADED THIN FILMS. Integrated Ferroelectrics, 2008, 98, 128-135.	0.7	0

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91	FABRICATION AND PROPERTIES OF METAL-PZT-METAL CAPACITORS BY LIQUID DELIVERY MOCVD. Integrated Ferroelectrics, 2008, 100, 114-122.	0.7	2
92	Buffer layer dependence of $B_{3.15}Nd_{0.85}Ti_3O_{12}$ (BNdT) based MFIS capacitor for FeFET application. , 2008, , .		0
93	Anisotropic electrical properties of aligned PtSe ₂ nanoribbon arrays grown by a pre-patterned selective selenization process. Nano Research, 0, , 1.	10.4	1