Jinbo Pang

List of Publications by Year in Descending Order

61 papers	3,053 citations	27 h-index	55 g-index
70 ext. papers	4,026 ext. citations	9.4 avg, IF	5.75 L-index

#	Paper	IF	Citations
61	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. *Materials Advances*, **2022**, 3, 1497-1505	3.3	5
60	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene.. *Nanotechnology*, **2022**,	3.4	5
59	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless-Localized Electrical Signals Driven by Electromagnetic Induction.. *Advanced Science*, **2022**, e2104424	13.6	4
58	Applications of nanogenerators for biomedical engineering and healthcare systems. *Informa Materiy*, **2022**, 4,	23.1	13
57	Enhanced charge carrier transport via efficient grain conduction mode for Sb2Se3 solar cell applications. *Applied Surface Science*, **2022**, 591, 153169	6.7	3
56	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. *Informa Materiy*, **2021**, 3, 1455	23.1	7
55	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. *ACS Sensors*, **2021**, 6, 3841-3881	9.2	7
54	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. *Advanced Materials Technologies*, **2021**, 6, 2000744	6.8	16
53	Substrate dependence on (Sb4Se6)n ribbon orientations of antimony selenide thin films: Morphology, carrier transport and photovoltaic performance. *Journal of Alloys and Compounds*, **2021**, 862, 158703	5.7	19
52	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. *Nano-Micro Letters*, **2021**, 13, 143	19.5	18
51	Micro-Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. *Small*, **2021**, 17, e2100804	11	18
50	Integrated energy storage system based on triboelectric nanogenerator in electronic devices. *Frontiers of Chemical Science and Engineering*, **2021**, 15, 238-250	4.5	54
49	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. *Solar Rrl*, **2021**, 5, 2000800	7.1	29
48	Applications of Carbon Nanotubes in the Internet of Things Era. *Nano-Micro Letters*, **2021**, 13, 191	19.5	8
47	Large area uniform PtSx synthesis on sapphire substrate for performance improved photodetectors. *Applied Materials Today*, **2021**, 25, 101176	6.6	4
46	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. *Light: Science and Applications*, **2020**, 9, 197	16.7	25
45	Low Lattice Mismatch InSe Se Vertical Van der Waals Heterostructure for High-performance Transistors via Strong Fermi-Level Depinning. *Small Methods*, **2020**, 4, 2000238	12.8	11

44	Construction of High Field-Effect Mobility Multilayer MoS2 Field-Effect Transistors with Excellent Stability through Interface Engineering. *ACS Applied Electronic Materials*, **2020**, 2, 2132-2140	4	14
43	Unsymmetrical Alveolate PMMA/MWCNT Film as a Piezoresistive E-Skin with Four-Dimensional Resolution and Application for Detecting Motion Direction and Airflow Rate. *ACS Applied Materials & Interfaces*, **2020**, 12, 30896-30904	9.5	15
42	Threshold decrease and output-power improvement in dual-loss Q-switched laser based on a few-layer WTe2 saturable absorber. *Applied Physics Express*, **2020**, 13, 052004	2.4	3
41	Assembling Sn3O4 nanostructures on a hydrophobic PVDF film through metal-F coordination to construct a piezotronic effect-enhanced Sn3O4/PVDF hybrid photocatalyst. *Nano Energy*, **2020**, 72, 104688	17.1	24
40	Energy Band Alignment in Molybdenum Oxide/Cu(In,Ga)Se2 Interface for High-Efficiency Ultrathin Cu(In,Ga)Se2 Solar Cells from Low-Temperature Growth. *ACS Applied Energy Materials*, **2020**, 3, 3408-3414	6.1	10
39	WSe2 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. *InformaMaterily*, **2020**, 2, 656-697	23.1	49
38	A thermally flexible and multi-site tactile sensor for remote 3D dynamic sensing imaging. *Frontiers of Chemical Science and Engineering*, **2020**, 14, 1039-1051	4.5	41
37	Ultrathin microcrystalline hydrogenated Si/Ge alloyed tandem solar cells towards full solar spectrum conversion. *Frontiers of Chemical Science and Engineering*, **2020**, 14, 997-1005	4.5	20
36	An active and passive dual-loss Q-switched intracavity OPO based on few-layer WS2 saturable absorber. *Optical Materials*, **2020**, 100, 109700	3.3	2
35	Research Progress and Prospect of Triboelectric Nanogenerators as Self-Powered Human Body Sensors. *ACS Applied Electronic Materials*, **2020**, 2, 863-878	4	45
34	Ultrasensitive Label-free MiRNA Sensing Based on a Flexible Graphene Field-Effect Transistor without Functionalization. *ACS Applied Electronic Materials*, **2020**, 2, 1090-1098	4	32
33	Rotational design of charge carrier transport layers for optimal antimony trisulfide solar cells and its integration in tandem devices. *Solar Energy Materials and Solar Cells*, **2020**, 206, 110279	6.4	62
32	Hybrid genetic algorithm method for efficient and robust evaluation of remaining useful life of supercapacitors. *Applied Energy*, **2020**, 260, 114169	10.7	82
31	Experimental optimization and dynamics solution of active-passive Q-switched intracavity optical parametric oscillator based on EO modulator and layered-WSe2 SA. *Infrared Physics and Technology*, **2020**, 111, 103525	2.7	3
30	Fabrication of a uniform Au nanodot array/monolayer graphene hybrid structure for high-performance surface-enhanced Raman spectroscopy. *Journal of Materials Science*, **2020**, 55, 591-602	4.3	12
29	Remaining useful life prediction for supercapacitor based on long short-term memory neural network. *Journal of Power Sources*, **2019**, 440, 227149	8.9	104
28	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. *ACS Nano*, **2019**, 13, 978-995	16.7	42
27	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. *Nano Energy*, **2019**, 62, 338-347	17.1	66

26	Towards high efficiency inverted Sb2Se3 thin film solar cells. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109945	6.4	77
25	Graphene-Activated Optoplasmonic Nanomembrane Cavities for Photodegradation Detection. *ACS Applied Materials & Interfaces*, **2019**, 11, 15891-15897	9.5	25
24	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. *Nano Energy*, **2019**, 61, 18-26	17.1	79
23	MnSe2/Se Composite Nanobelts as an Improved Performance Anode for Lithium Storage. *International Journal of Electrochemical Science*, **2019**, 6000-6008	2.2	8
22	Experimental and dynamical study of a dual Q-switched intracavity OPO based on few-layer MoSe SA. *Optics Express*, **2019**, 27, 36474-36486	3.3	10
21	Applications of 2D MXenes in energy conversion and storage systems. *Chemical Society Reviews*, **2019**, 48, 72-133	58.5	878
20	A free-standing superhydrophobic film for highly efficient removal of water from turbine oil. *Frontiers of Chemical Science and Engineering*, **2019**, 13, 393-399	4.5	15
19	Effect of Milling and Annealing on Carbon-Silver System. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 2770-2774	1.3	6
18	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. *Nano Structures Nano Objects*, **2018**, 16, 38-44	5.6	17
17	Boosting the Photoluminescence of Monolayer MoS2 on High-Density Nanodimer Arrays with Sub-10 nm Gap. *Advanced Optical Materials*, **2018**, 6, 1700984	8.1	58
16	Synthesis of hydrophobic carbon nanotubes/reduced graphene oxide composite films by flash light irradiation. *Frontiers of Chemical Science and Engineering*, **2018**, 12, 376-382	4.5	119
15	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. *Advanced Energy Materials*, **2018**, 8, 1702093	21.8	272
14	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO by Chemical Vapor Deposition. *ACS Nano*, **2017**, 11, 1946-1956	16.7	87
13	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. *Synthetic Metals*, **2017**, 234, 53-85	3.6	103
12	CVD growth of 1D and 2D sp2 carbon nanomaterials. *Journal of Materials Science*, **2016**, 51, 640-667	4.3	59
11	Graphene-Like ZnO: A Mini Review. *Crystals*, **2016**, 6, 100	2.3	64
10	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. *RSC Advances*, **2015**, 5, 60884-60891	3.7	27
9	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. *Chemistry of Materials*, **2015**, 27, 5964-5973	9.6	27

List of Publications

8	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 13363-13368	3.8	52
7	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. *Chemistry of Materials*, **2013**, 25, 4861-4866	9.6	52
6	Preparation and Characteristics of MoSe2 Interlayer in Bifacial Cu(In,Ga)Se2 Solar Cells. *Physics Procedia*, **2012**, 32, 372-378		36
5	Effect of Na on lower open circuit voltage of flexible CIGS thin-film solar cells prepared by the low-temperature process. *Physica Scripta*, **2012**, 85, 055806	2.6	27
4	Accurate Line Detection by Adjusting Hough Transform Threshold Adaptively **2010**,		2
3	Effect of substrate temperature on the structural and electrical properties of CIGS films based on the one-stage co-evaporation process. *Semiconductor Science and Technology*, **2010**, 25, 055007	1.8	52
2	Emerging Internet of Things driven carbon nanotubes-based devices. *Nano Research*,1	10	5
1	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. *ACS Energy Letters*,78-96	20.1	12