

Jinbo Pang

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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.

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	Applications of 2D MXenes in energy conversion and storage systems. <i>Chemical Society Reviews</i> , 2019 , 48, 72-133	58.5	878
60	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1702093	21.8	272
59	Synthesis of hydrophobic carbon nanotubes/reduced graphene oxide composite films by flash light irradiation. <i>Frontiers of Chemical Science and Engineering</i> , 2018 , 12, 376-382	4.5	119
58	Remaining useful life prediction for supercapacitor based on long short-term memory neural network. <i>Journal of Power Sources</i> , 2019 , 440, 227149	8.9	104
57	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. <i>Synthetic Metals</i> , 2017 , 234, 53-85	3.6	103
56	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO by Chemical Vapor Deposition. <i>ACS Nano</i> , 2017 , 11, 1946-1956	16.7	87
55	Hybrid genetic algorithm method for efficient and robust evaluation of remaining useful life of supercapacitors. <i>Applied Energy</i> , 2020 , 260, 114169	10.7	82
54	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. <i>Nano Energy</i> , 2019 , 61, 18-26	17.1	79
53	Towards high efficiency inverted Sb ₂ Se ₃ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109945	6.4	77
52	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. <i>Nano Energy</i> , 2019 , 62, 338-347	17.1	66
51	Graphene-Like ZnO: A Mini Review. <i>Crystals</i> , 2016 , 6, 100	2.3	64
50	Rotational design of charge carrier transport layers for optimal antimony trisulfide solar cells and its integration in tandem devices. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110279	6.4	62
49	CVD growth of 1D and 2D sp ² carbon nanomaterials. <i>Journal of Materials Science</i> , 2016 , 51, 640-667	4.3	59
48	Boosting the Photoluminescence of Monolayer MoS ₂ on High-Density Nanodimer Arrays with Sub-10 nm Gap. <i>Advanced Optical Materials</i> , 2018 , 6, 1700984	8.1	58
47	Integrated energy storage system based on triboelectric nanogenerator in electronic devices. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 238-250	4.5	54
46	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. <i>Chemistry of Materials</i> , 2013 , 25, 4861-4866	9.6	52
45	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13363-13368	3.8	52

44	Effect of substrate temperature on the structural and electrical properties of CIGS films based on the one-stage co-evaporation process. <i>Semiconductor Science and Technology</i> , 2010 , 25, 055007	1.8	52
43	WSe ₂ 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. <i>Information Materials</i> , 2020 , 2, 656-697	23.1	49
42	Research Progress and Prospect of Triboelectric Nanogenerators as Self-Powered Human Body Sensors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 863-878	4	45
41	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. <i>ACS Nano</i> , 2019 , 13, 978-995	16.7	42
40	A thermally flexible and multi-site tactile sensor for remote 3D dynamic sensing imaging. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 1039-1051	4.5	41
39	Preparation and Characteristics of MoSe ₂ Interlayer in Bifacial Cu(In,Ga)Se ₂ Solar Cells. <i>Physics Procedia</i> , 2012 , 32, 372-378		36
38	Ultrasensitive Label-free MiRNA Sensing Based on a Flexible Graphene Field-Effect Transistor without Functionalization. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1090-1098	4	32
37	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. <i>Solar Rrl</i> , 2021 , 5, 2000800	7.1	29
36	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. <i>RSC Advances</i> , 2015 , 5, 60884-60891	3.7	27
35	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 5964-5973	9.6	27
34	Effect of Na on lower open circuit voltage of flexible CIGS thin-film solar cells prepared by the low-temperature process. <i>Physica Scripta</i> , 2012 , 85, 055806	2.6	27
33	Graphene-Activated Optoplasmonic Nanomembrane Cavities for Photodegradation Detection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15891-15897	9.5	25
32	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. <i>Light: Science and Applications</i> , 2020 , 9, 197	16.7	25
31	Assembling Sn ₃ O ₄ nanostructures on a hydrophobic PVDF film through metal-F coordination to construct a piezotronic effect-enhanced Sn ₃ O ₄ /PVDF hybrid photocatalyst. <i>Nano Energy</i> , 2020 , 72, 104688	17.1	24
30	Ultrathin microcrystalline hydrogenated Si/Ge alloyed tandem solar cells towards full solar spectrum conversion. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 997-1005	4.5	20
29	Substrate dependence on (Sb ₄ Se ₆) _n ribbon orientations of antimony selenide thin films: Morphology, carrier transport and photovoltaic performance. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158703	5.7	19
28	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2021 , 13, 143	19.5	18
27	Micro-Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. <i>Small</i> , 2021 , 17, e2100804	11	18

26	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. <i>Nano Structures Nano Objects</i> , 2018 , 16, 38-44	5.6	17
25	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000744	6.8	16
24	Unsymmetrical Alveolate PMMA/MWCNT Film as a Piezoresistive E-Skin with Four-Dimensional Resolution and Application for Detecting Motion Direction and Airflow Rate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30896-30904	9.5	15
23	A free-standing superhydrophobic film for highly efficient removal of water from turbine oil. <i>Frontiers of Chemical Science and Engineering</i> , 2019 , 13, 393-399	4.5	15
22	Construction of High Field-Effect Mobility Multilayer MoS ₂ Field-Effect Transistors with Excellent Stability through Interface Engineering. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2132-2140	4	14
21	Applications of nanogenerators for biomedical engineering and healthcare systems. <i>Information Materials</i> , 2022 , 4,	23.1	13
20	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2020 , 5, 78-96	10.1	12
19	Fabrication of a uniform Au nanodot array/monolayer graphene hybrid structure for high-performance surface-enhanced Raman spectroscopy. <i>Journal of Materials Science</i> , 2020 , 55, 591-602	4.3	12
18	Low Lattice Mismatch InSe/Se Vertical Van der Waals Heterostructure for High-performance Transistors via Strong Fermi-Level Depinning. <i>Small Methods</i> , 2020 , 4, 2000238	12.8	11
17	Energy Band Alignment in Molybdenum Oxide/Cu(In,Ga)Se ₂ Interface for High-Efficiency Ultrathin Cu(In,Ga)Se ₂ Solar Cells from Low-Temperature Growth. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3408-3414	6.1	10
16	Experimental and dynamical study of a dual Q-switched intracavity OPO based on few-layer MoSe ₂ . <i>Optics Express</i> , 2019 , 27, 36474-36486	3.3	10
15	MnSe ₂ /Se Composite Nanobelts as an Improved Performance Anode for Lithium Storage. <i>International Journal of Electrochemical Science</i> , 2019 , 6000-6008	2.2	8
14	Applications of Carbon Nanotubes in the Internet of Things Era. <i>Nano-Micro Letters</i> , 2021 , 13, 191	19.5	8
13	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Information Materials</i> , 2021 , 3, 1455	23.1	7
12	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021 , 6, 3841-3881	9.2	7
11	Effect of Milling and Annealing on Carbon-Silver System. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2770-2774	1.3	6
10	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2019 , 12, 10	10	5
9	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022 , 3, 1497-1505	3.3	5

8	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene.. <i>Nanotechnology</i> , 2022 ,	3.4	5
7	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless-Localized Electrical Signals Driven by Electromagnetic Induction.. <i>Advanced Science</i> , 2022 , e2104424	13.6	4
6	Large area uniform PtSx synthesis on sapphire substrate for performance improved photodetectors. <i>Applied Materials Today</i> , 2021 , 25, 101176	6.6	4
5	Threshold decrease and output-power improvement in dual-loss Q-switched laser based on a few-layer WTe2 saturable absorber. <i>Applied Physics Express</i> , 2020 , 13, 052004	2.4	3
4	Experimental optimization and dynamics solution of active-passive Q-switched intracavity optical parametric oscillator based on EO modulator and layered-WSe2 SA. <i>Infrared Physics and Technology</i> , 2020 , 111, 103525	2.7	3
3	Enhanced charge carrier transport via efficient grain conduction mode for Sb2Se3 solar cell applications. <i>Applied Surface Science</i> , 2022 , 591, 153169	6.7	3
2	An active and passive dual-loss Q-switched intracavity OPO based on few-layer WS2 saturable absorber. <i>Optical Materials</i> , 2020 , 100, 109700	3.3	2
1	Accurate Line Detection by Adjusting Hough Transform Threshold Adaptively 2010 ,		2