

Xu Jianbin

List of Publications by Year in descending order

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504
papers

26,482
citations

4388

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9589

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515
docs citations

515
times ranked

28751
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled dipoles of <i>o</i> -carborane on gate oxide tuning charge carriers in organic field effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2690-2695.	5.5	2
2	Effect of hydrogen bonds on the thermal transport in a precisely branched polyethylene with ordered and amorphous structures. <i>Computational Materials Science</i> , 2022, 205, 111191.	3.0	5
3	ZnO electron transporting layer engineering realized over 20% efficiency and over 1.28 V open-circuit voltage in all-inorganic perovskite solar cells. <i>EcoMat</i> , 2022, 4, .	11.9	23
4	Phase-controlled epitaxial growth of MoTe ₂ : Approaching high-quality 2D materials for electronic devices with low contact resistance. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	9
5	Unveiling the role of filler surface energy in enhancing thermal conductivity and mechanical properties of thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 157, 106904.	7.6	15
6	Strong correlation between electrical and thermal transport properties in graphene/graphite films beyond the Wiedemann-Franz law. <i>Carbon</i> , 2022, , .	10.3	0
7	Abnormally high thermal conductivity in fivefold twinned diamond nanowires. <i>Materials Today Physics</i> , 2022, 25, 100705.	6.0	9
8	Fast Self-Healing and Self-Cleaning Anticorrosion Coating Based on Dynamic Reversible Imine and Multiple Hydrogen Bonds. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4709-4718.	4.4	20
9	Surface Polarity Regulation by Relieving Fermi-Level Pinning with Naphthalocyanine Tetraimides toward Efficient Perovskite Solar Cells with Improved Photostability. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	30
10	40 GHz waveguide-integrated two-dimensional palladium diselenide photodetectors. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
11	Generation and Detection of Strain-Localized Excitons in WS ₂ Monolayer by Plasmonic Metal Nanocrystals. <i>ACS Nano</i> , 2022, 16, 10647-10656.	14.6	14
12	Hole-dominated Fowler-Nordheim tunneling in 2D heterojunctions for infrared imaging. <i>Science Bulletin</i> , 2021, 66, 139-146.	9.0	17
13	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. <i>Informa-Materials</i> , 2021, 3, 36-60.	17.3	59
14	Uncovering the Electron-Phonon Interplay and Dynamical Energy-Dissipation Mechanisms of Hot Carriers in Hybrid Lead Halide Perovskites. <i>Advanced Energy Materials</i> , 2021, 11, 2003071.	19.5	28
15	Intrinsic memristive mechanisms in 2D layered materials for high-performance memory. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	15
16	The Impact of PbI ₂ :KI Alloys on the Performance of Sequentially Deposited Perovskite Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 821-830.	2.0	5
17	In Situ Ultrafast and Patterned Growth of Transition Metal Dichalcogenides from Inkjet-Printed Aqueous Precursors. <i>Advanced Materials</i> , 2021, 33, e2100260.	21.0	36
18	Dually-Passivated Perovskite Solar Cells with Reduced Voltage Loss and Increased Super Oxide Resistance. <i>Angewandte Chemie</i> , 2021, 133, 8384-8393.	2.0	66

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19	Numerical homogenization of thermal conductivity of particle-filled thermal interface material by fast Fourier transform method. <i>Nanotechnology</i> , 2021, 32, 265708.	2.6	13
20	Narrowband Photodetector by Integrating PTCDI-C13 J-aggregates with Graphene. , 2021, , .		0
21	Recent progress in thermally conductive polymer/boron nitride composites by constructing three-dimensional networks. <i>Composites Communications</i> , 2021, 24, 100650.	6.3	55
22	Enhanced Electrochemical Stability by Alkyldiammonium in Dionâ€“Jacobson Perovskite toward Ultrastable Lightâ€“Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100243.	7.3	21
23	The selection strategy of ammonium-group organic salts in vapor deposited perovskites: From dimension regulation to passivation. <i>Nano Energy</i> , 2021, 84, 105893.	16.0	19
24	Controlled Synthesis of MoxW1-xTe2 Atomic Layers with Emergent Quantum States. <i>ACS Nano</i> , 2021, 15, 11526-11534.	14.6	12
25	Ultraâ€“Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer Jâ€“Aggregate Organic Crystal with Graphene. <i>Advanced Optical Materials</i> , 2021, 9, 2100158.	7.3	15
26	Defect Etching of Phaseâ€“Transitionâ€“Assisted CVDâ€“Grown 2H-MoTe_2 . <i>Small</i> , 2021, 17, e2102146.	16.0	9
27	A spontaneously formed plasmonic-MoTe ₂ hybrid platform for ultrasensitive Raman enhancement. <i>Cell Reports Physical Science</i> , 2021, 2, 100526.	5.6	10
28	Optimization of Effective Thermal Conductivity of Thermal Interface Materials Based on the Genetic Algorithm-Driven Random Thermal Network Model. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45050-45058.	8.0	17
29	2D materialsâ€“based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , 2021, 373, 1353-1358.	12.6	177
30	Numerical analysis of the microscopic factors influencing the thermal conductivity of Al ₂ O ₃ / AlN polymer composites. , 2021, , .		0
31	Evaluation of Aging Performance of Thermal Gel Subjected to Laser Flash Tests. , 2021, , .		0
32	Topology Optimization Design Of Meta-Material Heat Spreader. , 2021, , .		1
33	Numerical analysis on the effect of microstructures on the thermal and mechanical properties of carbon fiber / Al ₂ O ₃ thermal pad. , 2021, , .		0
34	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. <i>ACS Photonics</i> , 2021, 8, 3583-3590.	6.6	6
35	Synthesis and Characterization of Metallic Janus MoSH Monolayer. <i>ACS Nano</i> , 2021, 15, 20319-20331.	14.6	47
36	Through-plane assembly of carbon fibers into 3D skeleton achieving enhanced thermal conductivity of a thermal interface material. <i>Chemical Engineering Journal</i> , 2020, 380, 122550.	12.7	201

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37	Interlayer Cross-Linked 2D Perovskite Solar Cell with Uniform Phase Distribution and Increased Exciton Coupling. <i>Solar Rrl</i> , 2020, 4, 1900578.	5.8	39
38	Enhanced four-wave mixing with MoS ₂ on a silicon waveguide. <i>Journal of Optics (United Tj ETQq0 0 Q,rgBT /Overlock 10 T</i>	2.2	21
39	Polymer composites with high thermal conductivity optimized by polyline-folded graphite paper. <i>Composites Science and Technology</i> , 2020, 188, 107970.	7.8	23
40	Achieving Significant Thermal Conductivity Enhancement via an Ice-Templated and Sintered BN-SiC Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2892-2902.	8.0	118
41	A self-driven approach for local ion intercalation in vdW crystals. <i>Nanoscale</i> , 2020, 12, 1448-1454.	5.6	11
42	Understanding Charge Transport in All-Inorganic Halide Perovskite Nanocrystal Thin-Film Field Effect Transistors. <i>ACS Energy Letters</i> , 2020, 5, 2614-2623.	17.4	39
43	Carbon Dot-Based Composite Films for Simultaneously Harvesting Raindrop Energy and Boosting Solar Energy Conversion Efficiency in Hybrid Cells. <i>ACS Nano</i> , 2020, 14, 10359-10369.	14.6	47
44	An Acoustic Meta-Skin Insulator. <i>Advanced Materials</i> , 2020, 32, e2002251.	21.0	26
45	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2888-2894.	4.3	6
46	Cascade Type-II 2D/3D Perovskite Heterojunctions for Enhanced Stability and Photovoltaic Efficiency. <i>Solar Rrl</i> , 2020, 4, 2000282.	5.8	18
47	Towards Scalable Fabrications and Applications of 2D Layered Material-based Vertical and Lateral Heterostructures. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 525-550.	2.6	6
48	Aligned-carbon-fibre/Silicone-rubber Composite with High Thermal Conductivity Fabricated by Double-stacked Electrostatic Flocking Method. , 2020, , .		1
49	Size Modulation and Heterovalent Doping Facilitated Hybrid Organic and Perovskite Quantum Dot Bulk Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 11359-11367.	5.1	14
50	Facile Fabrication of Silicon Carbide Spheres and Its Application in Polymer Composites with Enhanced Thermal Conductivity. , 2020, , .		1
51	Observation of Strong π -Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7340-7345.	2.5	8
52	Bound-States-in-Continuum Hybrid Integration of 2D Platinum Diselenide on Silicon Nitride for High-Speed Photodetectors. <i>ACS Photonics</i> , 2020, 7, 2643-2649.	6.6	32
53	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56060-56067.	8.0	69
54	High-speed infrared two-dimensional platinum diselenide photodetectors. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	33

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55	Identifying the functional groups effect on passivating perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 1726-1734.	9.0	52
56	Structural Regulation for Highly Efficient and Stable Perovskite Solar Cells via Mixed-Vapor Deposition. <i>ACS Applied Energy Materials</i> , 2020, 3, 6544-6551.	5.1	10
57	Green perovskite light-emitting diodes with simultaneous high luminance and quantum efficiency through charge injection engineering. <i>Science Bulletin</i> , 2020, 65, 1832-1839.	9.0	24
58	Bifunctional Effects of Trichloro(octyl)silane Modification on the Performance and Stability of a Perovskite Solar Cell via Microscopic Characterization Techniques. <i>ACS Applied Energy Materials</i> , 2020, 3, 3302-3309.	5.1	11
59	Efficient Electronic Transport in Partially Disordered Co_3O_4 Nanosheets for Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 3071-3081.	5.1	27
60	Enhanced thermo-optic nonlinearities in a MoS_2 -on-silicon microring resonator. <i>Applied Physics Express</i> , 2020, 13, 022004.	2.4	8
61	Nanoparticles with rationally designed isoelectronic traps as fillers significantly enhance breakdown strength and electrostatic energy density of polymer composites. <i>Composites Science and Technology</i> , 2020, 195, 108201.	7.8	33
62	Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24298-24307.	8.0	117
63	Effects of Alkyl Chain Length on Crystal Growth and Oxidation Process of Two-Dimensional Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 1422-1429.	17.4	112
64	Ordered orientation of silicon carbide nanowires in polymer composites for enhanced permittivity and energy storage density. <i>Materials Chemistry and Physics</i> , 2020, 249, 122993.	4.0	4
65	Growth dynamics and photoresponse of the Wadsley phase V_6O_{13} crystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6470-6477.	5.5	8
66	Efficient Slantwise Aligned Dion-Jacobson Phase Perovskite Solar Cells Based on Trans-1,4-Cyclohexanediamine. <i>Small</i> , 2020, 16, e2003098.	10.0	33
67	Hybrid two-dimensional-material photonics with bound states in the continuum. , 2020, , .		0
68	Graphene-silicon nitride photodetector with bound state in the continuum. , 2020, , .		0
69	Graphene-assisted electro-optomechanical integration on a silicon-on-insulator platform. <i>Optics Express</i> , 2020, 28, 14386.	3.4	1
70	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D In_2S_3 . <i>Advanced Optical Materials</i> , 2019, 7, 1901085.	7.3	39
71	Serum chitinase activity prognosticates metastasis of colorectal cancer. <i>BMC Cancer</i> , 2019, 19, 629.	2.6	5
72	An Interlayer with Strong Pb-Cl Bond Delivers Ultraviolet-Filter-Free, Efficient, and Photostable Perovskite Solar Cells. <i>IScience</i> , 2019, 21, 217-227.	4.1	43

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73	Hybrid 2D-3D Material Photonics with Bound States in the Continuum. <i>Advanced Optical Materials</i> , 2019, 7, 1901306.	7.3	43
74	Cripto-1 expression in patients with clear cell renal cell carcinoma is associated with poor disease outcome. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 378.	8.6	18
75	Size and crystallinity control of dispersed VO ₂ particles for modulation of metal-insulator transition temperature and hysteresis. <i>CrystEngComm</i> , 2019, 21, 5749-5756.	2.6	16
76	Flexible Graphene-Glass Fiber Composite Film with Ultrahigh Thermal Conductivity and Mechanical Strength as Highly Efficient Thermal Spreader Materials. , 2019, , .		0
77	Room-Temperature Welding of Silver Telluride Nanowires for High-Performance Thermoelectric Film. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37892-37900.	8.0	35
78	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	17.4	96
79	Thermal and illumination effects on a Pbl ₂ nanoplate and its transformation to CH ₃ NH ₃ Pbl ₃ perovskite. <i>CrystEngComm</i> , 2019, 21, 736-740.	2.6	4
80	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	21.0	62
81	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	12.8	60
82	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019, 13, 7402-7409.	14.6	115
83	Spherical core-shell Al@Al ₂ O ₃ filled epoxy resin composites as high-performance thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 123, 260-269.	7.6	91
84	Improving thermal conductivity through welding boron nitride nanosheets onto silver nanowires via silver nanoparticles. <i>Composites Science and Technology</i> , 2019, 177, 118-126.	7.8	111
85	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 92-99.	7.6	94
86	LYPD8 regulates the proliferation and migration of colorectal cancer cells through inhibiting the secretion of IL-6 and TNF- α . <i>Oncology Reports</i> , 2019, 41, 2389-2395.	2.6	4
87	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , 2019, 59, 619-625.	16.0	88
88	Spray-assisted assembled spherical boron nitride as fillers for polymers with enhanced thermally conductivity. <i>Chemical Engineering Journal</i> , 2019, 370, 166-175.	12.7	141
89	van der Waals Transition-Metal Oxide for Vis-MIR Broadband Photodetection via Intercalation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15741-15747.	8.0	36
90	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , 2019, 4, 1025-1033.	17.4	64

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91	Terahertz Microfluidic Metamaterial Biosensor for Sensitive Detection of Small-Volume Liquid Samples. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019, 9, 209-214.	3.1	56
92	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019, 13, 1547-1554.	14.6	131
93	Silver nanoparticle-modified alumina microsphere hybrid composites for enhanced energy density and thermal conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 299-309.	7.6	45
94	Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. <i>Chemical Engineering Journal</i> , 2019, 368, 79-87.	12.7	64
95	Artificial control of in-plane anisotropic photoelectricity in monolayer MoS ₂ . <i>Applied Materials Today</i> , 2019, 15, 203-211.	4.3	45
96	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	4.3	52
97	Efficient passivation of monolayer MoS ₂ by epitaxially grown 2D organic crystals. <i>Science Bulletin</i> , 2019, 64, 1700-1706.	9.0	15
98	Direct Observation of Charge Injection of Graphene in the Graphene/WSe ₂ Heterostructure by Optical-Pump Terahertz-Probe Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47501-47506.	8.0	19
99	A centrifugal microfluidic pressure regulator scheme for continuous concentration control in droplet-based microreactors. <i>Lab on A Chip</i> , 2019, 19, 3870-3879.	6.0	19
100	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPbI ₃ Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27640-27647.	10.3	56
101	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019, 10, 5589.	12.8	59
102	Bulk Heterojunction Quasi-Two-Dimensional Perovskite Solar Cell with 1.18 V High Photovoltage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2935-2943.	8.0	13
103	Silver Telluride Nanowire Assembly for High-Performance Flexible Thermoelectric Film and Its Application in Self-Powered Temperature Sensor. <i>Advanced Electronic Materials</i> , 2019, 5, 1800612.	5.1	58
104	Tertiary Amines Differentiated from Primary and Secondary Amines by Active Ester-Functionalized Hexabenzoperylene in Field Effect Transistors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1676-1680.	3.3	15
105	Restoring the photovoltaic effect in graphene-based van der Waals heterojunctions towards self-powered high-detectivity photodetectors. <i>Nano Energy</i> , 2019, 57, 214-221.	16.0	65
106	A novel fluorescence "on-off-on" peptide-based chemosensor for simultaneous detection of Cu ²⁺ , Ag ⁺ and S ²⁻ . <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 129-137.	7.8	67
107	Preparation and Characterization of Two-Dimensional Layered Transition Metal Dichalcogenide Thin Films. , 2019, , .		0
108	Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides. <i>Advanced Materials</i> , 2018, 30, e1705318.	21.0	178

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109	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2018, 10, 25878-25901.	8.0	183
110	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. ACS Applied Materials & Interfaces, 2018, 10, 9669-9678.	8.0	183
111	Deterministic and Etching-Free Transfer of Large-Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. Advanced Materials Technologies, 2018, 3, 1700282.	5.8	26
112	Broadside Nanoantennas Made of Single Silver Nanorods. ACS Nano, 2018, 12, 1720-1731.	14.6	24
113	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. Small, 2018, 14, e1704044.	10.0	295
114	Enhanced thermal conductivity for Ag-deposited alumina sphere/epoxy resin composites through manipulating interfacial thermal resistance. Composites Part A: Applied Science and Manufacturing, 2018, 107, 561-569.	7.6	115
115	Functionalized π -Stacks of Hexabenzoperylene as a Platform for Chemical and Biological Sensing. Chem, 2018, 4, 1416-1426.	11.7	38
116	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. Composites Science and Technology, 2018, 160, 127-137.	7.8	199
117	Liquid nitrogen driven assembly of nanomaterials into spongy millispheres for various applications. Journal of Materials Chemistry A, 2018, 6, 5984-5992.	10.3	15
118	Fused-Ring Electron Acceptor ITIC- <i>h</i> : A Novel Stabilizer for Halide Perovskite Precursor Solution. Advanced Energy Materials, 2018, 8, 1703399.	19.5	112
119	Core-shell Cu@rGO hybrids filled in epoxy composites with high thermal conduction. Journal of Materials Chemistry C, 2018, 6, 257-265.	5.5	56
120	Rhodium(<i>i</i>)-catalysed decarbonylative direct C-H vinylation and dienylation of arenes. Organic Chemistry Frontiers, 2018, 5, 734-740.	4.5	32
121	1T ² Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. Journal of the American Chemical Society, 2018, 140, 8696-8704.	13.7	192
122	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. Small, 2018, 14, e1803350.	10.0	82
123	Graphene/In ₂ S ₃ van der Waals Heterostructure for Ultrasensitive Photodetection. ACS Photonics, 2018, 5, 4912-4919.	6.6	36
124	Terahertz Microfluidic Metamaterial Biosensor for Tiny Volume Liquid Samples. , 2018, , .		1
125	Facile Preparation of Silver Nanoparticles Decorated Boron Nitride Nanotube Hybrids. , 2018, , .		1
126	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. Nature Communications, 2018, 9, 4909.	12.8	117

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127	A novel graphene oxide millispheres / epoxy resin composite with improved thermal conductivity. , 2018, , .		0
128	Hybrid Integration of Black Phosphorus-WSe ₂ Heterojunction Photodetector on Silicon Waveguide. , 2018, , .		0
129	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. Joule, 2018, 2, 2706-2721.	24.0	124
130	Preparation and Characterization of Al ₂ O ₃ -AgNP hybrids for Application in Thermally Conductive Polymer Composites. , 2018, , .		0
131	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. Advanced Materials, 2018, 30, e1801562.	21.0	55
132	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. Composites Science and Technology, 2018, 165, 322-330.	7.8	98
133	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. Journal of Materials Chemistry A, 2018, 6, 12091-12097.	10.3	88
134	Enhanced Photoresponse in Interfacial Gated Graphene Phototransistor With Ultrathin Al ₂ O ₃ Dielectric. IEEE Electron Device Letters, 2018, 39, 987-990.	3.9	8
135	Advances in graphene-based polymer composites with high thermal conductivity. Veruscript Functional Nanomaterials, 2018, 2, 1-17.	0.2	14
136	Graphene nano-optomechanical resonators on an integrated photonic platform. , 2018, , .		2
137	Improving the Quality of the Si/Cu ₂ O Interface by Methyl Group Passivation and Its Application in Photovoltaic Devices. Advanced Materials Interfaces, 2017, 4, 1600833.	3.7	9
138	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. Nano Research, 2017, 10, 1336-1344.	10.4	30
139	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. Advanced Functional Materials, 2017, 27, 1603884.	14.9	73
140	Controlled Electrochemical Deposition of Large-Area MoS ₂ on Graphene for High-Responsivity Photodetectors. Advanced Functional Materials, 2017, 27, 1603998.	14.9	45
141	Fully solution-processed metal oxide thin-film transistors via a low-temperature aqueous route. Ceramics International, 2017, 43, 6130-6137.	4.8	48
142	Textured CH ₃ NH ₃ PbI ₃ thin film with enhanced stability for high performance perovskite solar cells. Nano Energy, 2017, 33, 485-496.	16.0	74
143	Growth of Large-Scale, Large-Size, Few-Layered In ₂ MoO ₃ on SiO ₂ and Its Photoresponse Mechanism. ACS Applied Materials & Interfaces, 2017, 9, 5543-5549.	8.0	50
144	Large-Grain Formamidinium PbI ₃ Br _x for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. Advanced Energy Materials, 2017, 7, 1601882.	19.5	76

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145	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. <i>ACS Nano</i> , 2017, 11, 5167-5178.	14.6	407
146	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	211
147	A Study on the Factors about Customers' Acceptability to Airline Ancillary Products. <i>Procedia Computer Science</i> , 2017, 107, 39-46.	2.0	5
148	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700118.	19.5	74
149	Highly Sensitive and Broadband Organic Photodetectors with Fast Speed Gain and Large Linear Dynamic Range at Low Forward Bias. <i>Small</i> , 2017, 13, 1603260.	10.0	102
150	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe ₂ photogate vertical heterostructure. <i>Nano Energy</i> , 2017, 37, 53-60.	16.0	252
151	A novel h-BN/RGO hybrids for epoxy resin composites achieving enhanced high thermal conductivity and energy density. <i>RSC Advances</i> , 2017, 7, 23355-23362.	3.6	50
152	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017, 4, .	11.3	476
153	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13544-13553.	8.0	394
154	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , 2017, 11, 4507-4513.	14.6	435
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