

# Xu Jianbin

## List of Publications by Year in descending order

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504  
papers

26,482  
citations

4370

86  
h-index

9553

142  
g-index

515  
all docs

515  
docs citations

515  
times ranked

28751  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. <i>Nature Photonics</i> , 2013, 7, 888-891.	15.6	731
2	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017, 2, .	9.9	594
3	Hybrid Halide Perovskite Solar Cell Precursors: Colloidal Chemistry and Coordination Engineering behind Device Processing for High Efficiency. <i>Journal of the American Chemical Society</i> , 2015, 137, 4460-4468.	6.6	586
4	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017, 4, .	5.5	476
5	Ice-templated Assembly Strategy to Construct 3D Boron Nitride Nanosheet Networks in Polymer Composites for Thermal Conductivity Improvement. <i>Small</i> , 2015, 11, 6205-6213.	5.2	473
6	Near-Infrared Photodetector Based on MoS <sub>2</sub> /Black Phosphorus Heterojunction. <i>ACS Photonics</i> , 2016, 3, 692-699.	3.2	446
7	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , 2017, 11, 4507-4513.	7.3	435
8	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017, 3, e1700589.	4.7	419
9	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.	7.3	407
10	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13544-13553.	4.0	394
11	Soluble and Stable <i>N</i> -Heteropentacenes with High Field-effect Mobility. <i>Advanced Materials</i> , 2011, 23, 1535-1539.	11.1	334
12	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014, 5, 5162.	5.8	315
13	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2636-2657.	1.8	309
14	The physics and chemistry of graphene-on-surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 4417-4449.	18.7	309
15	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. <i>Small</i> , 2018, 14, e1704044.	5.2	295
16	Electronic Properties of MoS <sub>2</sub> -WS <sub>2</sub> Heterostructures Synthesized with Two-Step Lateral Epitaxial Strategy. <i>ACS Nano</i> , 2015, 9, 9868-9876.	7.3	283
17	Artificial nacre-like papers based on noncovalent functionalized boron nitride nanosheets with excellent mechanical and thermally conductive properties. <i>Nanoscale</i> , 2015, 7, 6774-6781.	2.8	265
18	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS <sub>2</sub> Field-effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604093.	7.8	265

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19	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe <sub>2</sub> photogate vertical heterostructure. <i>Nano Energy</i> , 2017, 37, 53-60.	8.2	252
20	Significant Enhancement of Thermal Conductivity in Bioinspired Freestanding Boron Nitride Papers Filled with Graphene Oxide. <i>Chemistry of Materials</i> , 2016, 28, 1049-1057.	3.2	250
21	Highly Sensitive Glucose Biosensors Based on Organic Electrochemical Transistors Using Platinum Gate Electrodes Modified with Enzyme and Nanomaterials. <i>Advanced Functional Materials</i> , 2011, 21, 2264-2272.	7.8	243
22	High-Performance Graphene-Based Hole Conductor-Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. <i>Small</i> , 2015, 11, 2269-2274.	5.2	233
23	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2016, 116, 016602.	2.9	220
24	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, .	3.9	211
25	The Position of Nitrogen in N-Heteropentacenes Matters. <i>Advanced Materials</i> , 2011, 23, 5514-5518.	11.1	210
26	Application of admittance spectroscopy to evaluate carrier mobility in organic charge transport materials. <i>Journal of Applied Physics</i> , 2006, 99, 013706.	1.1	208
27	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.	6.6	201
28	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. <i>Composites Science and Technology</i> , 2018, 160, 127-137.	3.8	199
29	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. <i>ACS Nano</i> , 2017, 11, 430-437.	7.3	192
30	1T <sup>-2</sup> Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. <i>Journal of the American Chemical Society</i> , 2018, 140, 8696-8704.	6.6	192
31	Lateral Built-in Potential of Monolayer MoS <sub>2</sub> /WS <sub>2</sub> In-Plane Heterostructures by a Shortcut Growth Strategy. <i>Advanced Materials</i> , 2015, 27, 6431-6437.	11.1	191
32	Silver Nanoparticle-Deposited Boron Nitride Nanosheets as Fillers for Polymeric Composites with High Thermal Conductivity. <i>Scientific Reports</i> , 2016, 6, 19394.	1.6	184
33	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25878-25901.	4.0	183
34	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9669-9678.	4.0	183
35	Signature of Intrinsic High-Temperature Ferromagnetism in Cobalt-Doped Zinc Oxide Nanocrystals. <i>Advanced Materials</i> , 2006, 18, 2476-2480.	11.1	178
36	Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides. <i>Advanced Materials</i> , 2018, 30, e1705318.	11.1	178

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37	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , 2021, 373, 1353-1358.	6.0	177
38	Electron Mobility Exceeding $10 \text{ cm}^2/\text{Vs}$ and Band-Like Charge Transport in Solution-Processed Channel Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2016, 28, 5276-5283.	11.1	173
39	The effect of interfacial state on the thermal conductivity of functionalized Al <sub>2</sub> O <sub>3</sub> filled glass fibers reinforced polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 49-55.	3.8	159
40	Learning from Natural Nacre: Constructing Layered Polymer Composites with High Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33001-33010.	4.0	159
41	Evidence of intrinsic ferromagnetism in individual dilute magnetic semiconducting nanostructures. <i>Nature Nanotechnology</i> , 2009, 4, 523-527.	15.6	149
42	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017, 3, e1701186.	4.7	146
43	Highly Thermally Conductive Composite Papers Prepared Based on the Thought of Bioinspired Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15645-15653.	4.0	145
44	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015, 3, 1207-1214.	3.6	141
45	Spray-assisted assembled spherical boron nitride as fillers for polymers with enhanced thermally conductivity. <i>Chemical Engineering Journal</i> , 2019, 370, 166-175.	6.6	141
46	Facile and Environmentally Friendly Solution-Processed Aluminum Oxide Dielectric for Low-Temperature, High-Performance Oxide Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5803-5810.	4.0	139
47	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31248-31255.	4.0	139
48	Heat transfer between two metallic surfaces at small distances. <i>Journal of Applied Physics</i> , 1994, 76, 7209-7216.	1.1	134
49	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016, 28, 5200-5205.	11.1	134
50	The role of solution-processed high- $\kappa$ gate dielectrics in electrical performance of oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5389.	2.7	133
51	Facile Preparation of Superelastic and Ultralow Dielectric Boron Nitride Nanosheet Aerogels via Freeze-Casting Process. <i>Chemistry of Materials</i> , 2015, 27, 5849-5855.	3.2	133
52	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019, 13, 1547-1554.	7.3	131
53	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , 2018, 2, 2706-2721.	11.7	124
54	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS <sub>2</sub> Film with Spatial Homogeneity and the Visualization of Grain Boundaries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12073-12081.	4.0	120

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55	High-Quality Large-Area Graphene from Dehydrogenated Polycyclic Aromatic Hydrocarbons. <i>Chemistry of Materials</i> , 2012, 24, 3906-3915.	3.2	119
56	Achieving Significant Thermal Conductivity Enhancement via an Ice-Templated and Sintered BN-SiC Skeleton. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2892-2902.	4.0	118
57	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , 2018, 9, 4909.	5.8	117
58	Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24298-24307.	4.0	117
59	Enhanced thermal conductivity for Ag-deposited alumina sphere/epoxy resin composites through manipulating interfacial thermal resistance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 561-569.	3.8	115
60	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019, 13, 7402-7409.	7.3	115
61	Fused-Ring Electron Acceptor ITIC: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	10.2	112
62	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.	8.8	112
63	Improving thermal conductivity through welding boron nitride nanosheets onto silver nanowires via silver nanoparticles. <i>Composites Science and Technology</i> , 2019, 177, 118-126.	3.8	111
64	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg <sup>2+</sup> ) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017, 27, 1701642.	7.8	110
65	Robust Biopolymeric Supramolecular "Host" Guest Macromer-Hydrogels Reinforced by <i>in Situ</i> Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016, 49, 866-875.	2.2	102
66	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.	5.2	102
67	High-Performance Graphene Devices on SiO <sub>2</sub> /Si Substrate Modified by Highly Ordered Self-Assembled Monolayers. <i>Advanced Materials</i> , 2011, 23, 2464-2468.	11.1	101
68	Boron nitride-graphene oxide hybrids for epoxy composites with enhanced thermal conductivity. <i>RSC Advances</i> , 2016, 6, 35847-35854.	1.7	101
69	A Simple Method for Synthesis of High-Quality Millimeter-Scale 1T <sup>2</sup> Transition-Metal Telluride and Near-Field Nano-optical Properties. <i>Advanced Materials</i> , 2017, 29, 1700704.	11.1	101
70	Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/β <sup>2</sup> -catenin signaling. <i>Biomaterials</i> , 2017, 145, 33-43.	5.7	100
71	Structural evidence of secondary phase segregation from the Raman vibrational modes in Zn <sub>1-x</sub> CoxO <sub>0.6</sub> . <i>Applied Physics Letters</i> , 2007, 91, .	1.5	98
72	Band Gap Opening of Bilayer Graphene by F4-TCNQ Molecular Doping and Externally Applied Electric Field. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11377-11381.	1.2	98

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73	High-responsivity graphene-on-silicon slot waveguide photodetectors. <i>Nanoscale</i> , 2016, 8, 13206-13211.	2.8	98
74	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. <i>Composites Science and Technology</i> , 2018, 165, 322-330.	3.8	98
75	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. <i>Nanotechnology</i> , 2008, 19, 455702.	1.3	96
76	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	8.8	96
77	Graphene Based Non-Volatile Memory Devices. <i>Advanced Materials</i> , 2014, 26, 5496-5503.	11.1	95
78	Self-Assembled Monolayers of Cyclohexyl-Terminated Phosphonic Acids as a General Dielectric Surface for High-Performance Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2014, 26, 7190-7196.	11.1	95
79	Quantitative Analysis of Graphene Doping by Organic Molecular Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7596-7602.	1.5	94
80	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite film. <i>Nature Communications</i> , 2016, 7, 13503.	5.8	94
81	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.	3.8	94
82	Preparation of Boron Nitride Nanosheet/Nanofibrillated Cellulose Nanocomposites with Ultrahigh Thermal Conductivity via Engineering Interfacial Thermal Resistance. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700563.	1.9	93
83	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016, 16, 3754-3759.	4.5	92
84	Spherical core-shell Al@Al <sub>2</sub> O <sub>3</sub> filled epoxy resin composites as high-performance thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 123, 260-269.	3.8	91
85	Raman spectroscopic study of oxidation and phase transition in W <sub>18</sub> O <sub>49</sub> nanowires. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 176-180.	1.2	89
86	Self-Assembled Monolayers of Phosphonic Acids with Enhanced Surface Energy for High-Performance Solution-Processed Nanochannel Organic Thin-Film Transistors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6222-6227.	7.2	89
87	High-Performance Broadband Floating-Base Bipolar Phototransistor Based on WSe <sub>2</sub> /BP/MoS <sub>2</sub> Heterostructure. <i>ACS Photonics</i> , 2017, 4, 823-829.	3.2	89
88	Flexible dielectric papers based on biodegradable cellulose nanofibers and carbon nanotubes for dielectric energy storage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6037-6044.	2.7	88
89	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12091-12097.	5.2	88
90	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , 2019, 59, 619-625.	8.2	88

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91	Preparation and characterization of alginate-carrageenan hydrogel films crosslinked using a water-soluble carbodiimide (WSC). <i>Journal of Membrane Science</i> , 2003, 218, 131-146.	4.1	87
92	Molybdenum disulfide-based amplified fluorescence DNA detection using hybridization chain reactions. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2395-2401.	2.9	87
93	NiO mesoporous nanowalls grown on RGO coated nickel foam as high performance electrodes for supercapacitors and biosensors. <i>Electrochimica Acta</i> , 2016, 192, 205-215.	2.6	87
94	Emission enhancement from metallodielectric-capped ZnO films. <i>Journal of Applied Physics</i> , 2006, 100, 026103.	1.1	86
95	Monolayer Field-Effect Transistors of Nonplanar Organic Semiconductors with Brickwork Arrangement. <i>Advanced Materials</i> , 2015, 27, 3418-3423.	11.1	85
96	Aggregation-based growth and magnetic properties of inhomogeneous Cu-doped ZnO nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 212502.	1.5	82
97	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , 2018, 14, e1803350.	5.2	82
98	Hollow SnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> core-shell spheres encapsulated in three-dimensional graphene foams for high performance supercapacitors and lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 298, 83-91.	4.0	80
99	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells in vivo using upconversion nanoparticles. <i>Biomaterials</i> , 2016, 110, 1-10.	5.7	77
100	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	77
101	Short Range Order and the Nature of Defects and Traps in Amorphous Silicon Oxynitride Governed by the Mott Rule. <i>Physical Review Letters</i> , 1998, 81, 1054-1057.	2.9	76
102	N-heteroquinones: quadruple weak hydrogen bonds and n-channel transistors. <i>Chemical Communications</i> , 2010, 46, 2977.	2.2	76
103	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016, 6, 32327.	1.6	76
104	Flexible graphene electrothermal films made from electrochemically exfoliated graphite. <i>Journal of Materials Science</i> , 2016, 51, 1043-1051.	1.7	76
105	Large-Grain Formamidinium PbI <sub>3</sub> for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. <i>Advanced Energy Materials</i> , 2017, 7, 1601882.	10.2	76
106	In-Plane Optical Absorption and Free Carrier Absorption in Graphene-on-Silicon Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 43-48.	1.9	75
107	Textured CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film with enhanced stability for high performance perovskite solar cells. <i>Nano Energy</i> , 2017, 33, 485-496.	8.2	74
108	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.	10.2	74



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109	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. <i>Advanced Functional Materials</i> , 2017, 27, 1603884.	7.8	73
110	Ultrathin efficient perovskite solar cells employing a periodic structure of a composite hole conductor for elevated plasmonic light harvesting and hole collection. <i>Nanoscale</i> , 2016, 8, 6290-6299.	2.8	69
111	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56060-56067.	4.0	69
112	Oxygen gettering and oxide degradation during annealing of Si/SiO <sub>2</sub> /Si structures. <i>Journal of Applied Physics</i> , 1995, 77, 175-186.	1.1	68
113	Performance and Stability Improvement of P3HT:PCBM-Based Solar Cells by Thermally Evaporated Chromium Oxide (CrO <sub>x</sub> ) Interfacial Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2699-2702.	4.0	68
114	Short-range order in non-stoichiometric amorphous silicon oxynitride and silicon-rich nitride. <i>Journal of Non-Crystalline Solids</i> , 2002, 297, 96-101.	1.5	67
115	Induced Crystallization of Rubrene in Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 3242-3246.	11.1	67
116	A novel fluorescence "on-off-on" peptide-based chemosensor for simultaneous detection of Cu <sup>2+</sup> , Ag <sup>+</sup> and S <sup>2-</sup> . <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 129-137.	4.0	67
117	Dually-Passivated Perovskite Solar Cells with Reduced Voltage Loss and Increased Super Oxide Resistance. <i>Angewandte Chemie</i> , 2021, 133, 8384-8393.	1.6	66
118	Structure control and characterization of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films by a modified annealing method. <i>Applied Physics Letters</i> , 1999, 74, 1221-1223.	1.5	65
119	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3303-3310.	3.0	65
120	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.	8.2	65
121	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , 2019, 4, 1025-1033.	8.8	64
122	Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. <i>Chemical Engineering Journal</i> , 2019, 368, 79-87.	6.6	64
123	A Meaningful Analogue of Pentacene: Charge Transport, Polymorphs, and Electronic Structures of Dihydrodiazapentacene. <i>Chemistry of Materials</i> , 2009, 21, 1400-1405.	3.2	63
124	Fibrous Epoxy Substrate with High Thermal Conductivity and Low Dielectric Property for Flexible Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500485.	2.6	63
125	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	11.1	62
126	Low-Voltage Organic Field-Effect Transistors (OFETs) with Solution-Processed Metal-Oxide as Gate Dielectric. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4662-4667.	4.0	61



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127	Aqueous Solution-Deposited Gallium Oxide Dielectric for Low-Temperature, Low-Operating-Voltage Indium Oxide Thin-Film Transistors: A Facile Route to Green Oxide Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14720-14725.	4.0	60
128	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	5.8	60
129	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019, 10, 5589.	5.8	59
130	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. <i>Information Materials</i> , 2021, 3, 36-60.	8.5	59
131	Enhanced optical Kerr nonlinearity of MoS <sub>2</sub> on silicon waveguides. <i>Photonics Research</i> , 2015, 3, 206.	3.4	58
132	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. <i>NPG Asia Materials</i> , 2015, 7, e154-e154.	3.8	58
133	Highly thermally conductive polymer nanocomposites based on boron nitride nanosheets decorated with silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 41630-41636.	1.7	58
134	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.	2.6	58
135	In situ observation of the ferroelectric-paraelectric phase transition in a triglycine sulfate single crystal by variable-temperature electrostatic force microscopy. <i>Physical Review B</i> , 2000, 61, 203-206.	1.1	57
136	Core-shell Cu@rGO hybrids filled in epoxy composites with high thermal conduction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 257-265.	2.7	56
137	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.	2.0	56
138	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPb <sub>2</sub> Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27640-27647.	5.2	56
139	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19091-19097.	5.2	55
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