

Xu Jianbin

List of Publications by Year in descending order

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504
papers

26,482
citations

4388

86
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9589

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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.	31.4	731
2	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017, 2, .	17.6	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.	13.7	586
4	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017, 4, .	11.3	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.	10.0	473
6	Near-Infrared Photodetector Based on MoS ₂ /Black Phosphorus Heterojunction. <i>ACS Photonics</i> , 2016, 3, 692-699.	6.6	446
7	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , 2017, 11, 4507-4513.	14.6	435
8	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017, 3, e1700589.	10.3	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.	14.6	407
10	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
11	Soluble and Stable <i>N</i> -Heteropentacenes with High Field-Effect Mobility. <i>Advanced Materials</i> , 2011, 23, 1535-1539.	21.0	334
12	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014, 5, 5162.	12.8	315
13	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2636-2657.	4.1	309
14	The physics and chemistry of graphene-on-surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 4417-4449.	38.1	309
15	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. <i>Small</i> , 2018, 14, e1704044.	10.0	295
16	Electronic Properties of MoS ₂ –WS ₂ Heterostructures Synthesized with Two-Step Lateral Epitaxial Strategy. <i>ACS Nano</i> , 2015, 9, 9868-9876.	14.6	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.	5.6	265
18	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604093.	14.9	265

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19	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
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.	6.7	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.	14.9	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.	10.0	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.	7.8	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, .	7.9	211
25	The Position of Nitrogen in N-Heteropentacenes Matters. <i>Advanced Materials</i> , 2011, 23, 5514-5518.	21.0	210
26	Application of admittance spectroscopy to evaluate carrier mobility in organic charge transport materials. <i>Journal of Applied Physics</i> , 2006, 99, 013706.	2.5	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.	12.7	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.	7.8	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.	14.6	192
30	1T ⁻² Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. <i>Journal of the American Chemical Society</i> , 2018, 140, 8696-8704.	13.7	192
31	Lateral Built-in Potential of Monolayer MoS ₂ /WS ₂ In-Plane Heterostructures by a Shortcut Growth Strategy. <i>Advanced Materials</i> , 2015, 27, 6431-6437.	21.0	191
32	Silver Nanoparticle-Deposited Boron Nitride Nanosheets as Fillers for Polymeric Composites with High Thermal Conductivity. <i>Scientific Reports</i> , 2016, 6, 19394.	3.3	184
33	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25878-25901.	8.0	183
34	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9669-9678.	8.0	183
35	Signature of Intrinsic High-Temperature Ferromagnetism in Cobalt-Doped Zinc Oxide Nanocrystals. <i>Advanced Materials</i> , 2006, 18, 2476-2480.	21.0	178
36	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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37	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , 2021, 373, 1353-1358.	12.6	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.	21.0	173
39	The effect of interfacial state on the thermal conductivity of functionalized Al_2O_3 filled glass fibers reinforced polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 49-55.	7.6	159
40	Learning from Natural Nacre: Constructing Layered Polymer Composites with High Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33001-33010.	8.0	159
41	Evidence of intrinsic ferromagnetism in individual dilute magnetic semiconducting nanostructures. <i>Nature Nanotechnology</i> , 2009, 4, 523-527.	31.5	149
42	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017, 3, e1701186.	10.3	146
43	Highly Thermally Conductive Composite Papers Prepared Based on the Thought of Bioinspired Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15645-15653.	8.0	145
44	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015, 3, 1207-1214.	7.3	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.	12.7	141
46	Facile and Environmentally Friendly Solution-Processed Aluminum Oxide Dielectric for Low-Temperature, High-Performance Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5803-5810.	8.0	139
47	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31248-31255.	8.0	139
48	Heat transfer between two metallic surfaces at small distances. <i>Journal of Applied Physics</i> , 1994, 76, 7209-7216.	2.5	134
49	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016, 28, 5200-5205.	21.0	134
50	The role of solution-processed high- κ gate dielectrics in electrical performance of oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5389.	5.5	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.	6.7	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.	14.6	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.	24.0	124
54	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS_2 Film with Spatial Homogeneity and the Visualization of Grain Boundaries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12073-12081.	8.0	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.	6.7	119
56	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
57	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , 2018, 9, 4909.	12.8	117
58	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
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.	7.6	115
60	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019, 13, 7402-7409.	14.6	115
61	Fused-Ring Electron Acceptor ITIC: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	19.5	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.	17.4	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.	7.8	111
64	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg ²⁺) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017, 27, 1701642.	14.9	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.	4.8	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.	10.0	102
67	High-Performance Graphene Devices on SiO ₂ /Si Substrate Modified by Highly Ordered Self-Assembled Monolayers. <i>Advanced Materials</i> , 2011, 23, 2464-2468.	21.0	101
68	Boron nitride-graphene oxide hybrids for epoxy composites with enhanced thermal conductivity. <i>RSC Advances</i> , 2016, 6, 35847-35854.	3.6	101
69	A Simple Method for Synthesis of High-Quality Millimeter-Scale 1T Transition-Metal Telluride and Near-Field Nano-optical Properties. <i>Advanced Materials</i> , 2017, 29, 1700704.	21.0	101
70	Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/β ² -catenin signaling. <i>Biomaterials</i> , 2017, 145, 33-43.	11.4	100
71	Structural evidence of secondary phase segregation from the Raman vibrational modes in Zn _{1-x} CoxO (<math>x \leq 0.6</math>). <i>Applied Physics Letters</i> , 2007, 91, .	3.3	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.	2.6	98

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73	High-responsivity graphene-on-silicon slot waveguide photodetectors. <i>Nanoscale</i> , 2016, 8, 13206-13211.	5.6	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.	7.8	98
75	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. <i>Nanotechnology</i> , 2008, 19, 455702.	2.6	96
76	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
77	Graphene Based Non-Volatile Memory Devices. <i>Advanced Materials</i> , 2014, 26, 5496-5503.	21.0	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.	21.0	95
79	Quantitative Analysis of Graphene Doping by Organic Molecular Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7596-7602.	3.1	94
80	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CH ₃ NH ₃ PbI ₃ perovskite film. <i>Nature Communications</i> , 2016, 7, 13503.	12.8	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.	7.6	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.	3.7	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.	9.1	92
84	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
85	Raman spectroscopic study of oxidation and phase transition in W ₁₈ O ₄₉ nanowires. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 176-180.	2.5	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.	13.8	89
87	High-Performance Broadband Floating-Base Bipolar Phototransistor Based on WSe ₂ /BP/MoS ₂ Heterostructure. <i>ACS Photonics</i> , 2017, 4, 823-829.	6.6	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.	5.5	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.	10.3	88
90	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , 2019, 59, 619-625.	16.0	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.	8.2	87
92	Molybdenum disulfide-based amplified fluorescence DNA detection using hybridization chain reactions. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2395-2401.	5.8	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.	5.2	87
94	Emission enhancement from metallodielectric-capped ZnO films. <i>Journal of Applied Physics</i> , 2006, 100, 026103.	2.5	86
95	Monolayer Field-Effect Transistors of Nonplanar Organic Semiconductors with Brickwork Arrangement. <i>Advanced Materials</i> , 2015, 27, 3418-3423.	21.0	85
96	Aggregation-based growth and magnetic properties of inhomogeneous Cu-doped ZnO nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 212502.	3.3	82
97	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , 2018, 14, e1803350.	10.0	82
98	Hollow SnO ₂ @Co ₃ O ₄ 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.	7.8	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.	11.4	77
100	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	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.	7.8	76
102	N-heteroquinones: quadruple weak hydrogen bonds and n-channel transistors. <i>Chemical Communications</i> , 2010, 46, 2977.	4.1	76
103	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016, 6, 32327.	3.3	76
104	Flexible graphene electrothermal films made from electrochemically exfoliated graphite. <i>Journal of Materials Science</i> , 2016, 51, 1043-1051.	3.7	76
105	Large-Grain Formamidinium PbI ₃ for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. <i>Advanced Energy Materials</i> , 2017, 7, 1601882.	19.5	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.	2.9	75
107	Textured CH ₃ NH ₃ PbI ₃ thin film with enhanced stability for high performance perovskite solar cells. <i>Nano Energy</i> , 2017, 33, 485-496.	16.0	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.	19.5	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.	14.9	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.	5.6	69
111	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
112	Oxygen gettering and oxide degradation during annealing of Si/SiO ₂ /Si structures. <i>Journal of Applied Physics</i> , 1995, 77, 175-186.	2.5	68
113	Performance and Stability Improvement of P3HT:PCBM-Based Solar Cells by Thermally Evaporated Chromium Oxide (CrO _x) Interfacial Layer. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2699-2702.	8.0	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.	3.1	67
115	Induced Crystallization of Rubrene in Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 3242-3246.	21.0	67
116	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
117	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
118	Structure control and characterization of SrBi ₂ Ta ₂ O ₉ thin films by a modified annealing method. <i>Applied Physics Letters</i> , 1999, 74, 1221-1223.	3.3	65
119	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3303-3310.	6.2	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.	16.0	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.	17.4	64
122	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
123	A Meaningful Analogue of Pentacene: Charge Transport, Polymorphs, and Electronic Structures of Dihydrodiazapentacene. <i>Chemistry of Materials</i> , 2009, 21, 1400-1405.	6.7	63
124	Fibrous Epoxy Substrate with High Thermal Conductivity and Low Dielectric Property for Flexible Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500485.	5.1	63
125	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	21.0	62
126	Low-Voltage Organic Field-Effect Transistors (OFETs) with Solution-Processed Metal-Oxide as Gate Dielectric. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4662-4667.	8.0	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 & Interfaces</i> , 2015, 7, 14720-14725.	8.0	60
128	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	12.8	60
129	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019, 10, 5589.	12.8	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.	17.3	59
131	Enhanced optical Kerr nonlinearity of MoS ₂ on silicon waveguides. <i>Photonics Research</i> , 2015, 3, 206.	7.0	58
132	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. <i>NPG Asia Materials</i> , 2015, 7, e154-e154.	7.9	58
133	Highly thermally conductive polymer nanocomposites based on boron nitride nanosheets decorated with silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 41630-41636.	3.6	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.	5.1	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.	3.2	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.	5.5	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.	3.1	56
138	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPb ₂ Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27640-27647.	10.3	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.	10.3	55
140	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. <i>Advanced Materials</i> , 2018, 30, e1801562.	21.0	55
141	Recent progress in thermally conductive polymer/boron nitride composites by constructing three-dimensional networks. <i>Composites Communications</i> , 2021, 24, 100650.	6.3	55
142	Radial ZnO nanowire nucleation on amorphous carbons. <i>Applied Physics Letters</i> , 2005, 87, 183109.	3.3	53
143	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	4.3	52
144	Identifying the functional groups effect on passivating perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 1726-1734.	9.0	52

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