

Jian-Bin Xu

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. <i>Nature Photonics</i> , 2013, 7, 888-891.	31.4	731
2	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
3	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017, 4, .	11.3	476
4	Near-Infrared Photodetector Based on MoS ₂ /Black Phosphorus Heterojunction. <i>ACS Photonics</i> , 2016, 3, 692-699.	6.6	446
5	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , 2017, 11, 4507-4513.	14.6	435
6	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017, 3, e1700589.	10.3	419
7	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014, 5, 5162.	12.8	315
8	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
9	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604093.	14.9	265
10	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
11	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
12	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
13	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
14	1T [±] 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
15	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
16	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25878-25901.	8.0	183
17	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
18	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , 2021, 373, 1353-1358.	12.6	177

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19	Electron Mobility Exceeding $10^2 \text{ cm}^2/\text{Vs}$ and Band-Like Charge Transport in Solution-Processed n-Channel Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2016, 28, 5276-5283.	21.0	173
20	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
21	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015, 3, 1207-1214.	7.3	141
22	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
23	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016, 28, 5200-5205.	21.0	134
24	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
25	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
26	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , 2018, 9, 4909.	12.8	117
27	Fused-Ring Electron Acceptor ITIC-Th: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	19.5	112
28	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
29	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
30	A Simple Method for Synthesis of High-Quality Millimeter-Scale 1 Tm^2 Transition-Metal Telluride and Near-Field Nano-optical Properties. <i>Advanced Materials</i> , 2017, 29, 1700704.	21.0	101
31	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
32	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite film. <i>Nature Communications</i> , 2016, 7, 13503.	12.8	94
33	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
34	High-Performance Broadband Floating-Base Bipolar Phototransistor Based on $\text{WSe}_2/\text{BP}/\text{MoS}_2$ Heterostructure. <i>ACS Photonics</i> , 2017, 4, 823-829.	6.6	89
35	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
36	Monolayer Field-Effect Transistors of Nonplanar Organic Semiconductors with Brickwork Arrangement. <i>Advanced Materials</i> , 2015, 27, 3418-3423.	21.0	85

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37	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , 2018, 14, e1803350.	10.0	82
38	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
39	Large-Grain Formamidinium Pbl ₃ for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. <i>Advanced Energy Materials</i> , 2017, 7, 1601882.	19.5	76
40	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
41	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
42	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. <i>Advanced Functional Materials</i> , 2017, 27, 1603884.	14.9	73
43	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
44	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
45	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
46	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
47	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
48	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
49	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	21.0	62
50	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
51	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019, 10, 5589.	12.8	59
52	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
53	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
54	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

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55	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
56	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
57	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning. <i>Advanced Science</i> , 2022, 9, e2200578.	11.2	51
58	Growth of Large-Scale, Large-Size, Few-Layered In_2MoO_3 on SiO_2 and Its Photoresponse Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5543-5549.	8.0	50
59	Single crystal n-channel field effect transistors from solution-processed silylethynylated tetraazapentacene. <i>Journal of Materials Chemistry</i> , 2011, 21, 15201.	6.7	48
60	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
61	Synthesis and Characterization of Metallic Janus MoSH Monolayer. <i>ACS Nano</i> , 2021, 15, 20319-20331.	14.6	47
62	Graphene photodetector integrated on silicon nitride waveguide. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	46
63	Controlled Electrochemical Deposition of Large-Area MoS_2 on Graphene for High-Responsivity Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1603998.	14.9	45
64	Low-temperature facile solution-processed gate dielectric for combustion derived oxide thin film transistors. <i>RSC Advances</i> , 2014, 4, 54729-54739.	3.6	44
65	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
66	Hybrid 2D-Material Photonics with Bound States in the Continuum. <i>Advanced Optical Materials</i> , 2019, 7, 1901306.	7.3	43
67	The influence of gate dielectrics on a high-mobility n-type conjugated polymer in organic thin-film transistors. <i>Applied Physics Letters</i> , 2012, 100, 033301.	3.3	41
68	Graphene Based Terahertz Light Modulator in Total Internal Reflection Geometry. <i>Advanced Optical Materials</i> , 2017, 5, 1600697.	7.3	41
69	Ultra-Low Work Function Transparent Electrodes Achieved by Naturally Occurring Biomaterials for Organic Optoelectronic Devices. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400215.	3.7	40
70	Nanoantenna-Sandwiched Graphene with Giant Spectral Tuning in the Visible-Near-Infrared Region. <i>Advanced Optical Materials</i> , 2014, 2, 162-170.	7.3	39
71	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
72	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

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73	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
74	High-Quality Monolithic Graphene Films via Laterally Stitched Growth and Structural Repair of Isolated Flakes for Transparent Electronics. <i>Chemistry of Materials</i> , 2017, 29, 7808-7815.	6.7	38
75	Graphene/In ₂ S ₃ van der Waals Heterostructure for Ultrasensitive Photodetection. <i>ACS Photonics</i> , 2018, 5, 4912-4919.	6.6	36
76	van der Waals Transition-Metal Oxide for Visible-MIR Broadband Photodetection via Intercalation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15741-15747.	8.0	36
77	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
78	High-speed infrared two-dimensional platinum diselenide photodetectors. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	33
79	Efficient Slantwise Aligned Dionâ€“Jacobson Phase Perovskite Solar Cells Based on Transâ€“1,4â€“Cyclohexanediamine. <i>Small</i> , 2020, 16, e2003098.	10.0	33
80	Facile passivation of solution-processed InZnO thin-film transistors by octadecylphosphonic acid self-assembled monolayers at room temperature. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	32
81	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
82	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. <i>Nano Research</i> , 2017, 10, 1336-1344.	10.4	30
83	Spectroscopic Study of Electron and Hole Polarons in a High-Mobility Donorâ€“Acceptor Conjugated Copolymer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6835-6841.	3.1	29
84	Controllable modulation of the electronic properties of graphene and silicene by interface engineering and pressure. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4869.	5.5	28
85	Ternary Bulk Heterojunction Photovoltaic Cells Composed of Small Molecule Donor Additive as Cascade Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20094-20099.	3.1	28
86	Uncovering the Electronâ€“Phonon Interplay and Dynamical Energyâ€“Dissipation Mechanisms of Hot Carriers in Hybrid Lead Halide Perovskites. <i>Advanced Energy Materials</i> , 2021, 11, 2003071.	19.5	28
87	Efficient Electronic Transport in Partially Disordered Co ₃ O ₄ Nanosheets for Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 3071-3081.	5.1	27
88	Deterministic and Etchingâ€“Free Transfer of Largeâ€“Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. <i>Advanced Materials Technologies</i> , 2018, 3, 1700282.	5.8	26
89	An Acoustic Metaâ€“Skin Insulator. <i>Advanced Materials</i> , 2020, 32, e2002251.	21.0	26
90	Quantitative Analysis of Scattering Mechanisms in Highly Crystalline CVD MoS ₂ through a Self-Limited Growth Strategy by Interface Engineering. <i>Small</i> , 2016, 12, 438-445.	10.0	25

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91	Control over Light Soaking Effect in All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2101287.	14.9	25
92	Broadside Nanoantennas Made of Single Silver Nanorods. <i>ACS Nano</i> , 2018, 12, 1720-1731.	14.6	24
93	Enhanced Performance of Polymeric Bulk Heterojunction Solar Cells via Molecular Doping with TFSA. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13415-13421.	8.0	23
94	Near-Infrared Photoresponse of One-Sided Abrupt MAPbI ₃ /TiO ₂ Heterojunction through a Tunneling Process. <i>Advanced Functional Materials</i> , 2016, 26, 8545-8554.	14.9	23
95	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
96	Enhanced Electrochemical Stability by Alkyldiammonium in Dion-Jacobson Perovskite toward Ultrastable Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100243.	7.3	21
97	Vacuum electron emission with low turn-on electric field from hydrogenated amorphous carbon thin films. <i>Applied Physics Letters</i> , 2001, 79, 141-143.	3.3	20
98	Ternary blend bulk heterojunction photovoltaic cells with an ambipolar small molecule as the cascade material. <i>RSC Advances</i> , 2014, 4, 1087-1092.	3.6	20
99	Induced crystallization of rubrene with diazapentacene as the template. <i>Journal of Materials Chemistry</i> , 2012, 22, 4396.	6.7	19
100	Facet-Dependent Property of Sequentially Deposited Perovskite Thin Films: Chemical Origin and Self-Annihilation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32366-32375.	8.0	19
101	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
102	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
103	Cascade Type-II 2D/3D Perovskite Heterojunctions for Enhanced Stability and Photovoltaic Efficiency. <i>Solar Rrl</i> , 2020, 4, 2000282.	5.8	18
104	Derivatization of pristine graphene for bulk heterojunction polymeric photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 16723.	6.7	16
105	Variable electronic properties of lateral phosphorene-graphene heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31685-31692.	2.8	16
106	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
107	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	15
108	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

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109	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer JAA Aggregate Organic Crystal with Graphene. <i>Advanced Optical Materials</i> , 2021, 9, 2100158.	7.3	15
110	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
111	The compatibility of methylammonium and formamidinium in mixed cation perovskite: the optoelectronic and stability properties. <i>Nanotechnology</i> , 2021, 32, 075406.	2.6	14
112	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
113	Low-voltage flexible pentacene thin film transistors with a solution-processed dielectric and modified copper source-drain electrodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2585.	5.5	12
114	Controlled Synthesis of MoxW1-xTe2 Atomic Layers with Emergent Quantum States. <i>ACS Nano</i> , 2021, 15, 11526-11534.	14.6	12
115	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
116	Unusual electronic and magnetic properties of lateral phosphorene-WSe ₂ heterostructures. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6657-6665.	5.5	10
117	Improving the Quality of the $\text{Si/Cu}_2\text{O}$ Interface by Methyl-Group Passivation and Its Application in Photovoltaic Devices. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600833.	3.7	9
118	Defect Etching of Phase-Transition-Assisted CVD-Grown 2H-MoTe_2 . <i>Small</i> , 2021, 17, e21021460.0	6.0	9
119	Configuration-dependent electronic and magnetic properties of graphene monolayers and nanoribbons functionalized with aryl groups. <i>Journal of Chemical Physics</i> , 2014, 140, 044712.	3.0	8
120	Enhanced Photoresponse in Interfacial Gated Graphene Phototransistor With Ultrathin Al_2O_3 Dielectric. <i>IEEE Electron Device Letters</i> , 2018, 39, 987-990.	3.9	8
121	Observation of Strong $\langle i \rangle$ -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
122	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
123	Influence of Annealing on Raman Spectrum of Graphene in Different Gaseous Environments. <i>Spectroscopy Letters</i> , 2014, 47, 465-470.	1.0	7
124	A novel solid-to-solid electrocatalysis of graphene oxide reduction on copper electrode. <i>RSC Advances</i> , 2015, 5, 87987-87992.	3.6	7
125	Stable field emission with low threshold field from amorphous carbon films due to layer-by-layer hydrogen plasma annealing. <i>Journal of Applied Physics</i> , 2002, 91, 5434-5437.	2.5	6
126	Rapid growth of high quality perovskite crystal by solvent mixing. <i>CrystEngComm</i> , 2016, 18, 1184-1189.	2.6	6

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127	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. ACS Applied Electronic Materials, 2020, 2, 2888-2894.	4.3	6
128	Towards Scalable Fabrications and Applications of 2D Layered Material-based Vertical and Lateral Heterostructures. Chemical Research in Chinese Universities, 2020, 36, 525-550.	2.6	6
129	Suppressed Phase Segregation in High-Humidity-Processed Dion-Jacobson Perovskite Solar Cells Toward High Efficiency and Stability. Solar Rrl, 2021, 5, 2100555.	5.8	6
130	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. ACS Photonics, 2021, 8, 3583-3590.	6.6	6
131	Induced Crystallization of Rubrene in Thin-Film Transistors (Adv. Mater. 30/2010). Advanced Materials, 2010, 22, .	21.0	4
132	Thermal and illumination effects on a PbI_2 nanoplate and its transformation to $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite. CrystEngComm, 2019, 21, 736-740.	2.6	4
133	40 GHz waveguide-integrated two-dimensional palladium diselenide photodetectors. Applied Physics Letters, 2022, 120, .	3.3	4
134	Synthesis of Multishell Carbon Nanotube Composites via Template Method. Chinese Journal of Chemical Physics, 2011, 24, 206-210.	1.3	2
135	Study of the electron standing wave states in scanning tunneling spectroscopy of Si(111) surface. Surface and Interface Analysis, 2013, 45, 962-967.	1.8	2
136	Perovskite Solar Cells: Large-Grain Formamidinium PbI_3 for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange (Adv. Energy Mater. 12/2017). Advanced Energy Materials, 2017, 7, .	19.5	2
137	Self-assembled dipoles of C_6O -carborane on gate oxide tuning charge carriers in organic field effect transistors. Journal of Materials Chemistry C, 2022, 10, 2690-2695.	5.5	2
138	Polarization dependent loss of graphene-on-silicon waveguides. , 2013, , .		1
139	Phonon Polaritons: Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides (Adv. Mater. 13/2018). Advanced Materials, 2018, 30, 1870091.	21.0	1
140	VERY LOW THRESHOLD ELECTRON FIELD EMISSION FROM AMORPHOUS CARBON FILMS WITH HYDROGEN DILUTION. International Journal of Modern Physics B, 2002, 16, 988-992.	2.0	0
141	Stability Improvement of Polymer Based Solar Cells by Thermally Evaporated Cr_2O_3 Interfacial Layer. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
142	P-N Junction Formation in Electron-beam Irradiated Graphene Step. Materials Research Society Symposia Proceedings, 2012, 1407, 224.	0.1	0
143	Flexible vertical field-effect transistor based on graphene/silicon heterostructure with ion-gel gate. , 2017, , .		0
144	Hybrid Integration of Black Phosphorus- WSe_2 Heterojunction Photodetector on Silicon Waveguide. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
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