

Jun-Liang Yang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Organic additives in all-inorganic perovskite solar cells and modules: from moisture endurance to enhanced efficiency and operational stability. <i>Journal of Energy Chemistry</i> , 2022, 67, 361-390.	12.9	21
2	Progress on growth of metal halide perovskites by vapor-phase synthesis and their applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 073001.	2.8	10
3	Three-dimensional pyramidal CsPbBr ₃ /C8BTBT film heterojunction photodetectors with high responsivity and long-term stability. <i>Organic Electronics</i> , 2022, 101, 106409.	2.6	9
4	Modulation of Vertical Component Distribution for Large-Area Thick-Film Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100838.	5.8	9
5	Sparkling hot spots in perovskite solar cells under reverse bias. <i>ChemPhysMater</i> , 2022, 1, 71-76.	2.8	7
6	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3314-3320.	10.3	17
7	A biopolymer-gated ionotronic junctionless oxide transistor array for spatiotemporal pain-perception emulation in nociceptor network. <i>Nanoscale</i> , 2022, 14, 2316-2326.	5.6	52
8	High-performance CdS@CsPbBr ₃ core-shell microwire heterostructure photodetector. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 194002.	2.8	6
9	Structures, Properties, and Device Applications for [1]Benzothieno[3,2-b]Benzothiophene Derivatives. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	26
10	Fully Roll-to-Roll Processed Efficient Perovskite Solar Cells via Precise Control on the Morphology of Pbl ₂ :Csl Layer. <i>Nano-Micro Letters</i> , 2022, 14, 79.	27.0	21
11	Artificial Vision Adaption Mimicked by an Optoelectrical In ₂ O ₃ Transistor Array. <i>Nano Letters</i> , 2022, 22, 3372-3379.	9.1	56
12	Bionic Scarfskin-Inspired Hierarchy Configuration toward Tunable Microwave-Absorbing Performance. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	8.0	4
13	Flexible Perovskite Solar Cells: From Materials and Device Architectures to Applications. <i>ACS Energy Letters</i> , 2022, 7, 1412-1445.	17.4	54
14	Recent advances in printed liquid metals for wearable healthcare sensors: a review. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 283002.	2.8	11
15	Recent progresses of organic photonic synaptic transistors. <i>Flexible and Printed Electronics</i> , 2022, 7, 024002.	2.7	2
16	Organic electrochemical transistors toward synaptic electronics. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 304006.	2.8	10
17	A Rolling-Mode Al/CsPbBr ₃ Schottky Junction Direct-Current Triboelectric Nanogenerator for Harvesting Mechanical and Solar Energy. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	35
18	Vertical Phase Separation Structure for High-Performance Organic Thin-Film Transistors: Mechanism, Optimization Strategy, and Large-Area Fabrication toward Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	29

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19	Restricting the Formation of Pb–Pb Dimer via Surface Pb Site Passivation for Enhancing the Light Stability of Perovskite. <i>Small</i> , 2022, 18, e2201831.	10.0	15
20	Printable and Wearable Graphene-Based Strain Sensor With High Sensitivity for Human Motion Monitoring. <i>IEEE Sensors Journal</i> , 2022, 22, 13937-13944.	4.7	7
21	Printable ion-gel-gated In ₂ O ₃ synaptic transistor array for neuro-inspired memory. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	24
22	Recent advances in field-effect transistors for heavy metal ion detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15965-15991.	2.2	1
23	Effects of doping concentration and annealing temperatures on the ferroelectric memory properties of yttrium doped HfO ₂ . <i>Journal Physics D: Applied Physics</i> , 2022, 55, 394001.	2.8	3
24	First principles prediction of the carrier mobilities and optical properties of strained lead free perovskite Cs ₂ SnX ₆ (X=Cl, Br). <i>Solid State Communications</i> , 2022, 353, 114868.	1.9	0
25	A High-Performance and Long-Term Air-Stable CH ₃ NH ₃ PbI ₃ /C8BTBT Heterojunction Photodetector Fabricated via Chemical Vapor Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000479.	2.4	11
26	Revealing the microstructure evolution of inorganic CsPbI ₂ Br perovskite via synchrotron radiation grazing incidence X-ray diffraction. <i>Nano Select</i> , 2021, 2, 932-938.	3.7	5
27	6.2: <i>Invited Paper:</i> Wearable and Printable Sensors for Human Healthcare Monitoring. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 39-39.	0.3	0
28	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 183001.	2.8	158
29	Photoelectric Visual Adaptation Based on OD-CsPbBr ₃ •QuantumDots/2D-MoS ₂ Mixed-Dimensional Heterojunction Transistor. <i>Advanced Functional Materials</i> , 2021, 31, 2010655.	14.9	93
30	Angular dependent magnetoresistance in organic spin valves. <i>Results in Physics</i> , 2021, 22, 103963.	4.1	5
31	Non-Volatile In-Ga-Zn-O Transistors for Neuromorphic Computing. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	6
32	Wearable CNT/Ti ₃ C ₂ T _x MXene/PDMS composite strain sensor with enhanced stability for real-time human healthcare monitoring. <i>Nano Research</i> , 2021, 14, 2875-2883.	10.4	114
33	Creating a Dual-Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. <i>Small</i> , 2021, 17, e2102368.	10.0	44
34	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	1.8	49
35	Field-driven modulating of In-Sn-O synaptic transistors with a precisely controlled weight update. <i>Applied Materials Today</i> , 2021, 23, 101024.	4.3	5
36	Layer-by-layer slot-die coated high-efficiency organic solar cells processed using twin boiling point solvents under ambient condition. <i>Nano Research</i> , 2021, 14, 4236-4242.	10.4	28

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37	Can Vacuum Deposition Apply to Bismuth-Doped Bi^{3+} -CsPbI ₃ Perovskite? Revealing the Role of Bi ³⁺ in the Formation of Black Phase. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6927-6933.	4.6	5
38	Recent Advances in Flexible Organic Synaptic Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2100336.	5.1	43
39	Interfacial modification for high performance photodetector based on perovskite. , 2021, , .		0
40	Serpentine Co _x Ni _{3-x} Ge ₂ O ₅ (OH) ₄ nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118184.	20.2	28
41	The influence of electrode for electroluminescence devices based on all-inorganic halide perovskite CsPbBr ₃ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 065002.	1.8	21
42	Flexible Planar Heterojunction Perovskite Solar Cells Fabricated via Sequential Roll-to-Roll Microgravure Printing and Slot-Die Coating Deposition. <i>Solar Rrl</i> , 2020, 4, 1900204.	5.8	47
43	Resistance change of stretchable composites based on inkjet-printed silver nanowires. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 05LT02.	2.8	19
44	The energy band engineering for the high-performance infrared photodetectors constructed by CdTe/MoS ₂ heterojunction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 065004.	1.8	20
45	Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. <i>Flexible and Printed Electronics</i> , 2020, 5, 014006.	2.7	37
46	Washable and flexible screen printed graphene electrode on textiles for wearable healthcare monitoring. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 125402.	2.8	58
47	Side-chain optimization of perylene diimide-thiophene random terpolymer acceptors for enhancing the photovoltaic efficiency of all-polymer solar cells. <i>Organic Electronics</i> , 2020, 78, 105616.	2.6	9
48	A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. <i>Advanced Materials</i> , 2020, 32, e1906171.	21.0	135
49	Band alignment engineering: ultrabroadband photodetection with SnX ₂ (X = S, Se)/ZnS heterostructures. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 115703.	1.8	15
50	A 2.16 eV bandgap polymer donor gives 16% power conversion efficiency. <i>Science Bulletin</i> , 2020, 65, 179-181.	9.0	75
51	Efficient organic solar cells with the active layer fabricated from glovebox to ambient condition. <i>Applied Physics Letters</i> , 2020, 117, 133301.	3.3	11
52	The effect of air exposure on device performance of flexible C8-BTBT organic thin-film transistors with hygroscopic insulators. <i>Science China Materials</i> , 2020, 63, 2551-2559.	6.3	6
53	Vertical OD-Perovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectric-Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. <i>Small</i> , 2020, 16, e2005217.	10.0	87
54	Two-Step Processed Efficient Potassium and Cesium-Alloyed Quaternary Cations Perovskite Solar Cells. <i>Synthetic Metals</i> , 2020, 269, 116564.	3.9	6

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55	Exploring the Coexistence Mechanism of CsPb ₂ Br ₅ and CsPbBr ₃ Based on the Competitive Phase Diagram. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23052-23058.	3.1	35
56	Improving Stability of Lead Halide Perovskite via PbF ₂ Layer Covering. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6266-6272.	4.6	13
57	γ-ray Radiation on Flexible Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7318-7324.	5.1	27
58	Neuromorphic Photoelectric Devices: Vertical OD-Peroovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectric Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics (Small 45/2020). <i>Small</i> , 2020, 16, 2070244.	10.0	2
59	Optoelectronic InGaZnO Memtransistors for Artificial Vision System. <i>Advanced Functional Materials</i> , 2020, 30, 2002325.	14.9	57
60	Hardware implementation of photoelectrically modulated dendritic arithmetic and spike-timing-dependent plasticity enabled by an ion-coupling gate-tunable vertical OD-perovskite/2D-MoS ₂ hybrid-dimensional van der Waals heterostructure. <i>Nanoscale</i> , 2020, 12, 21798-21811.	5.6	51
61	Dual Cross-Linked Ion-Based Temperature-Responsive Conductive Hydrogels with Multiple Sensors and Steady Electrocardiogram Monitoring. <i>Chemistry of Materials</i> , 2020, 32, 7670-7678.	6.7	54
62	Polymer-Decorated 2D MoS ₂ Synaptic Transistors for Biological Bipolar Metaplasticities Emulation*. <i>Chinese Physics Letters</i> , 2020, 37, 088501.	3.3	30
63	Decreasing energy loss and optimizing band alignment for high performance CsPbI ₃ solar cells through guanidine hydrobromide post-treatment. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10346-10353.	10.3	40
64	High-performance and flexible CsPbBr ₃ UV-vis photodetectors fabricated via chemical vapor deposition. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 354002.	2.8	11
65	Recent progresses on SnO ₂ anode materials for sodium storage. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 353001.	2.8	18
66	Efficient and stable perovskite-silicon two-terminal tandem solar cells. <i>Rare Metals</i> , 2020, 39, 745-747.	7.1	25
67	Tunable left-hand characteristics in multi-nested square-split-ring enabled metamaterials. <i>Journal of Central South University</i> , 2020, 27, 1235-1246.	3.0	18
68	Solution-processed perovskite solar cells. <i>Journal of Central South University</i> , 2020, 27, 1104-1133.	3.0	34
69	Multi-gate-driven In-Ga-Zn-O memtransistors with a Sub-60 mV/decade subthreshold swing for neuromorphic and memlogic applications. <i>Organic Electronics</i> , 2020, 84, 105810.	2.6	13
70	High-performance Photodetector Based on $\ln_2\text{Se}_3/\text{SnO}_2/\text{CsPbBr}_3/\text{SnO}_2/\text{In}_2\text{Se}_3$		

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73	Theoretical study on the effect of the optical properties and electronic structure for the Bi-doped CsPbBr ₃ . Journal of Physics Condensed Matter, 2020, 32, 205504.	1.8	27
74	A Facile Airâ€Retreatment Strategy for Efficient Inverted Perovskite Solar Cells. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000069.	2.4	4
75	Fully doctor-bladed efficient organic solar cells processed under ambient condition. Organic Electronics, 2020, 82, 105725.	2.6	15
76	Solution-processed ultra-flexible C8-BTBT organic thin-film transistors with the corrected mobility over 18Åcm ² /(V s). Science Bulletin, 2020, 65, 791-795.	9.0	27
77	Large-area perovskite solar cells. Science Bulletin, 2020, 65, 872-875.	9.0	34
78	Two-step processed efficient perovskite solar cells via improving perovskite/PTAA interface using solvent engineering in Pbl ₂ precursor*. Chinese Physics B, 2020, 29, 048801.	1.4	12
79	Fully Doctor-bladed efficient perovskite solar cells in ambient condition via composition engineering. Organic Electronics, 2020, 83, 105736.	2.6	18
80	Effects of Components Modulation on the Type of Band Alignments for Pbl ₂ /WS ₂ van der Waals Heterostructure. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000016.	2.4	23
81	Theoretical prediction of double perovskite Cs ₂ Ag _x Cu _{1-x} In _y Tb _{1-y} Cl ₆ for infrared detection. Journal Physics D: Applied Physics, 2020, 53, 265302.	2.8	29
82	Large-scale Roll-to-Roll Micro-gravure Printed Flexible PBDB-T/IT-M Bulk Heterojunction Photodetectors. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	7
83	Fully slot-die-coated perovskite solar cells in ambient condition. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	24
84	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. Science China Chemistry, 2020, 63, 1159-1168.	8.2	92
85	Interfacial electronic properties of 2D/3D (PtSe ₂ /CsPbX ₃) perovskite heterostructure. Journal of Physics Condensed Matter, 2020, 32, 445004.	1.8	4
86	Screen printed silver nanowire and graphene oxide hybrid transparent electrodes for long-term electrocardiography monitoring. Journal Physics D: Applied Physics, 2019, 52, 455401.	2.8	59
87	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. Advanced Functional Materials, 2019, 29, 1904020.	14.9	140
88	Facile precursor stoichiometry engineering for efficient inverted perovskite solar cells without any dopants. Organic Electronics, 2019, 75, 105396.	2.6	12
89	CsPb(I Br ^{1/2}) ₃ solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
90	Rhenium Diselenide Anchored on Reduced Graphene Oxide as Anode with Cyclic Stability for Potassiumâ€Ion Battery. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900329.	2.4	18

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91	The efficient and non-hysteresis inverted non-fullerenes/CH ₃ NH ₃ PbI ₃ planar solar cells. <i>Solar Energy</i> , 2019, 189, 307-313.	6.1	16
92	Broadband photodetectors based on topological insulator Bi ₂ Se ₃ nanowire with enhanced performance by strain modulation effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 114, 113620.	2.7	8
93	Saturated antisolvent pressure induced perylene diimide nanowires with high degree of electron delocalization. <i>Organic Electronics</i> , 2019, 75, 105382.	2.6	1
94	Adaptive Motion Artifact Reduction Based on Empirical Wavelet Transform and Wavelet Thresholding for the Non-Contact ECG Monitoring Systems. <i>Sensors</i> , 2019, 19, 2916.	3.8	47
95	High-Performance Flexible Perovskite Solar Cells via Precise Control of Electron Transport Layer. <i>Advanced Energy Materials</i> , 2019, 9, 1901419.	19.5	167
96	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. <i>Nano Energy</i> , 2019, 66, 104095.	16.0	100
97	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48095-48102.	8.0	30
98	3D Printed Polyvinyl Alcohol Tablets with Multiple Release Profiles. <i>Scientific Reports</i> , 2019, 9, 12487.	3.3	38
99	Thin-film growth behavior of non-planar vanadium oxide phthalocyanine*. <i>Chinese Physics B</i> , 2019, 28, 088101.	1.4	8
100	Zn-Doped Cu(100) facet with efficient catalytic ability for the CO ₂ electroreduction to ethylene. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21341-21348.	2.8	25
101	Deep-ultraviolet SnO ₂ nanowire phototransistors with an ultrahigh responsivity. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	12
102	Screen printed graphene electrodes on textile for wearable electrocardiogram monitoring. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	52
103	Roll-to-roll printed stable and thickness-independent ZnO:PEI composite electron transport layer for inverted organic solar cells. <i>Solar Energy</i> , 2019, 193, 102-110.	6.1	49
104	Near-infrared light-responsive hydrogels <i>via</i> peroxide-decorated MXene-initiated polymerization. <i>Chemical Science</i> , 2019, 10, 10765-10771.	7.4	70
105	2D electric-double-layer phototransistor for photoelectronic and spatiotemporal hybrid neuromorphic integration. <i>Nanoscale</i> , 2019, 11, 1360-1369.	5.6	195
106	Proton-coupled electron-coupled MoS ₂ synaptic transistors with a natural renewable biopolymer neurotransmitter for brain-inspired neuromorphic learning. <i>Journal of Materials Chemistry C</i> , 2019, 7, 682-691.	5.5	69
107	High-performance wide-bandgap copolymers with dithieno[3,2- <i>b</i> :2',3'- <i>d'</i>]pyridin-5(4- <i>H</i>)-one units. <i>Materials Chemistry Frontiers</i> , 2019, 3, 399-402.	5.9	18
108	Mesoporous Carbon-Coated Bismuth Nanorods as Anode for Potassium-Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900209.	2.4	47

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109	First-principles investigations of electronic and optical properties in the MoS ₂ /CsPbBr ₃ heterostructure. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109060.	4.0	39
110	Transparent triboelectric sensor arrays using gravure printed silver nanowire electrodes. <i>Applied Physics Express</i> , 2019, 12, 066503.	2.4	20
111	Radiation tolerance of perovskite solar cells under gamma ray. <i>Organic Electronics</i> , 2019, 71, 79-84.	2.6	40
112	Interfacial charge behavior modulation in 2D/3D perovskite heterostructure for potential high-performance solar cells. <i>Nano Energy</i> , 2019, 59, 715-720.	16.0	108
113	Piezo-phototronic enhanced photoresponsivity based on single CdTe nanowire photodetector. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	8
114	Fully-printed, flexible cesium-doped triple cation perovskite photodetector. <i>Applied Materials Today</i> , 2019, 15, 389-397.	4.3	41
115	Highly Efficient Perovskite Solar Cells Processed Under Ambient Conditions Using In Situ Substrate-Heating-Assisted Deposition. <i>Solar Rrl</i> , 2019, 3, 1800318.	5.8	37
116	Sub-60 mV per decade switching in ion-gel-gated In-Sn-O transistors with a nano-thick charge trapping layer. <i>Nanoscale</i> , 2019, 11, 21740-21747.	5.6	21
117	A wide-bandgap copolymer donor based on a phenanthridin-6(5 <i>H</i>)-one unit. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2686-2689.	5.9	6
118	Roll-to-roll micro-gravure printed P3HT:PCBM organic solar cells. <i>Flexible and Printed Electronics</i> , 2019, 4, 044007.	2.7	9
119	Interfacial electronic structures of MoO _x /mixed perovskite photodetector. <i>Organic Electronics</i> , 2019, 65, 162-169.	2.6	30
120	High-performance supercapacitor carbon electrode fabricated by large-scale roll-to-roll micro-gravure printing. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 115501.	2.8	17
121	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019, 31, e1804790.	21.0	139
122	All-inorganic perovskite CsPbBr ₃ microstructures growth <i>via</i> chemical vapor deposition for high-performance photodetectors. <i>Nanoscale</i> , 2019, 11, 21386-21393.	5.6	51
123	Large-scale roll-to-roll printed, flexible and stable organic bulk heterojunction photodetector. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	54
124	Printed Thin-Film Transistors: Research from China. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25902-25924.	8.0	65
125	Fully doctor-bladed planar heterojunction perovskite solar cells under ambient condition. <i>Organic Electronics</i> , 2018, 58, 153-158.	2.6	69
126	Layer-dependent transport and optoelectronic property in two-dimensional perovskite: (PEA) ₂ PbI ₄ . <i>Nanoscale</i> , 2018, 10, 8677-8688.	5.6	169

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127	Efficient and stable planar heterojunction perovskite solar cells fabricated under ambient conditions with high humidity. <i>Organic Electronics</i> , 2018, 55, 140-145.	2.6	39
128	Interface engineering of CsPbI ₃ -black phosphorus van der Waals heterostructure. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	67
129	Influence of the number of layers on ultrathin CsSn ₃ perovskite: from electronic structure to carrier mobility. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 105101.	2.8	35
130	Low-temperature Processed, Efficient, and Highly Reproducible Cesium-doped Triple Cation Perovskite Planar Heterojunction Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700209.	5.8	113
131	Simultaneously enhanced durability and performance by employing dopamine copolymerized PEDOT with high work function and water-proofness for inverted perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2311-2318.	5.5	28
132	Enhancing the performance of planar heterojunction perovskite solar cells using stable semiquinone and amine radical modified hole transport layer. <i>Journal of Power Sources</i> , 2018, 390, 134-141.	7.8	25
133	Benefits of fullerene/SnO ₂ bilayers as electron transport layer for efficient planar perovskite solar cells. <i>Organic Electronics</i> , 2018, 58, 294-300.	2.6	26
134	Fast-response and high-responsivity FA MA(100)PbI ₃ photodetectors fabricated via doctor-blading deposition in ambient condition. <i>Organic Electronics</i> , 2018, 52, 190-194.	2.6	23
135	Energy level and thickness control on PEDOT:PSS layer for efficient planar heterojunction perovskite cells. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025110.	2.8	15
136	Functionalized Graphene Oxide Enables a High-Performance Bulk Heterojunction Organic Solar Cell with a Thick Active Layer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6238-6248.	4.6	34
137	Synthesis and properties of tetracyanoquinodimethane derivatives. <i>Heterocyclic Communications</i> , 2018, 24, 249-254.	1.2	4
138	Carbon electrode with conductivity improvement using silver nanowires for high-performance supercapacitor. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	24
139	Highly Efficient, Solution-Processed CsPb ₂ Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. <i>ACS Photonics</i> , 2018, 5, 4104-4110.	6.6	64
140	Enhancing light harvesting and charge transport in organic solar cells via integrating lanthanide-doped upconversion materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 265105.	2.8	8
141	(C ₆ H ₅ CH ₂ NH ₃) ₂ CuBr ₄ : A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. <i>ACS Applied Energy Materials</i> , 2018, 1, 2709-2716.	5.1	73
142	Interfacial Electronic Structures of Photodetectors Based on C8BTBT/Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20959-20967.	8.0	13
143	Unveiling the important role of non-fullerene acceptors crystallinity on optimizing nanomorphology and charge transfer in ternary organic solar cells. <i>Organic Electronics</i> , 2018, 62, 643-652.	2.6	10
144	Coplanar Multigate MoS ₂ Electric-Double-Layer Transistors for Neuromorphic Visual Recognition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25943-25948.	8.0	99

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145	Transient security transistors self-supported on biodegradable natural-polymer membranes for brain-inspired neuromorphic applications. <i>Nanoscale</i> , 2018, 10, 14893-14901.	5.6	90
146	Ferroelectric Polarization in CsPb ₃ /CsSn ₃ Perovskite Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17820-17824.	3.1	11
147	Two-Dimensional van der Waals Heterostructures Constructed via Perovskite (C ₄ H ₉ NH ₃) ₂ XBr ₄ and Black Phosphorus. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4822-4827.	4.6	50
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