Jingjing Chang

List of Publications by Year
in descending order

257 papers	9,660 citations	31902 53 h-index	62479 80 g-index
259 all docs	259 docs citations	259 times ranked	8923 citing authors

#	Article	IF	Citations
1	Lead halideâ€“templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. Science, 2021, 372, 1327-1332.	6.0	351
2	Highâ€Performance Planar Perovskite Solar Cells Using Low Temperature, Solutionâ€“Combustionâ€Based Nickel Oxide Hole Transporting Layer with Efficiency Exceeding 20%. Advanced Energy Materials, 2018, 8, 1703432.	10.2	279
3	A simple and efficient solar cell parameter extraction method from a single current-voltage curve. Journal of Applied Physics, 2011, 110, .	1.1	216
4	Intermolecular Exchange Boosts Efficiency of Airâ€Stable, Carbonâ€Based Allâ€Inorganic Planar CsPbIBr₂ Perovskite Solar Cells to Over 9%. Advanced Energy Materials, 2018, 8, 1802080.	10.2	215
5	Transparent Conductive Oxide-Free Perovskite Solar Cells with PEDOT:PSS as Transparent Electrode. ACS Applied Materials & Interfaces, 2015, 7, 15314-15320.	4.0	201
6	NiO/Perovskite Heterojunction Contact Engineering for Highly Efficient and Stable Perovskite Solar Cells. Advanced Science, 2020, 7, 1903044.	5.6	146
7	Enhancing the photovoltaic performance of planar heterojunction perovskite solar cells by doping the perovskite layer with alkali metal ions. Journal of Materials Chemistry A, 2016, 4, 16546-16552.	5.2	143
8	Boosting the performance of planar heterojunction perovskite solar cell by controlling the precursor purity of perovskite materials. Journal of Materials Chemistry A, 2016, 4, 887-893.	5.2	137
9	Interface engineering of low temperature processed all-inorganic CsPbI2Br perovskite solar cells toward PCE exceeding 14%. Nano Energy, 2019, 60, 583-590.	8.2	135
10	Efficiency enhancement of planar perovskite solar cells by adding zwitterion/LiF double interlayers for electron collection. Nanoscale, 2015, 7, 896-900.	2.8	127
11	Controlled Growth of Largeâ€Area Highâ€Performance Smallâ€Molecule Organic Singleâ€Crystalline Transistors by Slotâ€Die Coating Using A Mixed Solvent System. Advanced Materials, 2013, 25, 6442-6447.	11.1	123
12	Development of Inverted Organic Solar Cells with TiO₂ Interface Layer by Using Low-Temperature Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2013, 5, 713-718.	4.0	115
13	Mixed-solvent-vapor annealing of perovskite for photovoltaic device efficiency enhancement. Nano Energy, 2016, 28, 417-425.	8.2	114
14	Dual-Phase CsPbCl₃â€“Cs₄PbCl₆ Perovskite Films for Self-Powered, Visible-Blind UV Photodetectors with Fast Response. ACS Applied Materials & Interfaces, 2020, 12, 32961-32969.	4.0	114
15	Band Alignment Engineering Towards High Efficiency Carbonâ€Based Inorganic Planar CsPbIBr₂ Perovskite Solar Cells. ChemSusChem, 2019, 12, 2318-2325.	3.6	110
16	High-Efficiency (>14%) and Air-Stable Carbon-Based, All-Inorganic CsPbI₂Br Perovskite Solar Cells through a Top-Seeded Growth Strategy. ACS Energy Letters, 0, , 1500-1510.	8.8	106
17	Light Processing Enables Efficient Carbon-Based, All-Inorganic Planar CsPbIBr₂ Solar Cells with High Photovoltages. ACS Applied Materials & Interfaces, 2019, 11, 2997-3005.	4.0	98
18	Improve the oxide/perovskite heterojunction contact for low temperature high efficiency and stable all-inorganic CsPbI2Br perovskite solar cells. Nano Energy, 2020, 67, 104241.	8.2	97

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19	Stepwise Cyanation of Naphthalene Diimide for n-Channel Field-Effect Transistors. Organic Letters, 2012, 14, 2964-2967.	2.4	92
20	Device simulation of inverted CH3NH3PbI3âˆ’xClx perovskite solar cells based on PCBM electron transport layer and NiO hole transport layer. Solar Energy, 2018, 169, 11-18.	2.9	92
21	Enhanced efficiency and stability of planar perovskite solar cells by introducing amino acid to SnO2/perovskite interface. Journal of Power Sources, 2020, 455, 227974.	4.0	90
22	Modulating crystal growth of formamidiniumâ€"caesium perovskites for over 200 cm2 photovoltaic sub-modules. Nature Energy, 2022, 7, 528-536.	19.8	89
23	Highly Efficient and Stable Planar Perovskite Solar Cells with Modulated Diffusion Passivation Toward High Power Conversion Efficiency and Ultrahigh Fill Factor. Solar Rrl, 2019, 3, 1900293.	3.1	87
24	A Review on Energy Bandâ€Gap Engineering for Perovskite Photovoltaics. Solar Rrl, 2019, 3, 1900304.	3.1	87
25	Enhancing the planar heterojunction perovskite solar cell performance through tuning the precursor ratio. Journal of Materials Chemistry A, 2016, 4, 7943-7949.	5.2	86
26	Improving the efficiency and stability of inverted perovskite solar cells with dopamine-copolymerized PEDOT:PSS as a hole extraction layer. Journal of Materials Chemistry A, 2017, 5, 13817-13822.	5.2	86
27	Effects of organic inorganic hybrid perovskite materials on the electronic properties and morphology of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and the photovoltaic performance of planar perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 15897-15904.	5.2	85
28	Interfacial Voids Trigger Carbon-Based, All-Inorganic CsPbIBr2 Perovskite Solar Cells with Photovoltage Exceeding 1.33ÂV. Nano-Micro Letters, 2020, 12, 87.	14.4	84
29	Aged Precursor Solution toward Low-Temperature Fabrication of Efficient Carbon-Based All-Inorganic Planar CsPbIBr₂ Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 4991-4997.	2.5	83
30	Numerical Simulation of Planar Heterojunction Perovskite Solar Cells Based on SnO₂ Electron Transport Layer. ACS Applied Energy Materials, 2019, 2, 4504-4512.	2.5	83
31	Enhanced efficiency of planar perovskite solar cells via a two-step deposition using DMF as an additive to optimize the crystal growth behavior. Journal of Materials Chemistry A, 2017, 5, 13032-13038.	5.2	82
32	Enhanced planar perovskite solar cell efficiency and stability using a perovskite/PCBM heterojunction formed in one step. Nanoscale, 2018, 10, 3053-3059.	2.8	80
33	Recent progress of twoâ€dimensional lead halide perovskite single crystals: Crystal growth, physical properties, and device applications. EcoMat, 2020, 2, e12036.	6.8	80
34	Bisindeno-annulated pentacenes with exceptionally high photo-stability and ordered molecular packing: simple synthesis by a regio-selective Scholl reaction. Chemical Communications, 2015, 51, 3604-3607.	2.2	78
35	Thiophene-Fused Tetracene Diimide with Low Band Gap and Ambipolar Behavior. Organic Letters, 2011, 13, 5960-5963.	2.4	76
36	Cyanated Diazatetracene Diimides with Ultrahigh Electron Affinity for <i>n</i>-Channel Field Effect Transistors. Organic Letters, 2013, 15, 1194-1197.	2.4	72

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37	Performance Enhancement of Planar Heterojunction Perovskite Solar Cells through Tuning the Doping Properties of Hole-Transporting Materials. ACS Omega, 2017, 2, 326-336.	1.6	72
38	Linear and star-shaped pyrazine-containing acene dicarboximides with high electron-affinity. Organic and Biomolecular Chemistry, 2012, 10, 7045.	1.5	71
39	Dianthraceno[a,e]pentalenes: synthesis, crystallographic structures and applications in organic field-effect transistors. Chemical Communications, 2015, 51, 503-506.	2.2	70
40	Recent advances in resistive random access memory based on lead halide perovskite. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 293-315.	8.5	70
41	Enhanced Planar Perovskite Solar Cell Performance via Contact Passivation of TiO₂/Perovskite Interface with NaCl Doping Approach. ACS Applied Energy Materials, 2018, 1, 3826-3834.	2.5	68
42	Recent Progress of Electrode Materials for Flexible Perovskite Solar Cells. Nano-Micro Letters, 2022, 14, 117.	14.4	68
43	Lowâ€Temperature Solutionâ€Processed ZnO Electron Transport Layer for Highly Efficient and Stable Planar Perovskite Solar Cells with Efficiency Over 20%. Solar Rrl, 2019, 3, 1900096.	3.1	66
44	Boosting performance of perovskite solar cells with Graphene quantum dots decorated SnO2 electron transport layers. Applied Surface Science, 2020, 507, 145099.	3.1	66
45	Enhanced Efficiency and Stability of Allâ€Inorganic CsPbI₂Br Perovskite Solar Cells by Organic and Ionic Mixed Passivation. Advanced Science, 2021, 8, e2101367.	5.6	66
46	Enhanced efficiency and stability of planar perovskite solar cells using SnO2:InCl3 electron transport layer through synergetic doping and passivation approaches. Chemical Engineering Journal, 2021, 407, 127997.	6.6	65
47	Solution processed F doped ZnO (ZnO:F) for thin film transistors and improved stability through co-doping with alkali metals. Journal of Materials Chemistry C, 2015, 3, 1787-1793.	2.7	64
48	Solution-Processed LiF-Doped ZnO Films for High Performance Low Temperature Field Effect Transistors and Inverted Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 6687-6693.	4.0	63
49	Sandwiched electrode buffer for efficient and stable perovskite solar cells with dual back surface fields. Joule, 2021, 5, 2148-2163.	11.7	63
50	Antiaromatic bisindeno-[n]thienoacenes with small singlet biradical characters: syntheses, structures and chain length dependent physical properties. Chemical Science, 2014, 5, 4490-4503.	3.7	62
51	Zâ€Shaped Pentalenoâ€Acene Dimers with High Stability and Small Band Gap. Angewandte Chemie - International Edition, 2016, 55, 2693-2696.	7.2	59
52	Unusual Electronic and Optical Properties of Two-Dimensional Ga₂O₃ Predicted by Density Functional Theory. Journal of Physical Chemistry C, 2018, 122, 24592-24599.	1.5	58
53	Elucidating the Roles of TiCl₄ and PCBM Fullerene Treatment on TiO₂ Electron Transporting Layer for Highly Efficient Planar Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 1044-1053.	1.5	57
54	Synthesis and Characterization of Oxygen-Embedded Quinoidal Pentacene and Nonacene. Journal of the American Chemical Society, 2019, 141, 2169-2176.	6.6	57

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55	Polyelectrolyteâ€Doped SnO₂ as a Tunable Electron Transport Layer for Highâ€Efficiency and Stable Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900336.	3.1	56
56	Efficient bifacial semitransparent perovskite solar cells with silver thin film electrode. Solar Energy Materials and Solar Cells, 2017, 170, 278-286.	3.0	55
57	Disc-like 7, 14-dicyano-ovalene-3,4:10,11-bis(dicarboximide) as a solution-processible n-type semiconductor for air stable field-effect transistors. Chemical Science, 2012, 3, 846-850.	3.7	54
58	Optimizing the Performance of CsPbI3-Based Perovskite Solar Cells via Doping a ZnO Electron Transport Layer Coupled with Interface Engineering. Nano-Micro Letters, 2019, 11, 91.	14.4	54
59	Synchronous Passivation of Defects with Low Formation Energies via Terdentate Anchoring Enabling High Performance Perovskite Solar Cells with Efficiency over 24%. Advanced Functional Materials, 2022, 32, .	7.8	52
60	Hf0.5Zr0.5O2-based ferroelectric memristor with multilevel storage potential and artificial synaptic plasticity. Science China Materials, 2021, 64, 727-738.	3.5	51
61	A work-function tunable polyelectrolyte complex (PEI:PSS) as a cathode interfacial layer for inverted organic solar cells. Journal of Materials Chemistry A, 2014, 2, 7788-7794.	5.2	49
62	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 3021-3027.	2.5	49
63	Hole mobility of 3.56 cm² V^{âˆ’1} s^{âˆ’1} accomplished using more extended dithienothiophene with furan flanked diketopyrrolopyrrole polymer. Journal of Materials Chemistry C, 2015, 3, 9299-9305.	2.7	47
64	Efficient Bifacial Semitransparent Perovskite Solar Cells Using Ag/V₂O₅ as Transparent Anodes. ACS Applied Materials & Interfaces, 2018, 10, 12731-12739.	4.0	46
65	Enhanced inverted organic solar cell performance by post-treatments of solution-processed ZnO buffer layers. RSC Advances, 2014, 4, 6646.	1.7	45
66	Low temperature aqueous solution-processed Li doped ZnO buffer layers for high performance inverted organic solar cells. Journal of Materials Chemistry C, 2016, 4, 6169-6175.	2.7	45
67	Stable 7,14-Disubstituted-5,12-Dithiapentacenes with Quinoidal Conjugation. Organic Letters, 2014, 16, 3966-3969.	2.4	44
68	Potential Applications of Halide Double Perovskite Cs₂AgInX₆ (X = Cl, Br) in Flexible Optoelectronics: Unusual Effects of Uniaxial Strains. Journal of Physical Chemistry Letters, 2019, 10, 1120-1125.	2.1	44
69	Elucidating the charge carrier transport and extraction in planar heterojunction perovskite solar cells by Kelvin probe force microscopy. Journal of Materials Chemistry A, 2016, 4, 17464-17472.	5.2	43
70	Solution-processed high performance organic thin film transistors enabled by roll-to-roll slot die coating technique. Organic Electronics, 2018, 54, 80-88.	1.4	43
71	Interface studies of the planar heterojunction perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 783-790.	3.0	42
72	Reveal the Humidity Effect on the Phase Pure CsPbBr₃ Single Crystals Formation at Room Temperature and Its Application for Ultrahigh Sensitive Xâ€Ray Detector. Advanced Science, 2022, 9, e2103482.	5.6	41

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73	A two-layer structured PbI₂thin film for efficient planar perovskite solar cells. Nanoscale, 2015, 7, 12092-12095.	2.8	40
74	Nitrogen and sulfur co-doped graphene aerogels as an efficient metal-free catalyst for oxygen reduction reaction in an alkaline solution. RSC Advances, 2016, 6, 22781-22790.	1.7	40
75	Structures and properties of polyimide fibers containing ether units. Journal of Materials Science, 2015, 50, 4104-4114.	1.7	39
76	Improved Doping and Optoelectronic Properties of Zn-Doped Cspbbr₃ Perovskite through Mn Codoping Approach. Journal of Physical Chemistry Letters, 2021, 12, 3393-3400.	2.1	39
77	Theoretical Analysis of Twoâ€Terminal and Fourâ€Terminal Perovskite/Copper Indium Gallium Selenide Tandem Solar Cells. Solar Rrl, 2019, 3, 1900303.	3.1	38
78	Recycling of FTO/TiO₂ Substrates: Route toward Simultaneously High-Performance and Cost-Efficient Carbon-Based, All-Inorganic CsPbIBr₂ Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 4549-4557.	4.0	38
79	Achieving high performance and stable inverted planar perovskite solar cells using lithium and cobalt co-doped nickel oxide as hole transport layers. Journal of Materials Chemistry C, 2019, 7, 9270-9277.	2.7	37
80	Benign Pinholes in CsPbIBr₂ Absorber Film Enable Efficient Carbon-Based, All-Inorganic Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 5254-5262.	2.5	37
81	Efficient NiO<i>x</i> Hole Transporting Layer Obtained by the Oxidation of Metal Nickel Film for Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 4700-4707.	2.5	37
82	An efficient TeO₂/Ag transparent top electrode for 20%-efficiency bifacial perovskite solar cells with a bifaciality factor exceeding 80%. Journal of Materials Chemistry A, 2019, 7, 15156-15163.	5.2	37
83	A Review on Energy Bandâ€Gap Engineering for Perovskite Photovoltaics. Solar Rrl, 2019, 3, 1970116.	3.1	36
84	Enhanced Polymer Thin Film Transistor Performance by Carefully Controlling the Solution Selfâ€Assembly and Film Alignment with Slot Die Coating. Advanced Electronic Materials, 2015, 1, 1500036.	2.6	35
85	Thienoaceneâ€Fused Pentalenes: Syntheses, Structures, Physical Properties and Applications for Organic Fieldâ€Effect Transistors. Chemistry - A European Journal, 2015, 21, 2019-2028.	1.7	35
86	Surface reconstruction strategy improves the all-inorganic CsPbIBr2 based perovskite solar cells and photodetectors performance. Nano Energy, 2022, 94, 106960.	8.2	35
87	Diacenopentalene dicarboximides as new n-type organic semiconductors for field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 8758-8764.	2.7	34
88	Improving Electron Extraction Ability and Device Stability of Perovskite Solar Cells Using a Compatible PCBM/AZO Electron Transporting Bilayer. Nanomaterials, 2018, 8, 720.	1.9	34
89	Intermediate Phase Halide Exchange Strategy toward a High-Quality, Thick CsPbBr₃ Film for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2019, 11, 22543-22549.	4.0	34
90	Suppressing Halide Phase Segregation in CsPbIBr₂ Films by Polymer Modification for Hysteresis-Less All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 2868-2878.	4.0	34

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91	Recent progress on the effects of impurities and defects on the properties of Ga₂O₃. Journal of Materials Chemistry C, 2022, 10, 13395-13436.	2.7	34
92	Interface engineering of TiO2/perovskite interface via fullerene derivatives for high performance planar perovskite solar cells. Organic Electronics, 2018, 62, 459-467.	1.4	32
93	Mechanical and thermodynamic properties of two-dimensional monoclinic Ga2O3. Materials and Design, 2019, 184, 108197.	3.3	32
94	Recent progress of inorganic hole transport materials for efficient and stable perovskite solar cells. Nano Select, 2021, 2, 1055-1080.	1.9	32
95	Large core-expanded triazatruxene-based discotic liquid crystals: synthesis, characterization and physical properties. Journal of Materials Chemistry, 2012, 22, 13180.	6.7	31
96	6,13-Dicyano pentacene-2,3:9,10-bis(dicarboximide) for solution-processed air-stable n-channel field effect transistors and complementary circuit. Journal of Materials Chemistry C, 2013, 1, 456-462.	2.7	30
97	Improvement of transparent silver thin film anodes for organic solar cells with a decreased percolation threshold of silver. Solar Energy Materials and Solar Cells, 2014, 127, 193-200.	3.0	30
98	Effect of ultraviolet absorptivity and waterproofness of poly(3,4-ethylenedioxythiophene) with extremely weak acidity, high conductivity on enhanced stability of perovskite solar cells. Journal of Power Sources, 2017, 358, 29-38.	4.0	30
99	Effects of Annealing Conditions on Mixed Lead Halide Perovskite Solar Cells and Their Thermal Stability Investigation. Materials, 2017, 10, 837.	1.3	30
100	Device Simulation of Organicâ€“Inorganic Halide Perovskite/Crystalline Silicon Four-Terminal Tandem Solar Cell With Various Antireflection Materials. IEEE Journal of Photovoltaics, 2018, 8, 1685-1691.	1.5	30
101	Synergetic surface charge transfer doping and passivation toward high efficient and stable perovskite solar cells. IScience, 2021, 24, 102276.	1.9	30
102	Inverted Organic Photovoltaic Cells with Solution-Processed Zinc Oxide as Electron Collecting Layer. Japanese Journal of Applied Physics, 2011, 50, 082302.	0.8	30
103	Water induced zinc oxide thin film formation and its transistor performance. Journal of Materials Chemistry C, 2014, 2, 5397-5403.	2.7	29
104	Thiopheneâ€“tetrafluorophenylâ€“thiophene: a promising building block for ambipolar organic field effect transistors. Journal of Materials Chemistry C, 2015, 3, 2080-2085.	2.7	29
105	Effect of pre-imidization on the structures and properties of polyimide fibers. RSC Advances, 2015, 5, 69555-69566.	1.7	29
106	High-Mobility Ambipolar Organic Thin-Film Transistor Processed From a Nonchlorinated Solvent. ACS Applied Materials & Interfaces, 2016, 8, 24325-24330.	4.0	29
107	A 800â€‰V Î²â€Ga₂O₃ Metalâ€“Oxideâ€“Semiconductor Fieldâ€Effect Transistor with Highâ€Power Figure of Merit of Over 86.3â€‰MWâ€‰cm^{â^'2}. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900421.	0.8	29
108	Reducing Defects in Perovskite Solar Cells with White Light Illumination-Assisted Synthesis. ACS Energy Letters, 2019, 4, 2821-2829.	8.8	29

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109	Flux-mediated growth strategy enables low-temperature fabrication of high-efficiency all-inorganic CsPbIBr2 perovskite solar cells. Electrochimica Acta, 2020, 330, 135325.	2.6	29
110	Deepâ€Ultraviolet Photoactivationâ€Assisted Contact Engineering Toward Highâ€Efficiency and Stable Allâ€Inorganic CsPbI₂Br Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000001.	3.1	29
111	Structures and properties of polyimide fibers containing fluorine groups. RSC Advances, 2015, 5, 71425-71432.	1.7	28
112	Simultaneouly enhanced durability and performance by employing dopamine copolymerized PEDOT with high work function and water-proofness for inverted perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 2311-2318.	2.7	28
113	Sacrificial additive-assisted film growth endows self-powered CsPbBr₃ photodetectors with ultra-low dark current and high sensitivity. Journal of Materials Chemistry C, 2020, 8, 209-218.	2.7	28
114	Incorporating TCNQ into Thiophene-Fused Heptacene for n-Channel Field Effect Transistor. Organic Letters, 2012, 14, 2786-2789.	2.4	27
115	Interfacial TiO2 atomic layer deposition triggers simultaneous crystallization control and band alignment for efficient CsPbIBr2 perovskite solar cell. Organic Electronics, 2019, 74, 103-109.	1.4	27
116	Synergistic Interface Layer Optimization and Surface Passivation with Fluorocarbon Molecules toward Efficient and Stable Inverted Planar Perovskite Solar Cells. Research, 2021, 2021, 9836752.	2.8	27
117	Reducing the interfacial energy loss via oxide/perovskite heterojunction engineering for high efficient and stable perovskite solar cells. Chemical Engineering Journal, 2021, 417, 129184.	6.6	27
118	Double Side Interfacial Optimization for Lowâ€Temperature Stable CsPbI₂Br Perovskite Solar Cells with High Efficiency Beyond 16%. Energy and Environmental Materials, 2022, 5, 637-644.	7.3	27
119	Defects and doping engineering towards high performance lead-free or lead-less perovskite solar cells. Journal of Energy Chemistry, 2022, 68, 420-438.	7.1	27
120	Room temperature ferroelectricity of hybrid organicâ€“inorganic perovskites with mixed iodine and bromine. Journal of Materials Chemistry A, 2018, 6, 9665-9676.	5.2	26
121	Disappeared deep charge-states transition levels in the p-type intrinsic CsSnCl3 perovskite. Applied Physics Letters, 2019, 114, .	1.5	26
122	The crystal anisotropy effect of MAPbI3 perovskite on optoelectronic devices. Materials Today Energy, 2020, 17, 100481.	2.5	26
123	Ultrawide Band Gap Oxide Semiconductor-Triggered Performance Improvement of Perovskite Solar Cells via the Novel Ga₂O₃/SnO₂ Composite Electron-Transporting Bilayer. ACS Applied Materials & Interfaces, 2020, 12, 54703-54710.	4.0	26
124	Metal oxide heterojunctions for high performance solution grown oxide thin film transistors. Applied Surface Science, 2020, 527, 146774.	3.1	26
125	Solution-processable n-type and ambipolar semiconductors based on a fused cyclopentadithiophenebis(dicyanovinylene) core. Chemical Communications, 2013, 49, 7135.	2.2	25
126	Effect of polyelectrolyte interlayer on efficiency and stability of p-i-n perovskite solar cells. Solar Energy, 2016, 139, 190-198.	2.9	25

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127	Suppressing intrinsic self-doping of CsPbIBr₂ films for high-performance all-inorganic, carbon-based perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 4506-4515.	2.5	25
128	Toward High-Performance Electron/Hole-Transporting-Layer-Free, Self-Powered CsPbIBr₂ Photodetectors via Interfacial Engineering. ACS Applied Materials & Interfaces, 2020, 12, 6607-6614.	4.0	25
129	Performance Comparison of Conventional and Inverted Organic Bulk Heterojunction Solar Cells From Optical and Electrical Aspects. IEEE Transactions on Electron Devices, 2013, 60, 451-457.	1.6	24
130	Highly efficient perovskite solar cells based on a dopant-free conjugated DPP polymer hole transport layer: influence of solvent vapor annealing. Sustainable Energy and Fuels, 2018, 2, 2154-2159.	2.5	24
131	Efficient planar perovskite solar cells with low-temperature atomic layer deposited TiO2 electron transport layer and interfacial modifier. Solar Energy, 2019, 188, 239-246.	2.9	24
132	Spontaneously Micropatterned Silk/Gelatin Scaffolds with Topographical, Biological, and Electrical Stimuli for Neuronal Regulation. ACS Biomaterials Science and Engineering, 2020, 6, 1144-1153.	2.6	24
133	Contact barriers modulation of graphene/Î²-Ga2O3 interface for high-performance Ga2O3 devices. Applied Surface Science, 2020, 527, 146740.	3.1	24
134	Surface functionalization modulates the structural and optoelectronic properties of two-dimensional Ga2O3. Materials Today Physics, 2020, 12, 100192.	2.9	24
135	Inverted Organic Solar Cells with Low-Temperature Al-Doped-ZnO Electron Transport Layer Processed from Aqueous Solution. Polymers, 2018, 10, 127.	2.0	23
136	Efficient Ni/Au Mesh Transparent Electrodes for ITO-Free Planar Perovskite Solar Cells. Nanomaterials, 2019, 9, 932.	1.9	23
137	Dithiol surface treatment towards improved charge transfer dynamic and reduced lead leakage in lead halide perovskite solar cells. EcoMat, 2022, 4, .	6.8	23
138	Efficient â€œLight-soakingâ€•free Inverted Organic Solar Cells with Aqueous Solution Processed Low-Temperature ZnO Electron Extraction Layers. ACS Applied Materials & Interfaces, 2013, 5, 13318-13324.	4.0	22
139	Enhanced planar heterojunction perovskite solar cell performance and stability using PDDA polyelectrolyte capping agent. Solar Energy Materials and Solar Cells, 2017, 172, 133-139.	3.0	22
140	Investigation of Fe²⁺-incorporating organicâ€“inorganic hybrid perovskites from first principles and experiments. RSC Advances, 2017, 7, 54586-54593.	1.7	22
141	High performance transient organic solar cells on biodegradable polyvinyl alcohol composite substrates. RSC Advances, 2017, 7, 52930-52937.	1.7	22
142	Low temperature combustion synthesized indium oxide electron transport layer for high performance and stable perovskite solar cells. Journal of Power Sources, 2019, 438, 226981.	4.0	22
143	Understanding the Potential of 2D Ga 2 O 3 in Flexible Optoelectronic Devices: Impact of Uniaxial Strain and Electric Field. Advanced Theory and Simulations, 2019, 2, 1900106.	1.3	22
144	Beneficial Role of Organolead Halide Perovskite CH₃NH₃PbI₃/SnO₂ Interface: Theoretical and Experimental Study. Advanced Materials Interfaces, 2019, 6, 1900400.	1.9	22

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145	Secondary crystallization strategy for highly efficient inorganic CsPbI2Br perovskite solar cells with efficiency approaching 17%. Journal of Energy Chemistry, 2021, 63, 558-565.	7.1	22
146	Cs2TiI6: A potential lead-free all-inorganic perovskite material for ultrahigh-performance photovoltaic cells and alpha-particle detection. Nano Research, 2022, 15, 2697-2705.	5.8	22
147	TiOx/Al bilayer as cathode buffer layer for inverted organic solar cell. Applied Physics Letters, 2013, 103, .	1.5	21
148	Pro-aromatic bisphenaleno-thieno[3,2-b]thiophene versus anti-aromatic bisindeno-thieno[3,2-b]thiophene: different ground-state properties and applications in field-effect transistors. Chemical Communications, 2015, 51, 13178-13180.	2.2	21
149	Theoretical Studies of Electronic and Optical Behaviors of All-Inorganic CsPbI₃ and Two-Dimensional MS₂ (M = Mo, W) Heterostructures. Journal of Physical Chemistry C, 2019, 123, 7158-7165.	1.5	21
150	Multilevel oxygen-vacancy conductive filaments in Î²-Ga₂O₃ based resistive random access memory. Physical Chemistry Chemical Physics, 2021, 23, 5975-5983.	1.3	21
151	Ultra-high temperature tolerant flexible transparent electrode with embedded silver nanowires bundle micromesh for electrical heater. Npj Flexible Electronics, 2022, 6, .	5.1	21
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