

Baomin Xu

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148
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5,476
ext. citations

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L-index

#	Paper	IF	Citations
136	Domain wall motion and its contribution to the dielectric and piezoelectric properties of lead zirconate titanate films. <i>Journal of Applied Physics</i> , 2001 , 89, 1336-1348	2.5	412
135	Nonlinear piezoelectric behavior of ceramic bending mode actuators under strong electric fields. <i>Journal of Applied Physics</i> , 1999 , 86, 3352-3360	2.5	169
134	Electromechanical coupling and output efficiency of piezoelectric bending actuators. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1999 , 46, 638-46	3.2	152
133	Charge release of lanthanum-doped lead zirconate titanate stannate antiferroelectric thin films. <i>Applied Physics Letters</i> , 1998 , 72, 593-595	3.4	116
132	Dielectric properties and field-induced phase switching of lead zirconate titanate stannate antiferroelectric thick films on silicon substrates. <i>Journal of Applied Physics</i> , 2000 , 87, 2507-2515	2.5	115
131	Electronic and magnetic properties of zigzag graphene nanoribbon with one edge saturated. <i>Applied Physics Letters</i> , 2010 , 96, 163102	3.4	112
130	Co single-atom anchored on Co ₃ O ₄ and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118188	21.8	94
129	3D heterostructured pure and N-Doped Ni ₃ S ₂ /VS ₂ nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 269, 55-61	6.7	91
128	Ferroelectric and antiferroelectric films for microelectromechanical systems applications. <i>Thin Solid Films</i> , 2000 , 377-378, 712-718	2.2	87
127	Efficiency and stability enhancement of perovskite solar cells by introducing CsPbI ₃ quantum dots as an interface engineering layer. <i>NPG Asia Materials</i> , 2018 , 10, 552-561	10.3	82
126	Thickness dependence of ferroelectric polarization switching in poly(vinylidene fluoride-trifluoroethylene) spin cast films. <i>Applied Physics Letters</i> , 2001 , 78, 1122-1124	3.4	78
125	Intensive Exposure of Functional Rings of a Polymeric Hole-Transporting Material Enables Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804028	24	77
124	Efficient and Stable Perovskite Solar Cells via Dual Functionalization of Dopamine Semiquinone Radical with Improved Trap Passivation Capabilities. <i>Advanced Functional Materials</i> , 2018 , 28, 1707444	15.6	74
123	Charge-transport layer engineering in perovskite solar cells. <i>Science Bulletin</i> , 2020 , 65, 1237-1241	10.6	71
122	Efficient and Stable Perovskite Solar Cells Prepared in Ambient Air Based on Surface-Modified Perovskite Layer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6546-6553	3.8	70
121	Theoretical analysis of the sensor effect of cantilever piezoelectric benders. <i>Journal of Applied Physics</i> , 1999 , 85, 1702-1712	2.5	68
120	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17849-17855	16.4	64

119	Black phosphorus quantum dots as dual-functional electron-selective materials for efficient plastic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8886-8894	13	62
118	Highly Efficient and Stable GABr-Modified Ideal-Bandgap (1.35 eV) Sn/Pb Perovskite Solar Cells Achieve 20.63% Efficiency with a Record Small V Deficit of 0.33 V. <i>Advanced Materials</i> , 2020 , 32, e19081074	10.7	61
117	Efficient coupling of a hierarchical V2O5@Ni3S2 hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17954-17962	13	61
116	Dependence of electrical properties on film thickness in lanthanum-doped lead zirconate titanate stannate antiferroelectric thin films. <i>Journal of Applied Physics</i> , 1999 , 85, 3753-3758	2.5	61
115	Hydrophobic CuO Quantum Dots Enabled by Surfactant Modification as Top Hole-Transport Materials for Efficient Perovskite Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1801169	13.6	60
114	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , 2021 , 11, 2003025	21.8	59
113	Cross-linking of polymer and ionic liquid as high-performance gel electrolyte for flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2017 , 244, 112-118	6.7	58
112	Vanadium disulfide decorated graphitic carbon nitride for super-efficient solar-driven hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 295-301	21.8	57
111	Dielectric hysteresis from transverse electric fields in lead zirconate titanate thin films. <i>Applied Physics Letters</i> , 1999 , 74, 3549-3551	3.4	55
110	Engineering Pt and Fe dual-metal single atoms anchored on nitrogen-doped carbon with high activity and durability towards oxygen reduction reaction for zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119891	21.8	51
109	High-Performance Sodium-Ion Batteries Based on Nitrogen-Doped Mesoporous Carbon Spheres with Ultrathin Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2970-2977	9.5	51
108	Hydrothermally Treated SnO2 as the Electron Transport Layer in High-Efficiency Flexible Perovskite Solar Cells with a Certificated Efficiency of 17.3%. <i>Advanced Functional Materials</i> , 2019 , 29, 1807604	15.6	50
107	WX /g-C N (WX =W C, WS , or W N) Composites for Highly Efficient Photocatalytic Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 3355-3362	8.3	49
106	Side-Chain Engineering on Dopant-Free Hole-Transporting Polymers toward Highly Efficient Perovskite Solar Cells (20.19%). <i>Advanced Functional Materials</i> , 2019 , 29, 1904856	15.6	48
105	Sensing characteristics of in-plane polarized lead zirconate titanate thin films. <i>Applied Physics Letters</i> , 1999 , 75, 4180-4182	3.4	47
104	Ionic liquid modified SnO2 nanocrystals as a robust electron transporting layer for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22086-22095	13	47
103	PET-based bisBODIPY photosensitizers for highly efficient excited triplet state and singlet oxygen generation: tuning photosensitizing ability by dihedral angles. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24792-24804	3.6	44
102	Carbonized MoS2: Super-Active Co-Catalyst for Highly Efficient Water Splitting on CdS. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4220-4229	8.3	43

101	Flexible perovskite solar cells based on green, continuous roll-to-roll printing technology. <i>Journal of Energy Chemistry</i> , 2018 , 27, 971-989	12	40
100	The effect of acoustic phonon scattering on the carrier mobility in the semiconducting zigzag single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 183108	3.4	39
99	Facile fabrication of highly efficient ETL-free perovskite solar cells with 20% efficiency by defect passivation and interface engineering. <i>Chemical Communications</i> , 2019 , 55, 2777-2780	5.8	38
98	Synergistic effects of multiple functional ionic liquid-treated PEDOT:PSS and less-ion-defects S-acetylthiocholine chloride-passivated perovskite surface enabling stable and hysteresis-free inverted perovskite solar cells with conversion efficiency over 20%. <i>Nano Energy</i> , 2019 , 63, 103866	17.1	38
97	Hole-transporting layer based on a conjugated polyelectrolyte with organic cations enables efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2019 , 57, 248-255	17.1	37
96	Binary organic spacer-based quasi-two-dimensional perovskites with preferable vertical orientation and efficient charge transport for high-performance planar solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9542-9549	13	36
95	Highly Stable and Efficient Perovskite Solar Cells with 22.0% Efficiency Based on Inorganic/Organic Dopant-Free Double Hole Transporting Layers. <i>Advanced Functional Materials</i> , 2020 , 30, 1908462	15.6	36
94	Microstereolithography of lead zirconate titanate thick film on silicon substrate. <i>Sensors and Actuators A: Physical</i> , 2000 , 87, 72-77	3.9	34
93	Direct Surface Passivation of Perovskite Film by 4-Fluorophenethylammonium Iodide toward Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2558-2565	9.5	34
92	Crystallization manipulation and morphology evolution for highly efficient perovskite solar cell fabrication via hydration water induced intermediate phase formation under heat assisted spin-coating. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3012-3021	13	32
91	In-situ growth of nanoparticles-decorated double perovskite electrode materials for symmetrical solid oxide cells. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118842	21.8	31
90	Synthesis of Lead Zirconate Titanate Stannate Antiferroelectric Thick Films by Sol-Gel Processing. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 306-312	3.8	31
89	Investigation into the Surface Chemistry of LiTiO Nanoparticles for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26008-26012	9.5	30
88	Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. <i>Nano Energy</i> , 2021 , 80, 105511	17.1	30
87	Facile phthalocyanine doping into PEDOT leads to highly efficient and stable inverted metal halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12515-12522	13	30
86	A Review on Solution-Processable Dopant-Free Small Molecules as Hole-Transporting Materials for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000254	12.8	29
85	Propylammonium Chloride Additive for Efficient and Stable FAPbI ₃ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2102538	21.8	29
84	Electron Transporting Bilayer of SnO ₂ and TiO ₂ Nanocolloid Enables Highly Efficient Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900331	7.1	28

83	Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2019 , 13, 1625-1634	16.7	27
82	Bifunctional Ultrathin PCBM Enables Passivated Trap States and Cascaded Energy Level toward Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20103-20109	9.5	27
81	Fabricating High-Efficient Blade-Coated Perovskite Solar Cells under Ambient Condition Using Lead Acetate Trihydrate. <i>Solar Rrl</i> , 2018 , 2, 1700214	7.1	25
80	Recent progresses of 3D printing technologies for structural energy storage devices. <i>Materials Today Nano</i> , 2020 , 12, 100094	9.7	25
79	Novel perylene diimide based polymeric electron-acceptors containing ethynyl as the bridge for all-polymer solar cells. <i>Organic Electronics</i> , 2017 , 45, 227-233	3.5	24
78	Polymer Assisted Small Molecule Hole Transport Layers Toward Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800173	7.1	23
77	Accelerating the Screening of Perovskite Compositions for Photovoltaic Applications through High-Throughput Inkjet Printing. <i>Advanced Functional Materials</i> , 2019 , 29, 1905487	15.6	23
76	Effect of compositional variations on electrical properties in phase switching (Pb,La)(Zr,Ti,Sn)O ₃ thin and thick films. <i>Journal of Materials Science</i> , 2000 , 35, 6027-6033	4.3	23
75	Antiferroelectric thin and thick films for high-strain microactuators. <i>Integrated Ferroelectrics</i> , 1998 , 22, 545-557	0.8	23
74	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5289-5297	9.5	23
73	Highly carbon and sulfur tolerant Sr ₂ TiMoO ₆ double perovskite anode for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20404-20415	6.7	22
72	Side-Chain Polymers as Dopant-Free Hole-Transporting Materials for Perovskite Solar Cells-The Impact of Substituents Positions in Carbazole on Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26928-26937	9.5	22
71	Redox inactive ion meliorated BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O ₃ perovskite oxides as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17288-17296	13	21
70	Polystyrene with a methoxytriphenylamine-conjugated-thiophene moiety side-chain as a dopant-free hole-transporting material for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13123-13132	13	21
69	The growth of metallic nanofilaments in resistive switching memory devices based on solid electrolytes. <i>Applied Physics Letters</i> , 2009 , 94, 153504	3.4	21
68	Characteristics of lead zirconate titanate ferroelectric thick films from a screen-printing laser transfer method. <i>Applied Physics Letters</i> , 2005 , 87, 192902	3.4	21
67	Improvement on the performance of perovskite solar cells by doctor-blade coating under ambient condition with hole-transporting material optimization. <i>Journal of Energy Chemistry</i> , 2019 , 38, 207-213	12	20
66	Lanthanum doped lead zirconate titanate stannate antiferroelectric thin films from acetic acid-based sol-gel method. <i>Materials Letters</i> , 1998 , 34, 157-160	3.3	20

65	Tailoring the Interface in FAPbI ₃ Planar Perovskite Solar Cells by Imidazole-Graphene-Quantum-Dots. <i>Advanced Functional Materials</i> , 2021 , 31, 2101438	15.6	20
64	In-situ and selectively laser reduced graphene oxide sheets as excellent conductive additive for high rate capability LiFePO ₄ lithium ion batteries. <i>Journal of Power Sources</i> , 2019 , 412, 677-682	8.9	20
63	Conjugated polyelectrolyte with potassium cations enables inverted perovskite solar cells with an efficiency over 20%. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8238-8243	13	19
62	In-Plane Polarized 0.7Pb(Mg _{1/3} Nb _{2/3})O ₃ ·0.3PbTiO ₃ Thin Films. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1997-2000	3.8	19
61	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 18013-18019	3.6	17
60	Understanding the Interplay of Binary Organic Spacer in Ruddlesden-Popper Perovskites toward Efficient and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1907759	15.6	17
59	Bipolar resistive switching performance of the nonvolatile memory cells based on (AgI) _{0.2} (Ag ₂ MoO ₄) _{0.8} solid electrolyte films. <i>Journal of Applied Physics</i> , 2009 , 106, 054501	2.5	16
58	Boosting the performance of MA-free inverted perovskite solar cells via multifunctional ion liquid. <i>Journal of Materials Chemistry A</i> ,	13	16
57	Investigating the single crystal OFET and photo-responsive characteristics based on an anthracene linked benzo[b]benzo[4,5]thieno[2,3-d]thiophene semiconductor. <i>Organic Electronics</i> , 2019 , 72, 1-5	3.5	15
56	Efficient symmetrical electrodes of PrBaFe ₂ -Co O _{5+λ} (λ =0, 0.2,0.4) for solid oxide fuel cells and solid oxide electrolysis cells. <i>Electrochimica Acta</i> , 2020 , 358, 136916	6.7	15
55	TaO-TiO Composite Charge-trapping Dielectric for the Application of the Nonvolatile Memory. <i>Scientific Reports</i> , 2017 , 7, 5988	4.9	14
54	Selective Targeting Anchor Strategy Afford Efficient and Stable Ideal Bandgap Perovskite Solar Cells.. <i>Advanced Materials</i> , 2022 , e2110241	24	14
53	Liberating Researchers from the Glovebox: A Universal Thermal Radiation Protocol Toward Efficient Fully Air-Processed Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800324	7.1	13
52	Enhanced stability and photovoltage for inverted perovskite solar cells via precursor engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15880-15886	13	13
51	A dual function-enabled novel zwitterion to stabilize a Pb-I framework and passivate defects for highly efficient inverted planar perovskite solar cells. <i>Chemical Communications</i> , 2020 , 56, 6929-6932	5.8	13
50	Simple and low-cost thiophene and benzene-conjugated triarylamines as hole-transporting materials for perovskite solar cells. <i>RSC Advances</i> , 2017 , 7, 45478-45483	3.7	12
49	Compositional dependence of electrical properties in plzst thin films. <i>Integrated Ferroelectrics</i> , 1998 , 22, 501-513	0.8	12
48	Ambient Inkjet-Printed High-Efficiency Perovskite Solar Cells: Manipulating the Spreading and Crystallization Behaviors of Picoliter Perovskite Droplets. <i>Solar Rrl</i> , 2021 , 5, 2100106	7.1	12

47	Efficient and stable symmetrical electrode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.7}\text{Mo}_{0.1}\text{O}_3$ for direct hydrocarbon solid oxide fuel cells. <i>Electrochimica Acta</i> , 2019 , 323, 134857	6.7	11
46	Bimorph-based piezoelectric air acoustic transducer: model. <i>Sensors and Actuators A: Physical</i> , 1998 , 69, 234-242	3.9	11
45	Unraveling Passivation Mechanism of Imidazolium-Based Ionic Liquids on Inorganic Perovskite to Achieve Near-Record-Efficiency CsPbI ₃ Solar Cells. <i>Nano-Micro Letters</i> , 2021 , 14, 7	19.5	11
44	Tetrabenzotriazacorrole and its derivatives as undoped hole transporting materials for perovskite solar cells: Synthesis, device fabrication, and device performance. <i>Journal of Energy Chemistry</i> , 2020 , 43, 139-147	12	11
43	Triazatetrabenzcorrole (TBC) as efficient dopant-free hole transporting materials for organo metal halide perovskite solar cells. <i>Dyes and Pigments</i> , 2018 , 159, 600-603	4.6	10
42	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2107359	15.6	10
41	Novel cross-linked films from epoxy-functionalized conjugated polymer and amine based small molecule for the interface engineering of high-efficiency inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 22-29	6.4	9
40	Enhance the fluorescence and singlet oxygen generation ability of BODIPY: Modification on the meso-phenyl unit with electron withdrawing groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 349, 197-206	4.7	9
39	Laser transfer processing for the integration of thin and thick film ferroelectrics. <i>Journal of Materials Science</i> , 2009 , 44, 5325-5331	4.3	9
38	Effects of hydrostatic pressure on the electrical properties of hexagonal $\text{Ge}_2\text{Sb}_2\text{Te}_5$: Experimental and theoretical approaches. <i>Applied Physics Letters</i> , 2011 , 98, 142112	3.4	9
37	Vacuum-Assisted Preparation of High-Quality Quasi-2D Perovskite Thin Films for Large-Area Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022 , 32, 2107644	15.6	8
36	An optimized synthesis route for high performance composite cathode based on a layered perovskite oxide of $\text{PrBa}_{0.92}\text{Co}_2\text{O}_{6-x}$ with cationic deficiency. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4271-4280	6.7	8
35	An in-situ defect passivation through a green anti-solvent approach for high-efficiency and stable perovskite solar cells. <i>Science Bulletin</i> , 2021 , 66, 1419-1428	10.6	7
34	Water-Soluble Conjugated Polyelectrolyte Hole Transporting Layer for Efficient Sky-Blue Perovskite Light-Emitting Diodes. <i>Small</i> , 2021 , 17, e2101477	11	7
33	A laser synthesis of vanadium oxide bonded graphene for high-rate supercapacitors. <i>Journal of Energy Chemistry</i> , 2020 , 49, 174-178	12	6
32	LASER TRANSFER PROCESSING AND THE INTEGRATION OF FERROELECTRIC FILMS. <i>Integrated Ferroelectrics</i> , 2009 , 106, 40-48	0.8	6
31	Managing Phase Orientation and Crystallinity of Printed DionJacobson 2D Perovskite Layers via Controlling Crystallization Kinetics. <i>Advanced Functional Materials</i> , 2112146	15.6	5
30	Structures and Properties of LaFeCuO and BaFeCuO as Cobalt-Free Perovskite-Type Cathode Materials for the Oxygen Reduction Reaction. <i>ChemistryOpen</i> , 2018 , 7, 688-695	2.3	5

29	Antioxidation and Energy-Level Alignment for Improving Efficiency and Stability of Hole Transport Layer-Free and Methylammonium-Free Tin-Lead Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45059-45067	9.5	5
28	Fluorinated Cross-linkable and Dopant-free hole transporting materials for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 422, 130124	14.7	5
27	An Open-Circuit Voltage and Power Conversion Efficiency Study of Fullerene Ternary Organic Solar Cells Based on Oligomer/Oligomer and Oligomer/Polymer. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700090	4.8	4
26	Dielectric hysteresis under transverse electric fields in sol-gel lead zirconate titanate films deposited on ZrO ₂ passivated silicon. <i>Integrated Ferroelectrics</i> , 1999 , 24, 19-31	0.8	4
25	High-efficiency and thermal/moisture stable CsPbI _{2.84} Br _{0.16} inorganic perovskite solar cells enabled by a multifunctional cesium trimethylacetate organic additive. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4922-4932	13	4
24	Colloidal SnO ₂ -Assisted CdS Electron Transport Layer Enables Efficient Electron Extraction for Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100494	7.1	4
23	Multifunctional Ion-Lock Interface Layer Achieved by Solid-Solid Contact Approach for Stabilizing Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2200473	15.6	4
22	Theoretical study of D-APEA/D-EAPEA triphenylamine and quinoline derivatives as sensitizers for dye-sensitized solar cells.. <i>RSC Advances</i> , 2020 , 10, 17255-17265	3.7	3
21	Front side metallization of crystalline silicon solar cells using selectively laser drilled contact openings 2009 ,		3
20	TEM and DSC studies on the synthetic diamond grown from Fe-Ni-C system under HPHT. <i>Journal of Materials Science</i> , 2006 , 41, 3197-3200	4.3	3
19	Piezoelectric air transducer for active noise control 1996 ,		3
18	High throughput screening of novel tribromide perovskite materials for high-photovoltage solar cells. <i>Journal of Materials Chemistry A</i> ,	13	3
17	Enhancement of Visible-Light Photocatalytic Hydrogen Production by CeCO ₃ OH in g-C ₃ N ₄ /CeO ₂ System. <i>ChemCatChem</i> , 2018 , 11, 1069	5.2	3
16	Evaluation of A-Site Ba-Deficient Ba CoFeZrYO Oxides as Electrocatalysts for Efficient Hydrogen Evolution Reaction. <i>Scanning</i> , 2018 , 2018, 1341608	1.6	3
15	The Multiple Roles of Metal Ion Dopants in Spectrally Stable, Efficient Quasi-2D Perovskite Sky-Blue Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2021 , 9, 2100860	8.1	3
14	Learning from hole-transporting polymers in regular perovskite solar cells to construct efficient conjugated polyelectrolytes for inverted devices. <i>Chemical Engineering Journal</i> , 2021 , 420, 129735	14.7	3
13	Operando structure degradation study of PbS quantum dot solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3420-3429	35.4	3
12	Fabrication of vanadium oxide microbolometers on thin polyimide films 2013 ,		2

11	Molecular Engineering of Polymeric Hole-Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3526-3534	6.1	2
10	Organo metal halide perovskites effectively photosensitize the production of singlet oxygen (I) <i>Chemical Communications</i> , 2019 , 55, 13100-13103	5.8	2
9	Investigation of laser ablation of silicon nitride passivation with self-doping paste for solar cell contacts 2010 ,		1
8	Electron Transporting Bilayer of SnO ₂ and TiO ₂ Nanocolloid Enables Highly Efficient Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2070014	7.1	1
7	Multidimensional Perovskite for Visible Light Driven Hydrogen Production in Aqueous HI Solution. <i>ACS Applied Energy Materials</i> , 2022 , 5, 207-213	6.1	1
6	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells.. <i>Small</i> , 2022 , e2201694	11	1
5	EConjugated zwitterion for dual-interfacial modification in high-performance perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 416, 129153	14.7	0
4	Ultrathin SnO ₂ Buffer Layer Aids in Interface and Band Engineering for Sb ₂ (S,Se) ₃ Solar Cells with over 8% Efficiency. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3022-3033	6.1	0
3	Highly Orientational Order Perovskite Induced by In situ-generated 1D Perovskitoid for Efficient and Stable Printable Photovoltaics.. <i>Small</i> , 2022 , e2200130	11	0
2	Thick Piezoelectric Films from Laser Transfer Process. <i>Ceramic Transactions</i> ,245-258	0.1	
1	Polymer Assisted Small Molecule Hole Transport Layers Toward Highly Efficient Inverted Perovskite Solar Cells (Solar RRL 110018). <i>Solar Rrl</i> , 2018 , 2, 1870228	7.1	