

# Tsutomu Miyasaka

## List of Publications by Year in descending order

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244  
papers

45,445  
citations

13099

68  
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1825

210  
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263  
all docs

263  
docs citations

263  
times ranked

28212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organometal Halide Perovskites as Visible-Light Sensitizers for Photovoltaic Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 6050-6051.	13.7	17,777
2	Efficient Hybrid Solar Cells Based on Meso-Superstructured Organometal Halide Perovskites. <i>Science</i> , 2012, 338, 643-647.	12.6	9,249
3	Tin-Based Amorphous Oxide: A High-Capacity Lithium-Ion-Storage Material. <i>Science</i> , 1997, 276, 1395-1397.	12.6	2,490
4	Halide Perovskite Photovoltaics: Background, Status, and Future Prospects. <i>Chemical Reviews</i> , 2019, 119, 3036-3103.	47.7	2,009
5	Towards stable and commercially available perovskite solar cells. <i>Nature Energy</i> , 2016, 1, .	39.5	941
6	Stabilizing the Efficiency Beyond 20% with a Mixed Cation Perovskite Solar Cell Fabricated in Ambient Air under Controlled Humidity. <i>Advanced Energy Materials</i> , 2018, 8, 1700677.	19.5	459
7	Highly Luminescent Lead Bromide Perovskite Nanoparticles Synthesized with Porous Alumina Media. <i>Chemistry Letters</i> , 2012, 41, 397-399.	1.3	329
8	Low-temperature SnO <sub>2</sub> -based electron selective contact for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10837-10844.	10.3	324
9	Emergence of Hysteresis and Transient Ferroelectric Response in Organo-Lead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 164-169.	4.6	283
10	Synthesis, optoelectronic properties and applications of halide perovskites. <i>Chemical Society Reviews</i> , 2020, 49, 2869-2885.	38.1	282
11	Effect of Electron Transporting Layer on Bismuth-Based Lead-Free Perovskite (CH <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> for Photovoltaic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14542-14547.	8.0	270
12	Quantum Conversion and Image Detection by a Bacteriorhodopsin-Based Artificial Photoreceptor. <i>Science</i> , 1992, 255, 342-344.	12.6	265
13	Role of spiro-OMeTAD in performance deterioration of perovskite solar cells at high temperature and reuse of the perovskite films to avoid Pb-waste. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2219-2230.	10.3	229
14	Low-Temperature Fabrication of Dye-Sensitized Plastic Electrodes by Electrophoretic Preparation of Mesoporous TiO <sub>2</sub> Layers. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1767.	2.9	219
15	The photocapacitor: An efficient self-charging capacitor for direct storage of solar energy. <i>Applied Physics Letters</i> , 2004, 85, 3932-3934.	3.3	218
16	Perovskite Photovoltaics: Rare Functions of Organo Lead Halide in Solar Cells and Optoelectronic Devices. <i>Chemistry Letters</i> , 2015, 44, 720-729.	1.3	216
17	Stability of solution-processed MAPbI <sub>3</sub> and FAPbI <sub>3</sub> layers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13413-13422.	2.8	208
18	Sulfate-Assisted Interfacial Engineering for High Yield and Efficiency of Triple Cation Perovskite Solar Cells with Alkali-Doped TiO <sub>2</sub> Electron-Transporting Layers. <i>Advanced Functional Materials</i> , 2018, 28, 1706287.	14.9	208

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19	Stabilization of $\text{CsPbI}_3$ in Ambient Room Temperature Conditions by Incorporating Eu into $\text{CsPbI}_3$ . <i>Chemistry of Materials</i> , 2018, 30, 6668-6674.	6.7	199
20	Perovskite Solar Cells: Can We Go Organic-Free, Lead-Free, and Dopant-Free?. <i>Advanced Energy Materials</i> , 2020, 10, 1902500.	19.5	198
21	Photovoltaic Performance of Plastic Dye-Sensitized Electrodes Prepared by Low-Temperature Binder-Free Coating of Mesoscopic Titania. <i>Journal of the Electrochemical Society</i> , 2007, 154, A455.	2.9	185
22	The high open-circuit voltage of perovskite solar cells: a review. <i>Energy and Environmental Science</i> , 2022, 15, 3171-3222.	30.8	181
23	$\text{SnO}_2/\text{Ti}_3\text{C}_2$ MXene electron transport layers for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5635-5642.	10.3	173
24	Light energy conversion with chlorophyll monolayer electrodes. In vitro electrochemical simulation of photosynthetic primary processes. <i>Journal of the American Chemical Society</i> , 1978, 100, 6657-6665.	13.7	168
25	Direct detection of circular polarized light in helical 1D perovskite-based photodiode. <i>Science Advances</i> , 2020, 6, .	10.3	163
26	$V_{OC}$ Over 1.4 V for Amorphous Tin-Oxide-Based Dopant-Free $\text{CsPb}_2\text{Br}$ Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 9725-9734.	13.7	162
27	Atomistic origins of $\text{CH}_3\text{NH}_3\text{PbI}_3$ degradation to $\text{PbI}_2$ in vacuum. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	158
28	Poly(4-vinylpyridine)-Based Interfacial Passivation to Enhance Voltage and Moisture Stability of Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 2473-2479.	6.8	157
29	Tolerance of Perovskite Solar Cell to High-Energy Particle Irradiations in Space Environment. <i>IScience</i> , 2018, 2, 148-155.	4.1	156
30	Severe Morphological Deformation of Spiro-OMeTAD in $(\text{CH}_3\text{NH}_3)_3\text{PbI}_3$ Solar Cells at High Temperature. <i>ACS Energy Letters</i> , 2017, 2, 1760-1761.	17.4	155
31	Chlorophyll Derivative-Sensitized $\text{TiO}_2$ Electron Transport Layer for Record Efficiency of $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2021, 143, 2207-2211.	13.7	154
32	Antibody-Mediated Bacteriorhodopsin Orientation for Molecular Device Architectures. <i>Science</i> , 1994, 265, 762-765.	12.6	150
33	Low temperature preparation of mesoporous $\text{TiO}_2$ films for efficient dye-sensitized photoelectrode by chemical vapor deposition combined with UV light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 187-191.	3.9	149
34	A high-voltage dye-sensitized photocapacitor of a three-electrode system. <i>Chemical Communications</i> , 2005, , 3346.	4.1	148
35	The Interface between FTO and the $\text{TiO}_2$ Compact Layer Can Be One of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9817-9823.	8.0	131
36	Low-temperature-processed $\text{ZnO}/\text{SnO}_2$ nanocomposite for efficient planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 623-630.	6.2	129

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37	Artemisinin-passivated mixed-cation perovskite films for durable flexible perovskite solar cells with over 21% efficiency. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1574-1582.	10.3	126
38	Surface-Modified Metallic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as Electron Transport Layer for Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905694.	14.9	125
39	Toward Printable Sensitized Mesoscopic Solar Cells: Light-Harvesting Management with Thin TiO <sub>2</sub> Films. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 262-269.	4.6	121
40	Highly efficient quantum conversion at chlorophyll a lecithin mixed monolayer coated electrodes. <i>Nature</i> , 1979, 277, 638-640.	27.8	114
41	Efficient Nonsintering Type Dye-sensitized Photocells Based on Electrophoretically Deposited TiO <sub>2</sub> Layers. <i>Chemistry Letters</i> , 2002, 31, 1250-1251.	1.3	110
42	Amorphous Metal Oxide Blocking Layers for Highly Efficient Low-Temperature Brookite TiO <sub>2</sub> -Based Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2224-2229.	8.0	104
43	100% Thermal Stability of Printable Perovskite Solar Cells Using Porous Carbon Counter Electrodes. <i>ChemSusChem</i> , 2016, 9, 2604-2608.	6.8	103
44	Stability and Degradation in Hybrid Perovskites: Is the Glass Half-Empty or Half-Full?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3000-3007.	4.6	102
45	Highly porous PProDOT-Et <sub>2</sub> film as counter electrode for plastic dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3375.	2.8	100
46	Highly Efficient Plastic Dye-sensitized Photoelectrodes Prepared by Low-temperature Binder-free Coating of Mesoscopic Titania Pastes. <i>Chemistry Letters</i> , 2007, 36, 190-191.	1.3	97
47	Conductive polymer-carbon-imidazolium composite: a simple means for constructing solid-state dye-sensitized solar cells. <i>Chemical Communications</i> , 2006, , 1733-1735.	4.1	94
48	Invalidity of Band-Gap Engineering Concept for Bi <sup>3+</sup> Heterovalent Doping in CsPbBr <sub>3</sub> Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5408-5411.	4.6	88
49	The mechanism of toluene-assisted crystallization of organic-inorganic perovskites for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4464-4471.	10.3	86
50	Highly efficient and stable low-temperature processed ZnO solar cells with triple cation perovskite absorber. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13439-13447.	10.3	86
51	Lead Halide Perovskites in Thin Film Photovoltaics: Background and Perspectives. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1058-1068.	3.2	84
52	Highly efficient plastic-based quasi-solid-state dye-sensitized solar cells with light-harvesting mesoporous silica nanoparticles gel-electrolyte. <i>Journal of Power Sources</i> , 2014, 245, 411-417.	7.8	82
53	Lead(II) Propionate Additive and a Dopant-Free Polymer Hole Transport Material for CsPbI <sub>2</sub> Br Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1292-1299.	17.4	81
54	Efficiency Enhancement of ZnO-Based Dye-Sensitized Solar Cells by Low-Temperature TiCl <sub>4</sub> Treatment and Dye Optimization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10949-10956.	3.1	80

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55	Similar Structural Dynamics for the Degradation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> in Air and in Vacuum. <i>ChemPhysChem</i> , 2015, 16, 3064-3071.	2.1	80
56	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. <i>RSC Advances</i> , 2017, 7, 9456-9460.	3.6	80
57	Nb <sub>2</sub> O <sub>5</sub> Blocking Layer for High Open-circuit Voltage Perovskite Solar Cells. <i>Chemistry Letters</i> , 2015, 44, 829-830.	1.3	79
58	Performance improvement of MXene-based perovskite solar cells upon property transition from metallic to semiconductive by oxidation of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> in air. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5016-5025.	10.3	77
59	Efficient perovskite solar cells fabricated using an aqueous lead nitrate precursor. <i>Chemical Communications</i> , 2015, 51, 13294-13297.	4.1	76
60	Role of Metal Oxide Electron Transport Layer Modification on the Stability of High Performing Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2559-2566.	6.8	76
61	Magnesium-doped Zinc Oxide as Electron Selective Contact Layers for Efficient Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2640-2647.	6.8	74
62	Organic Dye/Cs <sub>2</sub> AgBiBr <sub>6</sub> Double Perovskite Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2021, 143, 14877-14883.	13.7	74
63	Image sensing and processing by a bacteriorhodopsin-based artificial photoreceptor. <i>Applied Optics</i> , 1993, 32, 6371.	2.1	73
64	Efficient and stable plastic dye-sensitized solar cells based on a high light-harvesting ruthenium sensitizer. <i>Journal of Materials Chemistry</i> , 2009, 19, 5009.	6.7	72
65	Efficient and Environmentally Stable Perovskite Solar Cells Based on ZnO Electron Collection Layer. <i>Chemistry Letters</i> , 2015, 44, 610-612.	1.3	72
66	HC(NH <sub>2</sub> ) <sub>2</sub> PbI <sub>3</sub> as a thermally stable absorber for efficient ZnO-based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8435-8443.	10.3	72
67	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , 2016, 6, 34319.	3.3	72
68	PbI <sub>2</sub> -Based Dipping-Controlled Material Conversion for Compact Layer Free Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18156-18162.	8.0	71
69	A solid-state dye-sensitized photovoltaic cell with a poly(N-vinyl-carbazole) hole transporter mediated by an alkali iodide. <i>Chemical Communications</i> , 2005, , 1886.	4.1	69
70	Platinum/titanium bilayer deposited on polymer film as efficient counter electrodes for plastic dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2007, 90, 153122.	3.3	69
71	A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1773-1779.	4.6	69
72	Improvement in durability of flexible plastic dye-sensitized solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 836-839.	6.2	68

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73	Lead-free perovskite solar cells using Sb and Bi-based A <sub>3</sub> B <sub>2</sub> X <sub>9</sub> and A <sub>3</sub> BX <sub>6</sub> crystals with normal and inverse cell structures. <i>Nano Convergence</i> , 2017, 4, 26.	12.1	67
74	A SnO <sub>x</sub> brookite TiO <sub>2</sub> bilayer electron collector for hysteresis-less high efficiency plastic perovskite solar cells fabricated at low process temperature. <i>Chemical Communications</i> , 2016, 52, 8119-8122.	4.1	65
75	Co-sensitization promoted light harvesting for plastic dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 2416-2421.	7.8	64
76	UV Light-assisted Chemical Vapor Deposition of TiO <sub>2</sub> for Efficiency Development at Dye-sensitized Mesoporous Layers on Plastic Film Electrodes. <i>Chemistry Letters</i> , 2003, 32, 1076-1077.	1.3	62
77	Analysis of Sputtering Damage on $I-V$ Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28441-28447.	3.1	61
78	Formamidine and cesium-based quasi-two-dimensional perovskites as photovoltaic absorbers. <i>Chemical Communications</i> , 2017, 53, 4366-4369.	4.1	61
79	Dopant-free Polymer HTL-based CsPb <sub>2</sub> Br Solar Cells with Efficiency Over 17% in Sunlight and 34% in Indoor Light. <i>Advanced Functional Materials</i> , 2021, 31, 2103614.	14.9	60
80	Dopant-free Zinc Chlorophyll Aggregates as an Efficient Biocompatible Hole Transporter for Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2862-2869.	6.8	58
81	Photoactive Zn-Chlorophyll Hole Transporter-sensitized Lead-free Cs <sub>2</sub> AgBiBr <sub>6</sub> Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000166.	5.8	58
82	Polythiophene-Based Mesoporous Counter Electrodes for Plastic Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1195.	2.9	55
83	Performance enhancement of AgBi <sub>2</sub> I <sub>7</sub> solar cells by modulating a solvent-mediated adduct and tuning remnant Bi <sub>3</sub> in one-step crystallization. <i>Chemical Communications</i> , 2019, 55, 4031-4034.	4.1	54
84	Sensitized Yb <sup>3+</sup> Luminescence in CsPbCl <sub>3</sub> Film for Highly Efficient Near-Infrared Light-Emitting Diodes. <i>Advanced Science</i> , 2020, 7, 1903142.	11.2	54
85	Rectified photocurrents from purple membrane Langmuir-Blodgett films at the electrode-electrolyte interface. <i>Thin Solid Films</i> , 1992, 210-211, 146-149.	1.8	53
86	Mechanism of Photocurrent Generation from Bacteriorhodopsin on Gold Electrodes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 234-238.	2.6	51
87	Conductive Polymer-based Mesoscopic Counterelectrodes for Plastic Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2007, 36, 804-805.	1.3	51
88	Steady state performance, photo-induced performance degradation and their relation to transient hysteresis in perovskite solar cells. <i>Journal of Power Sources</i> , 2016, 309, 1-10.	7.8	49
89	First Evidence of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Optical Constants Improvement in a N <sub>2</sub> Environment in the Range 40–80 Å°C. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7703-7710.	3.1	49
90	Excitonic Feature in Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Single Crystals. <i>Chemistry Letters</i> , 2015, 44, 852-854.	1.3	48

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91	Revealing and reducing the possible recombination loss within TiO <sub>2</sub> compact layer by incorporating MgO layer in perovskite solar cells. <i>Solar Energy</i> , 2016, 136, 379-384.	6.1	48
92	Investigating the Growth of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Thin Films on RF-sputtered NiO <sub>x</sub> for Inverted Planar Perovskite Solar Cells: Effect of CH <sub>3</sub> NH <sub>3</sub> <sup>+</sup> Halide Additives versus CH <sub>3</sub> NH <sub>3</sub> <sup>+</sup> Halide Vapor Annealing. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901748.	3.7	48
93	Ionic Liquid-Assisted MAPbI <sub>3</sub> Nanoparticle-Seeded Growth for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21194-21206.	8.0	47
94	Solution-Processed Transparent Nickel-Mesh Counter Electrode with in-Situ Electrodeposited Platinum Nanoparticles for Full-Plastic Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8083-8091.	8.0	45
95	Vapor Annealing Controlled Crystal Growth and Photovoltaic Performance of Bismuth Triiodide Embedded in Mesoporous Configurations. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9547-9554.	8.0	45
96	Plastic based dye-sensitized solar cells using Co <sub>9</sub> S <sub>8</sub> acicular nanotube arrays as the counter electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13759.	10.3	44
97	Brookite TiO <sub>2</sub> as a low-temperature solution-processed mesoporous layer for hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20952-20957.	10.3	43
98	Plastic and Solid-state Dye-sensitized Solar Cells Incorporating Single-wall Carbon Nanotubes. <i>Chemistry Letters</i> , 2007, 36, 466-467.	1.3	42
99	Controlled Crystal Grain Growth in Mixed Cation Halide Perovskite by Evaporated Solvent Vapor Recycling Method for High Efficiency Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18739-18747.	8.0	42
100	Microstructural analysis and optical properties of the halide double perovskite Cs <sub>2</sub> BiAgBr <sub>6</sub> single crystals. <i>Chemical Physics Letters</i> , 2018, 694, 18-22.	2.6	42
101	Proton Irradiation Tolerance of High-Efficiency Perovskite Absorbers for Space Applications. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6990-6995.	4.6	42
102	Plastic Dye-sensitized Photovoltaic Cells and Modules Based on Low-temperature Preparation of Mesoscopic Titania Electrodes. <i>Electrochemistry</i> , 2007, 75, 2-12.	1.4	40
103	Copper iodide-PEDOT:PSS double hole transport layers for improved efficiency and stability in perovskite solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 357, 36-40.	3.9	40
104	Thiocyanate Containing Two-Dimensional Cesium Lead Iodide Perovskite, Cs <sub>2</sub> PbI <sub>2</sub> (SCN) <sub>2</sub> : Characterization, Photovoltaic Application, and Degradation Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42363-42371.	8.0	40
105	PHOTOELECTROCHEMICAL STUDY OF CHLOROPHYLL <i>a</i> MULTILAYERS ON SnO <sub>2</sub> ELECTRODE. <i>Photochemistry and Photobiology</i> , 1980, 32, 217-222.	2.5	39
106	High performance perovskite solar cell via multi-cycle low temperature processing of lead acetate precursor solutions. <i>Chemical Communications</i> , 2016, 52, 4784-4787.	4.1	39
107	Water-based Dye-sensitized Solar Cells: Interfacial Activation of TiO <sub>2</sub> Mesopores in Contact with Aqueous Electrolyte for Efficiency Development. <i>Chemistry Letters</i> , 2003, 32, 1154-1155.	1.3	37
108	Fully crystalline perovskite-perylene hybrid photovoltaic cell capable of 1.2 V output with a minimized voltage loss. <i>APL Materials</i> , 2014, 2, .	5.1	37



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109	Revealing a Discontinuity in the Degradation Behavior of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> during Thermal Operation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13577-13585.	3.1	37
110	Impacts of Heterogeneous TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> Composite Mesoporous Scaffold on Formamidinium Lead Trihalide Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4608-4615.	8.0	36
111	MAI-Assisted Ge Doping of Pb-Hybrid Perovskite: A Universal Route to Stabilize High Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903299.	19.5	36
112	Degradation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite due to soft x-ray irradiation as analyzed by an x-ray photoelectron spectroscopy time-dependent measurement method. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	34
113	Light Energy Conversion and Storage with Soft Carbonaceous Materials that Solidify Mesoscopic Electrochemical Interfaces. <i>Chemistry Letters</i> , 2007, 36, 480-487.	1.3	33
114	Alternation of Charge Injection and Recombination in Dye-Sensitized Solar Cells by the Addition of Nonconjugated Bridge to Organic Dyes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2024-2031.	3.1	33
115	Determination of Chloride Content in Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl Solar Cells by Chemical Analysis. <i>Chemistry Letters</i> , 2015, 44, 1089-1091.	1.3	33
116	Enhancement of the hole conducting effect of NiO by a N <sub>2</sub> blow drying method in printable perovskite solar cells with low-temperature carbon as the counter electrode. <i>Nanoscale</i> , 2017, 9, 5475-5482.	5.6	33
117	High Efficiency and Robust Performance of Organo Lead Perovskite Solar Cells with Large Grain Absorbers Prepared in Ambient Air Conditions. <i>Chemistry Letters</i> , 2015, 44, 321-323.	1.3	32
118	Nb-doped amorphous titanium oxide compact layer for formamidinium-based high efficiency perovskite solar cells by low-temperature fabrication. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9583-9591.	10.3	30
119	Ambient Fabrication of 126 $\mu$ m Thick Complete Perovskite Photovoltaic Device for High Flexibility and Performance. <i>ACS Applied Energy Materials</i> , 2018, 1, 6741-6747.	5.1	30
120	Efficiency Enhancement in ZnO:Al-Based Dye-Sensitized Solar Cells Structured with Sputtered TiO <sub>2</sub> Blocking Layers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6576-6585.	3.1	29
121	Thermal Degradation Analysis of Sealed Perovskite Solar Cell with Porous Carbon Electrode at 100% $\hat{A}^{\circ}$ C for 7000h. <i>Energy Technology</i> , 2019, 7, 245-252.	3.8	29
122	Low-Temperature Synthesized Nb-Doped TiO <sub>2</sub> Electron Transport Layer Enabling High-Efficiency Perovskite Solar Cells by Band Alignment Tuning. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15175-15182.	8.0	29
123	Low-temperature and Ambient Air Processes of Amorphous SnO <sub>x</sub> -based Mixed Halide Perovskite Planar Solar Cell. <i>Chemistry Letters</i> , 2017, 46, 382-384.	1.3	28
124	Concerted Ion Migration and Diffusion-Induced Degradation in Lead-Free Ag <sub>3</sub> Bi <sub>6</sub> Rudorffite Solar Cells under Ambient Conditions. <i>Solar Rrl</i> , 2021, 5, 2100077.	5.8	28
125	Trend of Perovskite Solar Cells: Dig Deeper to Build Higher. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2315-2317.	4.6	27
126	Effects of Cyclic Tetrapyrrole Rings of Aggregate-Forming Chlorophyll Derivatives as Hole-Transporting Materials on Performance of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 9-16.	5.1	27



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