Masashi Ikegami

List of Publications by Year
in descending order

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43 papers	2,458 citations	257450 24 h-index	330143 37 g-index
43 all docs	43 docs citations	43 times ranked	4398 citing authors

#	Article	IF	Citations
1	Evaluation of Damage Coefficient for Minority-Carrier Diffusion Length of Triple-Cation Perovskite Solar Cells under 1 MeV Electron Irradiation for Space Applications. Journal of Physical Chemistry C, 2021, 125, 13131-13137.	3.1	12
2	Dopantâ€Free Polymer HTMâ€Based CsPbI₂Br Solar Cells with Efficiency Over 17% in Sunlight and 34% in Indoor Light. Advanced Functional Materials, 2021, 31, 2103614.	14.9	60
3	Concerted Ion Migration and Diffusionâ€Induced Degradation in Leadâ€Free Ag₃BiI₆ Rudorffite Solar Cells under Ambient Conditions. Solar Rrl, 2021, 5, 2100077.	5.8	28
4	Tetrahydrofuran as an Oxygen Donor Additive to Enhance Stability and Reproducibility of Perovskite Solar Cells Fabricated in High Relative Humidity (50%) Atmosphere. Energy Technology, 2020, 8, 1900990.	3.8	6
5	Low-Temperature Synthesized Nb-Doped TiO₂ Electron Transport Layer Enabling High-Efficiency Perovskite Solar Cells by Band Alignment Tuning. ACS Applied Materials & Interfaces, 2020, 12, 15175-15182.	8.0	29
6	Proton Irradiation Tolerance of High-Efficiency Perovskite Absorbers for Space Applications. Journal of Physical Chemistry Letters, 2019, 10, 6990-6995.	4.6	42
7	Vapor Annealing Controlled Crystal Growth and Photovoltaic Performance of Bismuth Triiodide Embedded in Mesostructured Configurations. ACS Applied Materials & Interfaces, 2018, 10, 9547-9554.	8.0	45
8	Amorphous Metal Oxide Blocking Layers for Highly Efficient Low-Temperature Brookite TiO₂-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 2224-2229.	8.0	104
9	Spontaneous Synthesis of Highly Crystalline TiO₂ Compact/Mesoporous Stacked Films by a Low-Temperature Steam-Annealing Method for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 17195-17202.	8.0	11
10	Tolerance of Perovskite Solar Cell to High-Energy Particle Irradiations in Space Environment. IScience, 2018, 2, 148-155.	4.1	156
11	Ambient Fabrication of 126 Î¼m Thick Complete Perovskite Photovoltaic Device for High Flexibility and Performance. ACS Applied Energy Materials, 2018, 1, 6741-6747.	5.1	30
12	Tuning of perovskite solar cell performance via low-temperature brookite scaffolds surface modifications. APL Materials, 2017, 5, .	5.1	23
13	An Ultrathin Sputtered TiO₂ Compact Layer for Mesoporous Brookite-based Plastic CH₃NH₃PbI_{3â^'}_xCl_x Solar Cells. Chemistry Letters, 2017, 46, 530-532.	1.3	25
14	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. RSC Advances, 2017, 7, 9456-9460.	3.6	80
15	Solution-Processed Transparent Nickel-Mesh Counter Electrode with in-Situ Electrodeposited Platinum Nanoparticles for Full-Plastic Bifacial Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 8083-8091.	8.0	45
16	Photovoltaic Properties of Two-dimensional (CH₃(CH₂)₃NH₃)₂PbI₄ Perovskite Crystals Oriented with TiO₂ Nanowire Array. Chemistry Letters, 2017, 46, 1204-1206.	1.3	17
17	Poly(4â€Vinylpyridine)â€Based Interfacial Passivation to Enhance Voltage and Moisture Stability of Lead Halide Perovskite Solar Cells. ChemSusChem, 2017, 10, 2473-2479.	6.8	157
18	Solar Water Splitting Utilizing a SiC Photocathode, a BiVO₄ Photoanode, and a Perovskite Solar Cell. ChemSusChem, 2017, 10, 4420-4423.	6.8	24

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19	Lead-free perovskite solar cells using Sb and Bi-based A3B2X9 and A3BX6 crystals with normal and inverse cell structures. Nano Convergence, 2017, 4, 26.	12.1	67
20	Effect of Electron Transporting Layer on Bismuth-Based Lead-Free Perovskite (CH₃NH₃)₃ Bi₂I₉ for Photovoltaic Applications. ACS Applied Materials & Interfaces, 2016, 8, 14542-14547.	8.0	270
21	Anatase and Brookite Electron Collectors from Binder-free Precursor Pastes for Low-temperature Solution-processed Perovskite Solar Cells. Chemistry Letters, 2016, 45, 143-145.	1.3	11
22	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	3.3	72
23	A SnOxâ€“brookite TiO2 bilayer electron collector for hysteresis-less high efficiency plastic perovskite solar cells fabricated at low process temperature. Chemical Communications, 2016, 52, 8119-8122.	4.1	65
24	Characterization of Adhesion in Ceramics Coating by AE Technique. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, S0420105.	0.0	0
25	Improving the Stability of a Liquid-type Perovskite Solar Cell by Capping Spiro-OMeTAD Layer onto CH3NH3PbI3/TiO2 Film. Chemistry Letters, 2015, 44, 1446-1448.	1.3	1
26	Nb2O5 Blocking Layer for High Open-circuit Voltage Perovskite Solar Cells. Chemistry Letters, 2015, 44, 829-830.	1.3	79
27	Evaluation of radiation tolerance of perovskite solar cell for use in space. , 2015, , .		23
28	A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. Journal of Physical Chemistry Letters, 2015, 6, 1773-1779.	4.6	69
29	High Efficiency and Robust Performance of Organo Lead Perovskite Solar Cells with Large Grain Absorbers Prepared in Ambient Air Conditions. Chemistry Letters, 2015, 44, 321-323.	1.3	32
30	Brookite TiO₂ as a low-temperature solution-processed mesoporous layer for hybrid perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 20952-20957.	10.3	43
31	Emergence of Hysteresis and Transient Ferroelectric Response in Organo-Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 164-169.	4.6	283
32	Recent Research Topics of Dye-Sensitized Solar Cells. Journal of the Japan Society of Colour Material, 2015, 88, 218-222.	0.1	0
33	214 Mechanical study with AE Technique for Fracture Mechanism in Transparent Conductive Film under Tensile Loading. The Proceedings of the Materials and Processing Conference, 2015, 2015.23, _214-1_-_214-4_.	0.0	0
34	S0420102 AE Monitoring of Damage Process in Transparent Conductive Film under Tensile Loading. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _S0420102-_S0420102-.	0.0	0
35	MgO-hybridized TiO2 interfacial layers assisting efficiency enhancement of solid-state dye-sensitized solar cells. Applied Physics Letters, 2014, 104, .	3.3	5
36	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant <scp><scp>TiO</scp></scp>₂ for Superior Photovoltaic Performance. Journal of the American Ceramic Society, 2013, 96, 2636-2643.	3.8	26

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37	Plastic based dye-sensitized solar cells using Co9S8 acicular nanotube arrays as the counter electrode. Journal of Materials Chemistry A, 2013, 1, 13759.	10.3	44
38	Highly Luminescent Lead Bromide Perovskite Nanoparticles Synthesized with Porous Alumina Media. Chemistry Letters, 2012, 41, 397-399.	1.3	329
39	AE Monitoring of Damage Accumulation in Transparent Conductive Oxide Film under the Mechanical Strain. Journal of Solid Mechanics and Materials Engineering, 2011, 5, 774-779.	0.5	0
40	Stereocontrolled Synthesis and Photoisomerization Behavior of All-Cis and All-Trans Poly(m-phenylenevinylene)s. Macromolecules, 2010, 43, 6980-6985.	4.8	29
41	Efficient and stable plastic dye-sensitized solar cells based on a high light-harvesting ruthenium sensitizer. Journal of Materials Chemistry, 2009, 19, 5009.	6.7	72
42	Chlorin-sensitized High-efficiency Photovoltaic Cells that Mimic Spectral Response of Photosynthesis. Electrochemistry, 2008, 76, 140-143.	1.4	25
43	Effect of Thin TiO2 Buffer Layer on the Performance of Plastic-based Dye-sensitized Solar Cells Using Indoline Dye. Electrochemistry, 2008, 76, 158-160.	1.4	19