Masashi Ikegami

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9448644/publications.pdf

Version: 2024-02-01

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	Highly Luminescent Lead Bromide Perovskite Nanoparticles Synthesized with Porous Alumina Media. Chemistry Letters, 2012, 41, 397-399.	1.3	329
2	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
3	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
4	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
5	Tolerance of Perovskite Solar Cell to High-Energy Particle Irradiations in Space Environment. IScience, 2018, 2, 148-155.	4.1	156
6	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
7	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. RSC Advances, 2017, 7, 9456-9460.	3.6	80
8	Nb2O5 Blocking Layer for High Open-circuit Voltage Perovskite Solar Cells. Chemistry Letters, 2015, 44, 829-830.	1.3	79
9	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
10	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	3.3	72
11	A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. Journal of Physical Chemistry Letters, 2015, 6, 1773-1779.	4.6	69
12	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
13	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
14	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
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	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
17	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
18	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

#	Article	IF	Citations
19	Proton Irradiation Tolerance of High-Efficiency Perovskite Absorbers for Space Applications. Journal of Physical Chemistry Letters, 2019, 10, 6990-6995.	4.6	42
20	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
21	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
22	Stereocontrolled Synthesis and Photoisomerization Behavior of All-Cis and All-Trans Poly(m-phenylenevinylene)s. Macromolecules, 2010, 43, 6980-6985.	4.8	29
23	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
24	Concerted Ion Migration and Diffusionâ€Induced Degradation in Leadâ€Free Ag₃Bil₆ Rudorffite Solar Cells under Ambient Conditions. Solar Rrl, 2021, 5, 2100077.	5.8	28
25	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
26	Chlorin-sensitized High-efficiency Photovoltaic Cells that Mimic Spectral Response of Photosynthesis. Electrochemistry, 2008, 76, 140-143.	1.4	25
27	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
28	Solar Water Splitting Utilizing a SiC Photocathode, a BiVO₄ Photoanode, and a Perovskite Solar Cell. ChemSusChem, 2017, 10, 4420-4423.	6.8	24
29	Evaluation of radiation tolerance of perovskite solar cell for use in space. , 2015, , .		23
30	Tuning of perovskite solar cell performance via low-temperature brookite scaffolds surface modifications. APL Materials, 2017, 5, .	5.1	23
31	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
32	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
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	MgO-hybridized TiO2 interfacial layers assisting efficiency enhancement of solid-state dye-sensitized solar cells. Applied Physics Letters, 2014, 104, .	3.3	5
38	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
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	Recent Research Topics of Dye-Sensitized Solar Cells. Journal of the Japan Society of Colour Material, 2015, 88, 218-222.	0.1	0
41	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
42	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
43	Characterization of Adhesion in Ceramics Coating by AE Technique. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, S0420105.	0.0	0