

Youhei Numata

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,269
citations

516710

16
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Stability of solution-processed MAPbI ₃ and FAPbI ₃ layers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13413-13422.	2.8	208
3	<i>V</i> Over 1.4 V for Amorphous Tin-Oxide-Based Dopant-Free CsPbI ₂ Br Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 9725-9734.	13.7	162
4	Amorphous Metal Oxide Blocking Layers for Highly Efficient Low-Temperature Brookite TiO ₂ -Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2224-2229.	8.0	104
5	Nb ₂ O ₅ Blocking Layer for High Open-circuit Voltage Perovskite Solar Cells. <i>Chemistry Letters</i> , 2015, 44, 829-830.	1.3	79
6	Lead-free perovskite solar cells using Sb and Bi-based A ₃ B ₂ X ₉ and A ₃ BX ₆ crystals with normal and inverse cell structures. <i>Nano Convergence</i> , 2017, 4, 26.	12.1	67
7	Dopant-Free Polymer HTM-Based CsPbI ₂ 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
8	First Evidence of CH ₃ NH ₃ PbI ₃ Optical Constants Improvement in a N ₂ Environment in the Range 40–80 °C. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7703-7710.	3.1	49
9	Controlled Crystal Grain Growth in Mixed Cation-Halide Perovskite by Evaporated Solvent Vapor Recycling Method for High Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18739-18747.	8.0	42
10	Thiocyanate Containing Two-Dimensional Cesium Lead Iodide Perovskite, Cs ₂ PbI ₂ (SCN) ₂ : Characterization, Photovoltaic Application, and Degradation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42363-42371.	8.0	40
11	Revealing a Discontinuity in the Degradation Behavior of CH ₃ NH ₃ PbI ₃ during Thermal Operation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13577-13585.	3.1	37
12	Impacts of Heterogeneous TiO ₂ and Al ₂ O ₃ Composite Mesoporous Scaffold on Formamidinium Lead Trihalide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4608-4615.	8.0	36
13	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
14	Low-Temperature Synthesized Nb-Doped TiO ₂ Electron Transport Layer Enabling High-Efficiency Perovskite Solar Cells by Band Alignment Tuning. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15175-15182.	8.0	29
15	Solar Water Splitting Utilizing a SiC Photocathode, a BiVO ₄ Photoanode, and a Perovskite Solar Cell. <i>ChemSusChem</i> , 2017, 10, 4420-4423.	6.8	24
16	Photovoltaic Properties of Two-dimensional (CH ₃ NH ₃) ₂ PbI ₄ Perovskite Crystals Oriented with TiO ₂ Nanowire Array. <i>Chemistry Letters</i> , 2017, 46, 1204-1206.	1.3	17
17	Spontaneous Synthesis of Highly Crystalline TiO ₂ Compact/Mesoporous Stacked Films by a Low-Temperature Steam-Annealing Method for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17195-17202.	8.0	11
18	FAPbBr ₃ perovskite solar cells with <i>V</i> values over 1.5 V by controlled crystal growth using tetramethylenesulfoxide. <i>Journal of Materials Chemistry A</i> , 2022, 10, 672-681.	10.3	10

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19	Photocurrent Enhancement of Formamidinium Lead Trihalide Mesoscopic Perovskite Solar Cells with Large Size TiO ₂ Nanoparticles. Chemistry Letters, 2015, 44, 1619-1621.	1.3	8
20	Full Efficiency Recovery in Hole-Transporting Layer-Free Perovskite Solar Cells With Free-Standing Dry-Carbon Top-Contacts. Frontiers in Chemistry, 2020, 8, 200.	3.6	8
21	Formation of CsPbI ₃ γ -Phase at 80°C by Europium-Assisted Snowplow Effect. Advanced Energy and Sustainability Research, 2021, 2, 2100091.	5.8	8
22	Improved Electrical and Structural Stability in HTL-Free Perovskite Solar Cells by Vacuum Curing Treatment. Energies, 2020, 13, 3953.	3.1	7
23	Drastic Change of Surface Morphology of Cesium-Formamidinium Perovskite Solar Cells by Antisolvent Processing. ACS Applied Energy Materials, 2021, 4, 1069-1077.	5.1	4
24	Structural and Optical Behaviour of MAPbI ₃ Layers in Nitrogen and Humid Air. , 2018, , .		0
25	Why the gamma-phase of CsPbI ₃ can be formed at 80 C by adding Europium. , 0, , .		0