

Taketo Handa

List of Publications by Citations

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22
papers

745
citations

15
h-index

27
g-index

27
ext. papers

953
ext. citations

7.9
avg, IF

4.41
L-index

#	Paper	IF	Citations
22	Sn(IV)-free tin perovskite films realized by in situ Sn(0) nanoparticle treatment of the precursor solution. <i>Nature Communications</i> , 2020 , 11, 3008	17.4	114
21	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13221-13225	16.4	89
20	Charge Injection Mechanism at Heterointerfaces in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Revealed by Simultaneous Time-Resolved Photoluminescence and Photocurrent Measurements. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 954-960	6.4	72
19	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. <i>ACS Omega</i> , 2017 , 2, 7016-7021	3.9	61
18	Photocarrier Recombination and Injection Dynamics in Long-Term Stable Lead-Free CH ₃ NH ₃ SnI ₃ Perovskite Thin Films and Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16158-16165	3.8	61
17	One-step solution synthesis of white-light-emitting films via dimensionality control of the Cs ₂ Te ₂ I ₁₀ system. <i>APL Materials</i> , 2019 , 7, 111113	5.7	43
16	Photophysics of metal halide perovskites: From materials to devices. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 090101	1.4	42
15	Large negative thermo-optic coefficients of a lead halide perovskite. <i>Science Advances</i> , 2019 , 5, eaax0786	4.3	29
14	Radiative recombination and electron-phonon coupling in lead-free CH ₃ NH ₃ SnI ₃ perovskite thin films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	29
13	Charge Injection at the Heterointerface in Perovskite CH ₃ NH ₃ PbI ₃ Solar Cells Studied by Simultaneous Microscopic Photoluminescence and Photocurrent Imaging Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3186-91	6.4	29
12	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie</i> , 2018 , 130, 13405-13409	3.6	24
11	Photophysics of lead-free tin halide perovskite films and solar cells. <i>APL Materials</i> , 2019 , 7, 080903	5.7	24
10	Optical characterization of voltage-accelerated degradation in CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Optics Express</i> , 2016 , 24, A917-24	3.3	18
9	Structure-property relations in AgBi ₂ I ₆ compounds: potential Pb-free absorbers in solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5583-5588	13	15
8	Materials Chemistry Approach for Efficient Lead-Free Tin Halide Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3794-3804	4	14
7	Phonon, thermal, and thermo-optical properties of halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26069-26087	3.6	11
6	Light emission from halide perovskite semiconductors: bulk crystals, thin films, and nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 383001	3	9

5	Mixed lead-tin perovskite films with $>7 \text{ ns}$ charge carrier lifetimes realized by maltol post-treatment. <i>Chemical Science</i> , 2021 , 12, 13513-13519	9.4	7
4	Large thermal expansion leads to negative thermo-optic coefficient of halide perovskite $\text{CH}_3\text{NH}_3\text{PbCl}_3$. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
3	Optical responses of lead halide perovskite semiconductors. <i>Semiconductor Science and Technology</i> , 2020 , 35, 093001	1.8	5
2	Optimized Carrier Extraction at Interfaces for 23.6% Efficient Tin-Lead Perovskite Solar Cells		2
1	Near-Ultraviolet Transparent Organic Hole-Transporting Materials Containing Partially Oxygen-Bridged Triphenylamine Skeletons for Efficient Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1484-1495	6.1	1