

Bo Chen

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

6,283
citations

430442

18
h-index

752256

20
g-index

20
all docs

20
docs citations

20
times ranked

7262
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect passivation in hybrid perovskite solar cells using quaternary ammonium halide anions and cations. <i>Nature Energy</i> , 2017, 2, .	19.8	1,694
2	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , 2019, 48, 3842-3867.	18.7	1,257
3	Scaling behavior of moisture-induced grain degradation in polycrystalline hybrid perovskite thin films. <i>Energy and Environmental Science</i> , 2017, 10, 516-522.	15.6	720
4	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. <i>Science</i> , 2018, 360, 67-70.	6.0	554
5	Tailoring solvent coordination for high-speed, room-temperature blading of perovskite photovoltaic films. <i>Science Advances</i> , 2019, 5, eaax7537.	4.7	312
6	Efficient Semitransparent Perovskite Solar Cells for 23.0% Efficiency Perovskite/Silicon Four-Terminal Tandem Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1601128.	10.2	240
7	Scalable Fabrication of Efficient Perovskite Solar Modules on Flexible Glass Substrates. <i>Advanced Energy Materials</i> , 2020, 10, 1903108.	10.2	186
8	Efficient Flexible Solar Cell based on Composition-Tailored Hybrid Perovskite. <i>Advanced Materials</i> , 2017, 29, 1605900.	11.1	184
9	Matching Charge Extraction Contact for Wide-Bandgap Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700607.	11.1	178
10	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. <i>Science Advances</i> , 2021, 7, .	4.7	165
11	Excess charge-carrier induced instability of hybrid perovskites. <i>Nature Communications</i> , 2018, 9, 4981.	5.8	159
12	Spontaneous Passivation of Hybrid Perovskite by Sodium Ions from Glass Substrates: Mysterious Enhancement of Device Efficiency Revealed. <i>ACS Energy Letters</i> , 2017, 2, 1400-1406.	8.8	143
13	Large electrostrictive response in lead halide perovskites. <i>Nature Materials</i> , 2018, 17, 1020-1026.	13.3	137
14	Progress in Tandem Solar Cells Based on Hybrid Organic-Inorganic Perovskites. <i>Advanced Energy Materials</i> , 2017, 7, 1602400.	10.2	130
15	Synergistic Effect of Elevated Device Temperature and Excess Charge Carriers on the Rapid Light-Induced Degradation of Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1902413.	11.1	90
16	Recycling lead and transparent conductors from perovskite solar modules. <i>Nature Communications</i> , 2021, 12, 5859.	5.8	69
17	Reducing sputter induced stress and damage for efficient perovskite/silicon tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1343-1349.	5.2	27
18	Enhanced Piezoelectric Response in Hybrid Lead Halide Perovskite Thin Films via Interfacing with Ferroelectric $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19218-19225.	4.0	24

#	ARTICLE	IF	CITATIONS
19	Pulmonary Exposure to MagnÃ©li Phase Titanium Suboxides Results in Significant Macrophage Abnormalities and Decreased Lung Function. <i>Frontiers in Immunology</i> , 2019, 10, 2714.	2.2	12