

Jeffrey A Christians

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

8,962
citations

28
h-index

39
g-index

39
ext. papers

10,238
ext. citations

20.4
avg, IF

6.71
L-index

#	Paper	IF	Citations
34	Suppressing Cation Migration in Triple-Cation Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 2802-2810	28.1	26
33	Comment on "Light-induced lattice expansion leads to high-efficiency perovskite solar cells". <i>Science</i> , 2020 , 368,	33.3	26
32	Thermally Stable Perovskite Solar Cells by Systematic Molecular Design of the Hole-Transport Layer. <i>ACS Energy Letters</i> , 2019 , 4, 473-482	20.1	48
31	Doping strategies for small molecule organic hole-transport materials: impacts on perovskite solar cell performance and stability. <i>Chemical Science</i> , 2019 , 10, 1904-1935	9.4	168
30	Reactions at noble metal contacts with methylammonium lead triiodide perovskites: Role of underpotential deposition and electrochemistry. <i>APL Materials</i> , 2019 , 7, 041103	5.7	47
29	Insights into operational stability and processing of halide perovskite active layers. <i>Energy and Environmental Science</i> , 2019 , 12, 1341-1348	35.4	89
28	Substrate-Dependent Photoconductivity Dynamics in a High-Efficiency Hybrid Perovskite Alloy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3402-3415	3.8	8
27	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. <i>ACS Energy Letters</i> , 2018 , 3, 1192-1197	20.1	17
26	A quantitative and spatially resolved analysis of the performance-bottleneck in high efficiency, planar hybrid perovskite solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 960-969	35.4	34
25	Tailored interfaces of unencapsulated perovskite solar cells for >1,000 hour operational stability. <i>Nature Energy</i> , 2018 , 3, 68-74	62.3	588
24	Degradation of Highly Alloyed Metal Halide Perovskite Precursor Inks: Mechanism and Storage Solutions. <i>ACS Energy Letters</i> , 2018 , 3, 979-985	20.1	57
23	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10504-10513	16.4	208
22	Stability in Perovskite Photovoltaics: A Paradigm for Newfangled Technologies. <i>ACS Energy Letters</i> , 2018 , 3, 2136-2143	20.1	86
21	Probing Perovskite Inhomogeneity beyond the Surface: TOF-SIMS Analysis of Halide Perovskite Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28541-28552	9.5	49
20	Perovskite Quantum Dot Photovoltaic Materials beyond the Reach of Thin Films: Full-Range Tuning of A-Site Cation Composition. <i>ACS Nano</i> , 2018 , 12, 10327-10337	16.7	110
19	Stability at Scale: Challenges of Module Interconnects for Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2018 , 3, 2502-2503	20.1	23
18	Extrinsic ion migration in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1234-1242	35.4	336

17	Enhanced mobility CsPbI quantum dot arrays for record-efficiency, high-voltage photovoltaic cells. <i>Science Advances</i> , 2017 , 3, eaao4204	14.3	636
16	High-Performance Flexible Perovskite Solar Cells on Ultrathin Glass: Implications of the TCO. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4960-4966	6.4	85
15	Monitoring a Silent Phase Transition in CH ₃ NH ₃ PbI ₃ Solar Cells via Operando X-ray Diffraction. <i>ACS Energy Letters</i> , 2016 , 1, 1007-1012	20.1	43
14	High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organic-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31491-31499	9.5	116
13	Intriguing Optoelectronic Properties of Metal Halide Perovskites. <i>Chemical Reviews</i> , 2016 , 116, 12956-13008	30.8	987
12	Making and Breaking of Lead Halide Perovskites. <i>Accounts of Chemical Research</i> , 2016 , 49, 330-8	24.3	491
11	Structural and chemical evolution of methylammonium lead halide perovskites during thermal processing from solution. <i>Energy and Environmental Science</i> , 2016 , 9, 2072-2082	35.4	153
10	Quantum dot-induced phase stabilization of FAPbI_3 perovskite for high-efficiency photovoltaics. <i>Science</i> , 2016 , 354, 92-95	33.3	1786
9	Transformation of the excited state and photovoltaic efficiency of CH ₃ NH ₃ PbI ₃ perovskite upon controlled exposure to humidified air. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1530-8	16.4	972
8	Multifaceted Excited State of CH ₃ NH ₃ PbI ₃ . Charge Separation, Recombination, and Trapping. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2086-95	6.4	99
7	Best Practices in Perovskite Solar Cell Efficiency Measurements. Avoiding the Error of Making Bad Cells Look Good. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 852-7	6.4	245
6	Quantum dot solar cells: hole transfer as a limiting factor in boosting the photoconversion efficiency. <i>Langmuir</i> , 2014 , 30, 5716-25	4	112
5	An inorganic hole conductor for organo-lead halide perovskite solar cells. Improved hole conductivity with copper iodide. <i>Journal of the American Chemical Society</i> , 2014 , 136, 758-64	16.4	1048
4	CdSeS Nanowires: Compositionally Controlled Band Gap and Exciton Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1103-9	6.4	35
3	Rate limiting interfacial hole transfer in Sb ₂ S ₃ solid-state solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1148-1158	35.4	73
2	Trap and transfer. two-step hole injection across the Sb ₂ S ₃ /CuSCN interface in solid-state solar cells. <i>ACS Nano</i> , 2013 , 7, 7967-74	16.7	112
1	Wide dynamic range sensing with single quantum dot biosensors. <i>ACS Nano</i> , 2012 , 6, 8078-86	16.7	28