Jeffrey A Christians

List of Publications by Citations

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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	Quantum dot-induced phase stabilization of ECsPbI3 perovskite for high-efficiency photovoltaics. *Science*, **2016**, 354, 92-95	33.3	1786
33	An inorganic hole conductor for organo-lead halide perovskite solar cells. Improved hole conductivity with copper iodide. *Journal of the American Chemical Society*, **2014**, 136, 758-64	16.4	1048
32	Intriguing Optoelectronic Properties of Metal Halide Perovskites. *Chemical Reviews*, **2016**, 116, 12956-13008	60.8	987
31	Transformation of the excited state and photovoltaic efficiency of CH3NH3PbI3 perovskite upon controlled exposure to humidified air. *Journal of the American Chemical Society*, **2015**, 137, 1530-8	16.4	972
30	Enhanced mobility CsPbI quantum dot arrays for record-efficiency, high-voltage photovoltaic cells. *Science Advances*, **2017**, 3, eaao4204	14.3	636
29	Tailored interfaces of unencapsulated perovskite solar cells for >1,000 hour operational stability. *Nature Energy*, **2018**, 3, 68-74	62.3	588
28	Making and Breaking of Lead Halide Perovskites. *Accounts of Chemical Research*, **2016**, 49, 330-8	24.3	491
27	Extrinsic ion migration in perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 1234-1242	35.4	336
26	Best Practices in Perovskite Solar Cell Efficiency Measurements. Avoiding the Error of Making Bad Cells Look Good. *Journal of Physical Chemistry Letters*, **2015**, 6, 852-7	6.4	245
25	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. *Journal of the American Chemical Society*, **2018**, 140, 10504-10513	16.4	208
24	Doping strategies for small molecule organic hole-transport materials: impacts on perovskite solar cell performance and stability. *Chemical Science*, **2019**, 10, 1904-1935	9.4	168
23	Structural and chemical evolution of methylammonium lead halide perovskites during thermal processing from solution. *Energy and Environmental Science*, **2016**, 9, 2072-2082	35.4	153
22	High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organic-Inorganic Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 31491-31499	9.5	116
21	Quantum dot solar cells: hole transfer as a limiting factor in boosting the photoconversion efficiency. *Langmuir*, **2014**, 30, 5716-25	4	112
20	Trap and transfer. two-step hole injection across the Sb2S3/CuSCN interface in solid-state solar cells. *ACS Nano*, **2013**, 7, 7967-74	16.7	112
19	Perovskite Quantum Dot Photovoltaic Materials beyond the Reach of Thin Films: Full-Range Tuning of A-Site Cation Composition. *ACS Nano*, **2018**, 12, 10327-10337	16.7	110
18	Multifaceted Excited State of CH3NH3PbI3. Charge Separation, Recombination, and Trapping. *Journal of Physical Chemistry Letters*, **2015**, 6, 2086-95	6.4	99

17	Insights into operational stability and processing of halide perovskite active layers. *Energy and Environmental Science*, **2019**, 12, 1341-1348	35.4	89
16	Stability in Perovskite Photovoltaics: A Paradigm for Newfangled Technologies. *ACS Energy Letters*, **2018**, 3, 2136-2143	20.1	86
15	High-Performance Flexible Perovskite Solar Cells on Ultrathin Glass: Implications of the TCO. *Journal of Physical Chemistry Letters*, **2017**, 8, 4960-4966	6.4	85
14	Rate limiting interfacial hole transfer in Sb2S3 solid-state solar cells. *Energy and Environmental Science*, **2014**, 7, 1148-1158	35.4	73
13	Degradation of Highly Alloyed Metal Halide Perovskite Precursor Inks: Mechanism and Storage Solutions. *ACS Energy Letters*, **2018**, 3, 979-985	20.1	57
12	Probing Perovskite Inhomogeneity beyond the Surface: TOF-SIMS Analysis of Halide Perovskite Photovoltaic Devices. *ACS Applied Materials & Interfaces*, **2018**, 10, 28541-28552	9.5	49
11	Thermally Stable Perovskite Solar Cells by Systematic Molecular Design of the Hole-Transport Layer. *ACS Energy Letters*, **2019**, 4, 473-482	20.1	48
10	Reactions at noble metal contacts with methylammonium lead triiodide perovskites: Role of underpotential deposition and electrochemistry. *APL Materials*, **2019**, 7, 041103	5.7	47
9	Monitoring a Silent Phase Transition in CH3NH3PbI3 Solar Cells via Operando X-ray Diffraction. *ACS Energy Letters*, **2016**, 1, 1007-1012	20.1	43
8	CdSeS Nanowires: Compositionally Controlled Band Gap and Exciton Dynamics. *Journal of Physical Chemistry Letters*, **2014**, 5, 1103-9	6.4	35
7	A quantitative and spatially resolved analysis of the performance-bottleneck in high efficiency, planar hybrid perovskite solar cells. *Energy and Environmental Science*, **2018**, 11, 960-969	35.4	34
6	Wide dynamic range sensing with single quantum dot biosensors. *ACS Nano*, **2012**, 6, 8078-86	16.7	28
5	Suppressing Cation Migration in Triple-Cation Lead Halide Perovskites. *ACS Energy Letters*, **2020**, 5, 2802-2810	20.1	26
4	Comment on "Light-induced lattice expansion leads to high-efficiency perovskite solar cells". *Science*, **2020**, 368,	33.3	26
3	Stability at Scale: Challenges of Module Interconnects for Perovskite Photovoltaics. *ACS Energy Letters*, **2018**, 3, 2502-2503	20.1	23
2	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. *ACS Energy Letters*, **2018**, 3, 1192-1197	20.1	17
1	Substrate-Dependent Photoconductivity Dynamics in a High-Efficiency Hybrid Perovskite Alloy. *Journal of Physical Chemistry C*, **2019**, 123, 3402-3415	3.8	8