

# James M Ball

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

7,866  
citations

430874

18  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

9920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1511-1515.	4.6	2,190
2	Low-temperature processed meso-superstructured to thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1739.	30.8	1,509
3	Recombination Kinetics in Organic-Inorganic Perovskites: Excitons, Free Charge, and Subgap States. <i>Physical Review Applied</i> , 2014, 2, .	3.8	1,005
4	The Raman Spectrum of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskite: Interplay of Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 279-284.	4.6	555
5	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020, 369, 96-102.	12.6	461
6	Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 602-609.	30.8	417
7	Controlling competing photochemical reactions stabilizes perovskite solar cells. <i>Nature Photonics</i> , 2019, 13, 532-539.	31.4	273
8	Revealing Charge Carrier Mobility and Defect Densities in Metal Halide Perovskites via Space-Charge-Limited Current Measurements. <i>ACS Energy Letters</i> , 2021, 6, 1087-1094.	17.4	254
9	Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , 2015, 5, 1500962.	19.5	225
10	Toward Understanding Space-Charge Limited Current Measurements on Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 376-384.	17.4	211
11	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5038-5046.	14.9	198
12	Ion Migration and the Role of Preconditioning Cycles in the Stabilization of the J <sub>sc</sub> -V <sub>oc</sub> Characteristics of Inverted Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501453.	19.5	167
13	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. <i>Energy and Environmental Science</i> , 2019, 12, 169-176.	30.8	115
14	Metal composition influences optoelectronic quality in mixed-metal lead-tin triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , 2020, 13, 1776-1787.	30.8	87
15	A panchromatic anthracene-fused porphyrin sensitizer for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 6846.	3.6	59
16	Dual-Source Coevaporation of Low-Bandgap FA <sub>x</sub> Cs <sub>x</sub> Sn <sub>1-y</sub> Pb <sub>y</sub> I <sub>3</sub> Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 2748-2756.		43
17	Solvent-Free Method for Defect Reduction and Improved Performance of p-i-n Vapor-Deposited Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 1903-1911.	17.4	33
18	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2020, 10, 1903653.	19.5	28

#	ARTICLE	IF	CITATIONS
19	Visualizing Macroscopic Inhomogeneities in Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 2311-2322.	17.4	20
20	Time-Dependent Field Effect in Three-Dimensional Lead-Halide Perovskite Semiconductor Thin Films. ACS Applied Energy Materials, 2021, 4, 10603-10609.	5.1	9
21	Low-Cost Dopant-Free Carbazole Enamine Hole-Transporting Materials for Thermally Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	7
22	A Dimethylammonium-Induced Intermediate Phase Approach Towards Stable Formamidinium-Caesium-based Perovskite Solar Cells. , 0, , .		0
23	Defect Activity in Lead Halide Perovskites. , 0, , .		0
24	Solution-Processed All-Perovskite Multi-Junction Solar Cells. , 0, , .		0
25	Improving n-i-p Perovskite Solar Cells Stability through Transport Layers. , 0, , .		0