

# Aryeh Gold-Parker

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

3,706  
citations

430874

18  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

5868  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloying a single and a double perovskite: a Cu <sup>+2</sup> mixed-valence layered halide perovskite with strong optical absorption. <i>Chemical Science</i> , 2021, 12, 8689-8697.	7.4	24
2	Compositional heterogeneity in Cs <sub>1-x</sub> FA <sub>1-x</sub> Pb(Br <sub>x</sub> l <sub>1-x</sub> ) <sub>3</sub> perovskite films and its impact on phase behavior. <i>Energy and Environmental Science</i> , 2021, 14, 6394-6405.	30.8	20
3	Structural Origins of Light-Induced Phase Segregation in Organic-Inorganic Halide Perovskite Photovoltaic Materials. <i>Matter</i> , 2020, 2, 207-219.	10.0	128
4	Test of the Dynamic-Domain and Critical Scattering Hypotheses in Cubic Methylammonium Lead Triiodide. <i>Physical Review Letters</i> , 2020, 125, .	7.8	13
5	Degradation mechanisms in mixed-cation and mixed-halide Cs <sub>x</sub> FA <sub>1-x</sub> Pb(Br <sub>y</sub> l <sub>1-y</sub> ) <sub>3</sub> perovskite films under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9302-9312.	10.3	26
6	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. <i>Nature Energy</i> , 2019, 4, 197-205.	39.5	132
7	Tuning the bandgap of Cs <sub>2</sub> AgBiBr <sub>6</sub> through dilute tin alloying. <i>Chemical Science</i> , 2019, 10, 10620-10628.	7.4	58
8	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. <i>ACS Energy Letters</i> , 2018, 3, 1225-1232.	17.4	148
9	Acoustic phonon lifetimes limit thermal transport in methylammonium lead iodide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11905-11910.	7.1	81
10	Impact of Surfaces on Photoinduced Halide Segregation in Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , 2018, 3, 2694-2700.	17.4	184
11	Engineering Stress in Perovskite Solar Cells to Improve Stability. <i>Advanced Energy Materials</i> , 2018, 8, 1802139.	19.5	271
12	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018, 17, 900-907.	27.5	351
13	Tin <sup>II</sup> -lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2450-2459.	4.9	167
14	Transformation from crystalline precursor to perovskite in PbCl <sub>2</sub> -derived MAPbI <sub>3</sub> . <i>Nature Communications</i> , 2018, 9, 3458.	12.8	77
15	Defect-Induced Band-Edge Reconstruction of a Bismuth-Halide Double Perovskite for Visible-Light Absorption. <i>Journal of the American Chemical Society</i> , 2017, 139, 5015-5018.	13.7	288
16	Mechanism of Tin Oxidation and Stabilization by Lead Substitution in Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 2159-2165.	17.4	351
17	Band Gap Tuning via Lattice Contraction and Octahedral Tilting in Perovskite Materials for Photovoltaics. <i>Journal of the American Chemical Society</i> , 2017, 139, 11117-11124.	13.7	570
18	Chlorine in PbCl <sub>2</sub> -Derived Hybrid-Perovskite Solar Absorbers. <i>Chemistry of Materials</i> , 2015, 27, 7240-7243.	6.7	91

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19	Chloride in Lead Chloride-Derived Organo-Metal Halides for Perovskite-Absorber Solar Cells. Chemistry of Materials, 2014, 26, 7158-7165.	6.7	256
20	The Harvard Clean Energy Project: Large-Scale Computational Screening and Design of Organic Photovoltaics on the World Community Grid. Journal of Physical Chemistry Letters, 2011, 2, 2241-2251.	4.6	470
21	Designing Contact Layers and Surface Treatments to Overcome Performance Challenges for Perovskite Tandems. , 0, , .		0