

Ayan A Zhumeckenov

List of Publications by Citations

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24
papers

2,803
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24
ext. papers

3,426
ext. citations

16.8
avg, IF

4.74
L-index

#	Paper	IF	Citations
24	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773
23	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016 , 1, 32-37	20.1	551
22	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016 , 1, 840-845	20.1	367
21	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017 , 5, 1600704	8.1	277
20	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
19	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1119-1126	20.1	115
18	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 1782-1788	20.1	103
17	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI ₃ Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 657-662	20.1	96
16	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4386-4390	6.4	59
15	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
14	Double Charged Surface Layers in Lead Halide Perovskite Crystals. <i>Nano Letters</i> , 2017 , 17, 2021-2027	11.5	52
13	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019 , 7, 1900506	8.1	40
12	Probing buried recombination pathways in perovskite structures using 3D photoluminescence tomography. <i>Energy and Environmental Science</i> , 2018 , 11, 2846-2852	35.4	32
11	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , 2019 , 9, 1900084	21.8	30
10	Visualizing Buried Local Carrier Diffusion in Halide Perovskite Crystals via Two-Photon Microscopy. <i>ACS Energy Letters</i> , 2020 , 5, 117-123	20.1	20
9	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019 , 19, 3535-3542	11.5	17
8	Transition Dipole Moments of $n = 1, 2$, and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 716-723	6.4	14

7	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. <i>Joule</i> , 2021 , 5, 2027-20468	13
6	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 054001	3 11
5	Unraveling the Elastic Properties of (Quasi)Two-Dimensional Hybrid Perovskites: A Joint Experimental and Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17881-17892	9.5 10
4	Rotationally Free and Rigid Sublattices of the Single Crystal Perovskite CH ₃ NH ₃ PbBr ₃ (001): The Case of the Lattice Polar Liquid. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25506-25514	3.8 7
3	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. <i>Advanced Functional Materials</i> , 2021 , 31, 2008088	15.6 3
2	Perovskite Single Crystals: Synthesis, Properties and Devices. <i>Materials and Energy</i> , 2018 , 241-283	2
1	Engineering Band-Type Alignment in CsPbBr Perovskite-Based Artificial Multiple Quantum Wells. <i>Advanced Materials</i> , 2021 , 33, e2005166	24 1