

Bekir Turedi

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

2,983
citations

471371

17
h-index

794469

19
g-index

20
all docs

20
docs citations

20
times ranked

4593
citing authors

#	ARTICLE	IF	CITATIONS
1	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020, 5, 131-140.	19.8	894
2	Single-Crystal MAPbI ₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 1258-1259.	8.8	424
3	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1963-1976.	11.7	222
4	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017, 29, 7108-7113.	3.2	200
5	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI ₃ Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 657-662.	8.8	171
6	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016, 7, 13407.	5.8	170
7	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1782-1788.	8.8	155
8	22.8%-Efficient single-crystal mixed-cation inverted perovskite solar cells with a near-optimal bandgap. <i>Energy and Environmental Science</i> , 2021, 14, 2263-2268.	15.6	149
9	CsPb ₂ Br ₅ Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017, 10, 3746-3749.	3.6	130
10	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14128-14134.	1.5	78
11	Perovskite Single-Crystal Solar Cells: Going Forward. <i>ACS Energy Letters</i> , 2021, 6, 631-642.	8.8	74
12	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018, 3, 1492-1498.	8.8	70
13	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019, 7, 1900506.	3.6	60
14	Tellurium-Based Double Perovskites A ₂ TeX ₆ with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. <i>ACS Energy Letters</i> , 2019, 4, 228-234.	8.8	58
15	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , 2019, 9, 1900084.	10.2	54
16	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019, 19, 3535-3542.	4.5	27
17	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3295-3303.	8.8	23
18	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 1987-1993.	8.8	14

#	ARTICLE	IF	CITATIONS
19	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. <i>Advanced Functional Materials</i> , 2021, 31, 2008088.	7.8	8