

Bekir Turedi

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.

19
papers

1,937
citations

16
h-index

20
g-index

20
ext. papers

2,450
ext. citations

19.8
avg, IF

4.8
L-index

#	Paper	IF	Citations
19	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140	62.3	552
18	Single-Crystal MAPbI ₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019 , 4, 1258-1259	20.1	291
17	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 7108-7113	9.6	160
16	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
15	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016 , 7, 13407	17.4	140
14	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 1782-1788	20.1	103
13	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
12	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017 , 10, 3746-3749	8.3	93
11	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	35.4	64
10	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14128-14134	3.8	56
9	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
8	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019 , 7, 1900506	8.1	40
7	Perovskite Single-Crystal Solar Cells: Going Forward. <i>ACS Energy Letters</i> , 2021 , 6, 631-642	20.1	37
6	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	20.1	34
5	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
4	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019 , 19, 3535-3542	11.5	17
3	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3295-3303	20.1	6

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| 2 | Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 1987-1993 | 20.1 | 4 |
| 1 | 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 |