

Alexander R Uhl

List of Publications by Year in descending order

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20
papers

4,151
citations

430442

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713013

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docs citations

22
times ranked

5756
citing authors

#	ARTICLE	IF	CITATIONS
1	Potassium-induced surface modification of Cu(In,Ga)Se ₂ thin films for high-efficiency solar cells. Nature Materials, 2013, 12, 1107-1111.	13.3	1,161
2	Highly efficient Cu(In,Ga)Se ₂ solar cells grown on flexible polymer films. Nature Materials, 2011, 10, 857-861.	13.3	796
3	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543.	4.7	524
4	New-generation integrated devices based on dye-sensitized and perovskite solar cells. Energy and Environmental Science, 2018, 11, 476-526.	15.6	364
5	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	5.8	268
6	Sodium Assisted Sintering of Chalcogenides and Its Application to Solution Processed Cu ₂ ZnSn(S,Se) ₄ Thin Film Solar Cells. Chemistry of Materials, 2014, 26, 1420-1425.	3.2	189
7	Current-Induced Phase Segregation in Mixed Halide Hybrid Perovskites and its Impact on Two-Terminal Tandem Solar Cell Design. ACS Energy Letters, 2017, 2, 1841-1847.	8.8	161
8	Highly Transparent and Conductive ZnO: Al Thin Films from a Low Temperature Aqueous Solution Approach. Advanced Materials, 2014, 26, 632-636.	11.1	152
9	All Solution-Processed Chalcogenide Solar Cells from Single Functional Layers Towards a 13.8% Efficient CIGS Device. Advanced Functional Materials, 2015, 25, 12-27.	7.8	84
10	Non-vacuum deposition of Cu(In,Ga)Se ₂ absorber layers from binder free, alcohol solutions. Progress in Photovoltaics: Research and Applications, 2012, 20, 526-533.	4.4	75
11	Cu ₂ ZnSnSe ₄ absorbers processed from solution deposited metal salt precursors under different selenization conditions. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1043-1048.	0.8	64
12	Present Status of Solution-Processing Routes for Cu(In,Ga)(S,Se) ₂ Solar Cell Absorbers. Advanced Energy Materials, 2021, 11, 2003743.	10.2	57
13	Solution-Processed Low-Bandgap CuIn(S,Se) ₂ Absorbers for High-Efficiency Single-Junction and Monolithic Chalcopyrite-Perovskite Tandem Solar Cells. Advanced Energy Materials, 2018, 8, 1801254.	10.2	56
14	Formation mechanism of Cu ₂ ZnSnSe ₄ absorber layers during selenization of solution deposited metal precursors. Journal of Alloys and Compounds, 2013, 567, 102-106.	2.8	44
15	Evolution of Morphology and Composition during Annealing and Selenization in Solution-Processed Cu ₂ ZnSn(S,Se) ₄ . Chemistry of Materials, 2017, 29, 9328-9339.	3.2	36
16	Liquid-selenium-enhanced grain growth of nanoparticle precursor layers for CuInSe ₂ solar cell absorbers. Progress in Photovoltaics: Research and Applications, 2015, 23, 1110-1119.	4.4	34
17	Thin film Cu(In,Ga)Se ₂ solar cells processed from solution pastes with polymethyl methacrylate binder. Thin Solid Films, 2011, 519, 7259-7263.	0.8	32
18	Solution-processed chalcopyrite-perovskite tandem solar cells in bandgap-matched two- and four-terminal architectures. Journal of Materials Chemistry A, 2017, 5, 3214-3220.	5.2	23

#	ARTICLE	IF	CITATIONS
19	Extrinsic Doping of Ink-Based Cu(In,Ga)(S,Se) ₂ Absorbers for Photovoltaic Applications. Advanced Energy Materials, 2022, 12, .	10.2	13
20	Large-grained Cu ₂ ZnSnS ₄ layers sintered from Sn-rich solution-deposited precursors. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 121-125.	0.8	8