## Lukas Kegelmann

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1877577/publications.pdf

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16 papers	3,291 citations	14 h-index	940416 16 g-index
16	16	16	4136 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. Science, 2020, 370, 1300-1309.	6.0	1,120
2	The impact of energy alignment and interfacial recombination on the internal and external open-circuit voltage of perovskite solar cells. Energy and Environmental Science, 2019, 12, 2778-2788.	15.6	570
3	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536
4	Monolithic Perovskite Tandem Solar Cells: A Review of the Present Status and Advanced Characterization Methods Toward 30% Efficiency. Advanced Energy Materials, 2020, 10, 1904102.	10.2	321
5	Highly efficient monolithic perovskite silicon tandem solar cells: analyzing the influence of current mismatch on device performance. Sustainable Energy and Fuels, 2019, 3, 1995-2005.	2.5	208
6	It Takes Two to Tangoâ€"Double-Layer Selective Contacts in Perovskite Solar Cells for Improved Device Performance and Reduced Hysteresis. ACS Applied Materials & Samp; Interfaces, 2017, 9, 17245-17255.	4.0	107
7	Efficient Light Management by Textured Nanoimprinted Layers for Perovskite Solar Cells. ACS Photonics, 2017, 4, 1232-1239.	3.2	103
8	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. Energy and Environmental Science, 2021, 14, 4508-4522.	15.6	76
9	Compositional and Interfacial Engineering Yield High-Performance and Stable p-i-n Perovskite Solar Cells and Mini-Modules. ACS Applied Materials & Samp; Interfaces, 2021, 13, 13022-13033.	4.0	69
10	Three-Terminal Perovskite/Silicon Tandem Solar Cells with Top and Interdigitated Rear Contacts. ACS Applied Energy Materials, 2020, 3, 1381-1392.	2.5	63
11	Roomâ€Temperature Atomicâ€Layerâ€Deposited Al <sub>2</sub> O <sub>3</sub> Improves the Efficiency of Perovskite Solar Cells over Time. ChemSusChem, 2018, 11, 3640-3648.	3.6	33
12	Mixtures of Dopant-Free Spiro-OMeTAD and Water-Free PEDOT as a Passivating Hole Contact in Perovskite Solar Cells. ACS Applied Materials & Samp; Interfaces, 2019, 11, 9172-9181.	4.0	28
13	Improved Quantum Efficiency by Advanced Light Management in Nanotextured Solution-Processed Perovskite Solar Cells. ACS Photonics, 2020, 7, 2589-2600.	3.2	27
14	In situ Nearâ€Ambient Pressure Xâ€ray Photoelectron Spectroscopy Reveals the Influence of Photon Flux and Water on the Stability of Halide Perovskite. ChemSusChem, 2020, 13, 5722-5730.	3.6	15
15	Al 2 O 3 â€Atomic Layer Deposited Films on CH 3 NH 3 Pbl 3 : Intrinsic Defects and Passivation Mechanisms. Energy Technology, 2019, 7, 1900975.	1.8	8
16	Point Defect-Mediated Interface Formation and Appearance of a Cooper Minimum for AlO <i><sub>x</sub></i> Atomic-Layer-Deposited Films on CH <sub>3</sub> NH <sub>3</sub> Pbl <sub>3</sub> . Journal of Physical Chemistry C, 2019, 123, 23352-23360.	1,5	7