Lukas Kegelmann

List of Publications by Year
in descending order

16	3,291	623574 14	940416 16
papers	citations	h-index	g-index

16	16	16	4136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Compositional and Interfacial Engineering Yield High-Performance and Stable p-i-n Perovskite Solar Cells and Mini-Modules. ACS Applied Materials & Interfaces, 2021, 13, 13022-13033.	4.0	69
3	Improved Quantum Efficiency by Advanced Light Management in Nanotextured Solution-Processed Perovskite Solar Cells. ACS Photonics, 2020, 7, 2589-2600.	3.2	27
4	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
5	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. Science, 2020, 370, 1300-1309.	6.0	1,120
6	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
7	Three-Terminal Perovskite/Silicon Tandem Solar Cells with Top and Interdigitated Rear Contacts. ACS Applied Energy Materials, 2020, 3, 1381-1392.	2.5	63
8	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
9	Al 2 O 3 â€Atomic Layer Deposited Films on CH 3 NH 3 PbI 3 : Intrinsic Defects and Passivation Mechanisms. Energy Technology, 2019, 7, 1900975.	1.8	8
10	Point Defect-Mediated Interface Formation and Appearance of a Cooper Minimum for AlO_x Atomic-Layer-Deposited Films on CH₃NH₃PbI₃. Journal of Physical Chemistry C, 2019, 123, 23352-23360.	1.5	7
11	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
12	Mixtures of Dopant-Free Spiro-OMeTAD and Water-Free PEDOT as a Passivating Hole Contact in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 9172-9181.	4.0	28
13	Roomâ€Temperature Atomicâ€Layerâ€Deposited Al₂O₃ Improves the Efficiency of Perovskite Solar Cells over Time. ChemSusChem, 2018, 11, 3640-3648.	3.6	33
14	Efficient Light Management by Textured Nanoimprinted Layers for Perovskite Solar Cells. ACS Photonics, 2017, 4, 1232-1239.	3.2	103
15	It Takes Two to Tangoâ€”Double-Layer Selective Contacts in Perovskite Solar Cells for Improved Device Performance and Reduced Hysteresis. ACS Applied Materials & Interfaces, 2017, 9, 17245-17255.	4.0	107
16	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536