Kexun Chen

List of Publications by Year
in descending order

12	358	1306789 7	1199166 12
papers	citations	h-index	g-index

12	12	12	317
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tailoring Femtosecondâ€Laser Processed Black Silicon for Reduced Carrier Recombination Combined with >95% Aboveâ€Bandgap Absorption. Advanced Photonics Research, 2022, 3, .	1.7	7
2	Electron Injection in Metal Assisted Chemical Etching as a Fundamental Mechanism for Electroless Electricity Generation. Journal of Physical Chemistry Letters, 2022, 13, 5648-5653.	2.1	9
3	Perspectives on Black Silicon in Semiconductor Manufacturing: Experimental Comparison of Plasma Etching, MACE, and Fs-Laser Etching. IEEE Transactions on Semiconductor Manufacturing, 2022, 35, 504-510.	1.4	17
4	Millisecond-Level Minority Carrier Lifetime in Femtosecond Laser-Textured Black Silicon. IEEE Photonics Technology Letters, 2022, 34, 870-873.	1.3	8
5	Efficient photon capture on germanium surfaces using industrially feasible nanostructure formation. Nanotechnology, 2021, 32, 035301.	1.3	5
6	Harnessing Carrier Multiplication in Silicon Solar Cells Using UV Photons. IEEE Photonics Technology Letters, 2021, 33, 1415-1418.	1.3	7
7	Decreasing Interface Defect Densities via Silicon Oxide Passivation at Temperatures Below 450 Â°C. ACS Applied Materials & Interfaces, 2020, 12, 46933-46941.	4.0	6
8	Nanostructured Germanium with >99% Absorption at 300â€“1600 nm Wavelengths. Advanced Optical Materials, 2020, 8, 2000047.	3.6	18
9	Effect of MACE Parameters on Electrical and Optical Properties of ALD Passivated Black Silicon. IEEE Journal of Photovoltaics, 2019, 9, 974-979.	1.5	24
10	MACE nano-texture process applicable for both single- and multi-crystalline diamond-wire sawn Si solar cells. Solar Energy Materials and Solar Cells, 2019, 191, 1-8.	3.0	40
11	Next-generation multi-crystalline silicon solar cells: Diamond-wire sawing, nano-texture and high efficiency. Solar Energy Materials and Solar Cells, 2015, 141, 132-138.	3.0	114
12	18.45%â€Efficient Multiâ€Crystalline Silicon Solar Cells with Novel Nanoscale Pseudoâ€Pyramid Texture. Advanced Functional Materials, 2014, 24, 6708-6716.	7.8	103