

# Kexun Chen

## List of Publications by Year in descending order

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12  
papers

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317  
citing authors

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