Asman Tamang

List of Publications by Year
in descending order

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13 papers	224 citations	1040056 9 h-index	1125743 13 g-index
13 all docs	13 docs citations	13 times ranked	307 citing authors

#	Article	IF	Citations
1	Enhanced photon management in silicon thin film solar cells with different front and back interface texture. Scientific Reports, 2016, 6, 29639.	3.3	46
2	Light-Trapping and Interface Morphologies of Amorphous Silicon Solar Cells on Multiscale Surface Textured Substrates. IEEE Journal of Photovoltaics, 2014, 4, 16-21.	2.5	34
3	On the interplay of cell thickness and optimum period of silicon thinâ€film solar cells: light trapping and plasmonic losses. Progress in Photovoltaics: Research and Applications, 2016, 24, 379-388.	8.1	27
4	On the interplay of interface morphology and microstructure of high-efficiency microcrystalline silicon solar cells. Solar Energy Materials and Solar Cells, 2016, 151, 81-88.	6.2	21
5	From randomly self-textured substrates to highly efficient thin film solar cells: Influence of geometric interface engineering on light trapping, plasmonic losses and charge extraction. Solar Energy Materials and Solar Cells, 2017, 160, 141-148.	6.2	21
6	Towards 3D organic solar cells. Nano Energy, 2017, 31, 582-589.	16.0	18
7	Comparison of Light Trapping in Silicon Nanowire and Surface Textured Thin-Film Solar Cells. Applied Sciences (Switzerland), 2017, 7, 427.	2.5	12
8	Color Sensing by Optical Antennas: Approaching the Quantum Efficiency Limit. ACS Photonics, 2019, 6, 2041-2048.	6.6	12
9	Enhancing the energy conversion efficiency of low mobility solar cells by a 3D device architecture. Journal of Materials Chemistry C, 2019, 7, 10289-10296.	5.5	10
10	Combining Photosynthesis and Photovoltaics: A Hybrid Energy-Harvesting System Using Optical Antennas. ACS Applied Materials & Interfaces, 2020, 12, 40261-40268.	8.0	8
11	Band-Gap-Engineered Transparent Perovskite Solar Modules to Combine Photovoltaics with Photosynthesis. ACS Applied Materials & Interfaces, 2021, 13, 39230-39238.	8.0	8
12	Tiling of Solar Cell Surfaces: Influence on Photon Management and Microstructure. Advanced Materials Interfaces, 2018, 5, 1700814.	3.7	5
13	Silicon Thin-Film Solar Cells Approaching the Geometric Light-Trapping Limit: Surface Texture Inspired by Self-Assembly Processes. ACS Photonics, 2018, 5, 2799-2806.	6.6	2