Joel Jean

List of Publications by Year
in descending order

18 papers	2,170 citations	516710 16 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	4175 citing authors

#	Article	IF	Citations
1	Solid-state infrared-to-visible upconversion sensitized by colloidal nanocrystals. Nature Photonics, 2016, 10, 31-34.	31.4	418
2	Pathways for solar photovoltaics. Energy and Environmental Science, 2015, 8, 1200-1219.	30.8	385
3	ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells. Advanced Materials, 2013, 25, 2790-2796.	21.0	251
4	Open-Circuit Voltage Deficit, Radiative Sub-Bandgap States, and Prospects in Quantum Dot Solar Cells. Nano Letters, 2015, 15, 3286-3294.	9.1	223
5	Graphene Cathode-Based ZnO Nanowire Hybrid Solar Cells. Nano Letters, 2013, 13, 233-239.	9.1	193
6	Strongly Enhanced Photovoltaic Performance and Defect Physics of Airâ€Stable Bismuth Oxyiodide (BiOI). Advanced Materials, 2017, 29, 1702176.	21.0	139
7	Synthesis cost dictates the commercial viability of lead sulfide and perovskite quantum dot photovoltaics. Energy and Environmental Science, 2018, 11, 2295-2305.	30.8	106
8	Radiative Efficiency Limit with Band Tailing Exceeds 30% for Quantum Dot Solar Cells. ACS Energy Letters, 2017, 2, 2616-2624.	17.4	92
9	In situ vapor-deposited parylene substrates for ultra-thin, lightweight organic solar cells. Organic Electronics, 2016, 31, 120-126.	2.6	63
10	Epitaxial Dimers and Auger-Assisted Detrapping in PbS Quantum Dot Solids. Matter, 2019, 1, 250-265.	10.0	56
11	A model for emission yield from planar photocathodes based on photon-enhanced thermionic emission or negative-electron-affinity photoemission. Journal of Applied Physics, 2012, 112, .	2.5	53
12	Benefit from Photon Recycling at the Maximum-Power Point of State-of-the-Art Perovskite Solar Cells. Physical Review Applied, 2019, 12, .	3.8	50
13	Accelerating Photovoltaic Market Entry with Module Replacement. Joule, 2019, 3, 2824-2841.	24.0	44
14	Interference-enhanced infrared-to-visible upconversion in solid-state thin films sensitized by colloidal nanocrystals. Applied Physics Letters, 2017, 110, .	3.3	39
15	Developing a Robust Recombination Contact to Realize Monolithic Perovskite Tandems With Industrially Common p-Type Silicon Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1023-1028.	2.5	27
16	Getting high with quantum dot solar cells. Nature Energy, 2020, 5, 10-11.	39.5	18
17	Guaranteed global optimization of thin-film optical systems. New Journal of Physics, 2019, 21, 073050.	2.9	10
18	ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	21.0	2