

Benjamin G Lee

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

364
citations

1040056

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h-index

1372567

10
g-index

22
all docs

22
docs citations

22
times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Strained Interface Defects in Silicon Nanocrystals. <i>Advanced Functional Materials</i> , 2012, 22, 3223-3232.	14.9	63
2	Quasi-Direct Optical Transitions in Silicon Nanocrystals with Intensity Exceeding the Bulk. <i>Nano Letters</i> , 2016, 16, 1583-1589.	9.1	62
3	Rear side sphere gratings for improved light trapping in crystalline silicon single junction and silicon-based tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 142, 60-65.	6.2	35
4	Design Criteria for Micro-Optical Tandem Luminescent Solar Concentrators. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1560-1567.	2.5	35
5	Light trapping by a dielectric nanoparticle back reflector in film silicon solar cells. <i>Applied Physics Letters</i> , 2011, 99, 064101.	3.3	34
6	Carotenoid Nuclear Reorganization and Interplay of Bright and Dark Excited States. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8628-8643.	2.6	27
7	Transparent Conductive Adhesives for Tandem Solar Cells Using Polymer-Particle Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8086-8091.	8.0	25
8	Pyramidal light trapping and hydrogen passivation for high-efficiency heteroepitaxial (100) crystal silicon solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 8193.	30.8	21
9	Excellent passivation and low reflectivity Al ₂ O ₃ /TiO ₂ bilayer coatings for n-wafer silicon solar cells. , 2012, , .		14
10	Systematic analysis of diffuse rear reflectors for enhanced light trapping in silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 152, 80-86.	6.2	13
11	Comparison of thin epitaxial film silicon photovoltaics fabricated on monocrystalline and polycrystalline seed layers on glass. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 909-917.	8.1	9
12	Micro-optical Tandem Luminescent Solar Concentrator. , 2017, , .		6
13	Light trapping for thin silicon solar cells by femtosecond laser texturing. , 2012, , .		5
14	Transparent Conductive Adhesives for Tandem Solar Cells. , 2017, , .		5
15	600 mV epitaxial crystal silicon solar cells grown on seeded glass. , 2013, , .		4
16	Atomic scale understanding of poly-Si/SiO ₂ /c-Si passivated contacts: Passivation degradation due to metallization. , 2016, , .		3
17	Nickel silicide metallization for passivated tunneling contacts for silicon solar cells. , 2016, , .		2
18	Plasma immersion ion implantation for interdigitated back passivated contact (IBPC) solar cells. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Silicon quantum dot optical properties and synthesis: Implications for photovoltaic devices. , 2010, , .		0
20	PERFORMANCE of HYDROGENATED a-Si:H SOLAR CELLS with DOWNSHIFTING COATING. Materials Research Society Symposia Proceedings, 2011, 1321, 105.	0.1	0
21	Dopant Patterning by PECVD and Mechanical Masking for Passivated Tunneling Contact IBC Cell Architectures. , 2017, , .		0
22	Self Aligned Aluminum Selective Emitter for n-type Si Cells. , 2017, , .		0