

Lauryn L Baranowski

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,353
citations

430874

18
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

1956
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentrated solar thermoelectric generators. <i>Energy and Environmental Science</i> , 2012, 5, 9055.	30.8	227
2	Control of Doping in Cu_2SnS_3 through Defects and Alloying. <i>Chemistry of Materials</i> , 2014, 26, 4951-4959.	6.7	136
3	Evaluation of photovoltaic materials within the Cu-Sn-S family. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	117
4	Effective thermal conductivity in thermoelectric materials. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	86
5	CuSbSe_2 photovoltaic devices with 3% efficiency. <i>Applied Physics Express</i> , 2015, 8, 082301.	2.4	81
6	A review of defects and disorder in multinary tetrahedrally bonded semiconductors. <i>Semiconductor Science and Technology</i> , 2016, 31, 123004.	2.0	74
7	Accelerated development of CuSbS_2 thin film photovoltaic device prototypes. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 929-939.	8.1	74
8	Effects of Disorder on Carrier Transport in Cu_2SnS_3 . <i>Physical Review Applied</i> , 2015, 4, .	3.8	73
9	Combinatorial Reactive Sputtering of In_2S_3 as an Alternative Contact Layer for Thin Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14004-14011.	8.0	67
10	Effects of Thermochemical Treatment on CuSbS_2 Photovoltaic Absorber Quality and Solar Cell Reproducibility. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18377-18385.	3.1	67
11	Trade-offs in Thin Film Solar Cells with Layered Chalcostibite Photovoltaic Absorbers. <i>Advanced Energy Materials</i> , 2017, 7, 1601935.	19.5	58
12	Synthesis and optical band gaps of alloyed Si-Ge type II clathrates. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3231-3237.	5.5	55
13	Multi-Scale Mechanical Behavior of the Li_3PS_4 Solid-Phase Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29573-29579.	8.0	55
14	Intrinsic chemical reactivity of solid-electrolyte interphase components in silicon-lithium alloy anode batteries probed by FTIR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7897-7906.	10.3	49
15	Efficient route to phase selective synthesis of type II silicon clathrates with low sodium occupancy. <i>CrystEngComm</i> , 2014, 16, 3940-3949.	2.6	39
16	High-Temperature High-Efficiency Solar Thermoelectric Generators. <i>Journal of Electronic Materials</i> , 2014, 43, 2348-2355.	2.2	33
17	Response to "Comment on "Effective thermal conductivity in thermoelectric materials" <i>J. Appl. Phys.</i> 113, 204904 (2013)]. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	23
18	Combinatorial Chemical Bath Deposition of CdS Contacts for Chalcogenide Photovoltaics. <i>ACS Combinatorial Science</i> , 2016, 18, 583-589.	3.8	23

#	ARTICLE	IF	CITATIONS
19	Conduction band position tuning and Ga-doping in (Cd,Zn)S alloy thin films. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1342-1348.	5.9	6
20	Comparison of Cu_2SnS_3 and CuSbS_2 as potential solar cell absorbers. , 2014, , .		5
21	Thermal treatment improvement of CuSbS_2 absorbers. , 2015, , .		4
22	Copper antimony chalcogenide thin film PV device development. , 2015, , .		1
23	Solar Cells: Tradeoffs in Thin Film Solar Cells with Layered Chalcostibite Photovoltaic Absorbers (<i>Adv. Energy Mater.</i> 11/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	0