

Mark T Winkler

List of Publications by Year in descending order

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20
papers

4,441
citations

430874

18
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

4737
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Layer Deposited Aluminum Oxide for Interface Passivation of Cu ₂ ZnSn(S,Se) ₄ Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600198.	19.5	75
2	Picosecond carrier recombination dynamics in chalcogen-hyperdoped silicon. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	42
3	Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. <i>Advanced Energy Materials</i> , 2014, 4, 1301465.	19.5	2,651
4	Optical designs that improve the efficiency of Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1029-1036.	30.8	200
5	Room-temperature sub-band gap optoelectronic response of hyperdoped silicon. <i>Nature Communications</i> , 2014, 5, 3011.	12.8	202
6	Supersaturating silicon with transition metals by ion implantation and pulsed laser melting. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	59
7	Nitrogen-doped cuprous oxide as a p-type hole-transporting layer in thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15416.	10.3	108
8	Mid-infrared absorptance of silicon hyperdoped with chalcogen via fs-laser irradiation. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	37
9	Selenium Segregation in Femtosecond-Laser Hyperdoped Silicon Revealed by Electron Tomography. <i>Microscopy and Microanalysis</i> , 2013, 19, 716-725.	0.4	10
10	Interfaces between water splitting catalysts and buried silicon junctions. <i>Energy and Environmental Science</i> , 2013, 6, 532-538.	30.8	58
11	Extended X-ray absorption fine structure spectroscopy of selenium-hyperdoped silicon. <i>Journal of Applied Physics</i> , 2013, 114, 133507.	2.5	25
12	Insulator-to-Metal Transition in Selenium-Hyperdoped Silicon: Observation and Origin. <i>Physical Review Letters</i> , 2012, 108, 026401.	7.8	141
13	Growth and p-type doping of cuprous oxide thin-films for photovoltaic applications. , 2012, , .		2
14	Studying femtosecond-laser hyperdoping by controlling surface morphology. <i>Journal of Applied Physics</i> , 2012, 111, 093511.	2.5	35
15	Light-induced water oxidation at silicon electrodes functionalized with a cobalt oxygen-evolving catalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10056-10061.	7.1	195
16	Pulsed-laser hyperdoping and surface texturing for photovoltaics. <i>MRS Bulletin</i> , 2011, 36, 439-445.	3.5	150
17	Pressure-induced phase transformations during femtosecond-laser doping of silicon. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	79
18	Insulator-to-Metal Transition in Sulfur-Doped Silicon. <i>Physical Review Letters</i> , 2011, 106, 178701.	7.8	167

#	ARTICLE	IF	CITATIONS
19	Hall mobility of cuprous oxide thin films deposited by reactive direct-current magnetron sputtering. Applied Physics Letters, 2011, 98, .	3.3	120
20	The role of diffusion in broadband infrared absorption in chalcogen-doped silicon. Applied Physics A: Materials Science and Processing, 2009, 96, 327-334.	2.3	85