Sachit Grover

List of Publications by Year
in descending order

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		759233	996975
26	1,025	12	15
papers	citations	h-index	g-index

26	26	26	964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering the currentâ€“voltage characteristics of metalâ€“insulatorâ€“metal diodes using double-insulator tunnel barriers. Solid-State Electronics, 2012, 67, 94-99.	1.4	182
2	Applicability of Metal/Insulator/Metal (MIM) Diodes to Solar Rectennas. IEEE Journal of Photovoltaics, 2011, 1, 78-83.	2.5	159
3	A recombination analysis of Cu(In,Ga)Se2 solar cells with low and high Ga compositions. Solar Energy Materials and Solar Cells, 2014, 124, 143-149.	6.2	130
4	Graphene geometric diodes for terahertz rectennas. Journal Physics D: Applied Physics, 2013, 46, 185101.	2.8	105
5	Traveling-Wave Metal/Insulator/Metal Diodes for Improved Infrared Bandwidth and Efficiency of Antenna-Coupled Rectifiers. IEEE Nanotechnology Magazine, 2010, 9, 716-722.	2.0	89
6	Reformulation of solar cell physics to facilitate experimental separation of recombination pathways. Applied Physics Letters, 2013, 103, .	3.3	78
7	Ultrahigh speed graphene diode with reversible polarity. Solid State Communications, 2012, 152, 1842-1845.	1.9	42
8	Analysis of Back-Contact Interface Recombination in Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 871-878.	2.5	41
9	Understanding what limits the voltage of polycrystalline CdSeTe solar cells. Nature Energy, 2022, 7, 400-408.	39.5	36
10	Quantum theory of operation for rectenna solar cells. Journal Physics D: Applied Physics, 2013, 46, 135106.	2.8	34
11	Impact of dopant-induced optoelectronic tails on open-circuit voltage in arsenic-doped Cd(Se)Te solar cells. Journal of Applied Physics, 2020, 128, .	2.5	25
12	Pyramidal light trapping and hydrogen passivation for high-efficiency heteroepitaxial (100) crystal silicon solar cells. Energy and Environmental Science, 2012, 5, 8193.	30.8	21
13	Metal Single-Insulator and Multi-Insulator Diodes for Rectenna Solar Cells. , 2013, , 89-109.		15
14	Optimization of the Antireflection Coating of Thin Epitaxial Crystalline Silicon Solar Cells. Energy Procedia, 2015, 77, 248-252.	1.8	11
15	Infrared optical response of geometric diode rectenna solar cells. , 2012, , .		10
16	Geometric Diodes for Optical Rectennas. , 2013, , 209-227.		10
17	Comparison of thin epitaxial film silicon photovoltaics fabricated on monocrystalline and polycrystalline seed layers on glass. Progress in Photovoltaics: Research and Applications, 2015, 23, 909-917.	8.1	9
18	Device Physics of Heteroepitaxial Film c-Si Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 230-235.	2.5	8

#	Article	IF	Citations
19	Characterization of epitaxial film silicon solar cells grown on seeded display glass. , 2012, , .		5
20	Optical Frequency Rectification. , 2013, , 25-46.		5
21	600 mV epitaxial crystal silicon solar cells grown on seeded glass. , 2013, , .		4
22	Efficiency Limits for Solar Spectrum Rectification. , 2013, , 47-67.		4
23	Device physics of heteroepitaxial film c-Si heterojunction solar cells. , 2012, , .		1
24	Improved 750 °C epitaxial crystal silicon solar cells through impurity reduction. , 2013, , .		1
25	New analysis of suns-V<inf>oc</inf> and V<inf>oc</inf>(T): A simple method to quantify recombination channels in solar cells. , 2013, , .		0
26	Device physics of heteroepitaxial film c-Si heterojunction solar cells. , 2013, , .		0