

Sachit Grover

List of Publications by Year in descending order

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26
papers

1,025
citations

759233

12
h-index

996975

15
g-index

26
all docs

26
docs citations

26
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding what limits the voltage of polycrystalline CdSeTe solar cells. Nature Energy, 2022, 7, 400-408.	39.5	36
2	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
3	Analysis of Back-Contact Interface Recombination in Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 871-878.	2.5	41
4	Optimization of the Antireflection Coating of Thin Epitaxial Crystalline Silicon Solar Cells. Energy Procedia, 2015, 77, 248-252.	1.8	11
5	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
6	A recombination analysis of Cu(In,Ga)Se ₂ solar cells with low and high Ga compositions. Solar Energy Materials and Solar Cells, 2014, 124, 143-149.	6.2	130
7	Graphene geometric diodes for terahertz rectennas. Journal Physics D: Applied Physics, 2013, 46, 185101.	2.8	105
8	Reformulation of solar cell physics to facilitate experimental separation of recombination pathways. Applied Physics Letters, 2013, 103, .	3.3	78
9	Device Physics of Heteroepitaxial Film c-Si Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 230-235.	2.5	8
10	600 mV epitaxial crystal silicon solar cells grown on seeded glass. , 2013, , .		4
11	Improved 750 °C epitaxial crystal silicon solar cells through impurity reduction. , 2013, , .		1
12	Quantum theory of operation for rectenna solar cells. Journal Physics D: Applied Physics, 2013, 46, 135106.	2.8	34
13	New analysis of suns- V_{oc} and $V_{oc}(T)$: A simple method to quantify recombination channels in solar cells. , 2013, , .		0
14	Device physics of heteroepitaxial film c-Si heterojunction solar cells. , 2013, , .		0
15	Geometric Diodes for Optical Rectennas. , 2013, , 209-227.		10
16	Optical Frequency Rectification. , 2013, , 25-46.		5
17	Efficiency Limits for Solar Spectrum Rectification. , 2013, , 47-67.		4
18	Metal Single-Insulator and Multi-Insulator Diodes for Rectenna Solar Cells. , 2013, , 89-109.		15

#	ARTICLE	IF	CITATIONS
19	Device physics of heteroepitaxial film c-Si heterojunction solar cells. , 2012, , .		1
20	Infrared optical response of geometric diode rectenna solar cells. , 2012, , .		10
21	Characterization of epitaxial film silicon solar cells grown on seeded display glass. , 2012, , .		5
22	Ultrahigh speed graphene diode with reversible polarity. Solid State Communications, 2012, 152, 1842-1845.	1.9	42
23	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
24	Engineering the current-voltage characteristics of metal-insulator-metal diodes using double-insulator tunnel barriers. Solid-State Electronics, 2012, 67, 94-99.	1.4	182
25	Applicability of Metal/Insulator/Metal (MIM) Diodes to Solar Rectennas. IEEE Journal of Photovoltaics, 2011, 1, 78-83.	2.5	159
26	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