

Ian P Mathews

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,056
citations

623734

14
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

1203
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology and Market Perspective for Indoor Photovoltaic Cells. <i>Joule</i> , 2019, 3, 1415-1426.	24.0	316
2	Performance of III-V Solar Cells as Indoor Light Energy Harvesters. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 230-235.	2.5	134
3	Technoeconomic model of second-life batteries for utility-scale solar considering calendar and cycle aging. <i>Applied Energy</i> , 2020, 269, 115127.	10.1	84
4	Self-Powered Sensors Enabled by Wide-Bandgap Perovskite Indoor Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1904072.	14.9	83
5	End-of-life or second-life options for retired electric vehicle batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100537.	5.6	77
6	Economically Sustainable Growth of Perovskite Photovoltaics Manufacturing. <i>Joule</i> , 2020, 4, 822-839.	24.0	59
7	A Vision for Thermally Integrated Photonics Systems. <i>Bell Labs Technical Journal</i> , 2014, 19, 31-45.	0.7	46
8	Perovskite PV-Powered RFID: Enabling Low-Cost Self-Powered IoT Sensors. <i>IEEE Sensors Journal</i> , 2020, 20, 471-478.	4.7	46
9	Long Range Battery-Less PV-Powered RFID Tag Sensors. <i>IEEE Internet of Things Journal</i> , 2019, 6, 6989-6996.	8.7	41
10	Theoretical performance of multi-junction solar cells combining III-V and Si materials. <i>Optics Express</i> , 2012, 20, A754.	3.4	33
11	Adhesive bonding for mechanically stacked solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1080-1090.	8.1	28
12	GaAs solar cells for Indoor Light Harvesting. , 2014, , .		26
13	InAlAs solar cell on a GaAs substrate employing a graded In _x Ga _{1-x} As InP metamorphic buffer layer. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	23
14	Reducing thermal crosstalk in ten-channel tunable slotted-laser arrays. <i>Optics Express</i> , 2015, 23, 23380.	3.4	15
15	Integrated Thermoelectric Cooling for Silicon Photonics. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, N3103-N3112.	1.8	14
16	Predicted annual energy yield of III-V/c-Si tandem solar cells: modelling the effect of changing spectrum on current-matching. <i>Optics Express</i> , 2020, 28, 7829.	3.4	7
17	Microtransfer Printing High-Efficiency GaAs Photovoltaic Cells onto Silicon for Wireless Power Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 2000048.	5.8	6
18	Patterning Submicrometer Thick Inorganic Nanoparticle Films by Solution Process and Application for Light Trapping in Solar Cells. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 537-540.	2.0	5

#	ARTICLE	IF	CITATIONS
19	Analysis of CdTe photovoltaic cells for ambient light energy harvesting. Journal Physics D: Applied Physics, 2020, 53, 405501.	2.8	5
20	Towards AlN optical cladding layers for thermal management in hybrid lasers. , 2015, , .		4
21	Mechanically stacked solar cells for concentrator photovoltaics. Renewable Energy and Power Quality Journal, 0, , 1294-1299.	0.2	3
22	Economically sustainable growth of small-scale perovskite manufacturing in alternative PV markets. , 2019, , .		1