

# Ian P Mathews

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5281492/publications.pdf>

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	End-of-life or second-life options for retired electric vehicle batteries. Cell Reports Physical Science, 2021, 2, 100537.	5.6	77
2	Perovskite PV-Powered RFID: Enabling Low-Cost Self-Powered IoT Sensors. IEEE Sensors Journal, 2020, 20, 471-478.	4.7	46
3	Microtransfer Printing High-Efficiency GaAs Photovoltaic Cells onto Silicon for Wireless Power Applications. Advanced Materials Technologies, 2020, 5, 2000048.	5.8	6
4	Economically Sustainable Growth of Perovskite Photovoltaics Manufacturing. Joule, 2020, 4, 822-839.	24.0	59
5	Technoeconomic model of second-life batteries for utility-scale solar considering calendar and cycle aging. Applied Energy, 2020, 269, 115127.	10.1	84
6	Analysis of CdTe photovoltaic cells for ambient light energy harvesting. Journal Physics D: Applied Physics, 2020, 53, 405501.	2.8	5
7	Predicted annual energy yield of III-V/c-Si tandem solar cells: modelling the effect of changing spectrum on current-matching. Optics Express, 2020, 28, 7829.	3.4	7
8	Self-Powered Sensors Enabled by Wide-Bandgap Perovskite Indoor Photovoltaic Cells. Advanced Functional Materials, 2019, 29, 1904072.	14.9	83
9	Technology and Market Perspective for Indoor Photovoltaic Cells. Joule, 2019, 3, 1415-1426.	24.0	316
10	Long Range Battery-Less PV-Powered RFID Tag Sensors. IEEE Internet of Things Journal, 2019, 6, 6989-6996.	8.7	41
11	Economically sustainable growth of small-scale perovskite manufacturing in alternative PV markets. , 2019, , .		1
12	Integrated Thermoelectric Cooling for Silicon Photonics. ECS Journal of Solid State Science and Technology, 2017, 6, N3103-N3112.	1.8	14
13	Performance of III-V Solar Cells as Indoor Light Energy Harvesters. IEEE Journal of Photovoltaics, 2016, 6, 230-235.	2.5	134
14	Adhesive bonding for mechanically stacked solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1080-1090.	8.1	28
15	Reducing thermal crosstalk in ten-channel tunable slotted-laser arrays. Optics Express, 2015, 23, 23380.	3.4	15
16	Towards AlN optical cladding layers for thermal management in hybrid lasers. , 2015, , .		4
17	A Vision for Thermally Integrated Photonics Systems. Bell Labs Technical Journal, 2014, 19, 31-45.	0.7	46
18	Patterning Submicrometer Thick Inorganic Nanoparticle Films by Solution Process and Application for Light Trapping in Solar Cells. IEEE Nanotechnology Magazine, 2014, 13, 537-540.	2.0	5

#	ARTICLE	IF	CITATIONS
19	GaAs solar cells for Indoor Light Harvesting. , 2014, , .		26
20	InAlAs solar cell on a GaAs substrate employing a graded In <sub>x</sub> Ga <sub>1-x</sub> As/InP metamorphic buffer layer. Applied Physics Letters, 2013, 102, .	3.3	23
21	Theoretical performance of multi-junction solar cells combining III-V and Si materials. Optics Express, 2012, 20, A754.	3.4	33
22	Mechanically stacked solar cells for concentrator photovoltaics. Renewable Energy and Power Quality Journal, 0, , 1294-1299.	0.2	3