

# Laura Ding

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37  
papers

1,693  
citations

16  
h-index

41  
g-index

46  
ext. papers

1,966  
ext. citations

5.9  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
37	Instability of p-i-n perovskite solar cells under reverse bias. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 242-250	13	38
36	Silicon Nitride Barrier Layers Mitigate Minority-Carrier Lifetime Degradation in Silicon Wafers During Simulated MBE Growth of III-V Layers. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 431-436	3.7	5
35	Low-Temperature Screen-Printed Metallization for the Scale-Up of Two-Terminal Perovskite/Silicon Tandems. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3815-3821	6.1	50
34	Quantitative Mapping of Deflection and Stress on Encapsulated Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 189-195	3.7	6
33	Fully textured monolithic perovskite/silicon tandem solar cells with 25.2% power conversion efficiency. <i>Nature Materials</i> , <b>2018</b> , 17, 820-826	27	745
32	Carrier scattering mechanisms limiting mobility in hydrogen-doped indium oxide. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 245102	2.5	8
31	. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 37-43	3.7	12
30	Gallium nitride grown by molecular beam epitaxy at low temperatures. <i>Thin Solid Films</i> , <b>2017</b> , 642, 25-30	2.2	11
29	Unraveling of bulk and surface behavior in high-quality c-Si material via TIDLs <b>2016</b> ,		1
28	Characterization of encapsulated solar cells by x-ray topography <b>2016</b> ,		2
27	Hetero-emitter GaP/Si solar cells with high Si bulk lifetime <b>2016</b> ,		11
26	<b>2016</b> ,		8
25	Operando XPS characterization of selective contacts: The case of molybdenum oxide for crystalline silicon heterojunction solar cells <b>2016</b> ,		1
24	Silicon Minority-carrier Lifetime Degradation During Molecular Beam Heteroepitaxial III-V Material Growth. <i>Energy Procedia</i> , <b>2016</b> , 92, 617-623	2.3	21
23	Environmental Changes in MoTe <sub>2</sub> Excitonic Dynamics by Defects-Activated Molecular Interaction. <i>ACS Nano</i> , <b>2015</b> , 9, 5326-32	16.7	144
22	Evaluation of metal oxides prepared by reactive sputtering as carrier-selective contacts for crystalline silicon solar cells <b>2015</b> ,		6
21	Innovative Methods for Low-Temperature Contact Formation For Photovoltaics Applications <b>2015</b> ,		1

20	c-texture versus a-texture low pressure metalorganic chemical vapor deposition ZnO films: Lower resistivity despite smaller grain size. <i>Thin Solid Films</i> , <b>2014</b> , 565, 1-6	2.2	34
19	Post-deposition treatment of microcrystalline silicon solar cells for improved performance on rough superstrates. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 244504	2.5	
18	Structural and optical investigations of GaN-Si interface for a heterojunction solar cell <b>2014</b> ,		2
17	High-performance tandem silicon solar cells on F:SnO <sub>2</sub> . <i>Surface and Coatings Technology</i> , <b>2013</b> , 230, 228-233	4.4	11
16	On the Interplay Between Microstructure and Interfaces in High-Efficiency Microcrystalline Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2013</b> , 3, 11-16	3.7	27
15	Optimization of the Asymmetric Intermediate Reflector Morphology for High Stabilized Efficiency Thin n-i-p Micromorph Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2013</b> , 3, 41-45	3.7	7
14	New progress in the fabrication of n <sup>+</sup> μ micromorph solar cells for opaque substrates. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 114, 147-155	6.4	28
13	Thin-film silicon solar cells applying optically decoupled back reflectors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2013</b> , 178, 645-650	3.1	9
12	Ethanol-enriched low-pressure chemical vapor deposition ZnO bilayers: Properties and growth potential electrode for thin film solar cells. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 024908	2.5	4
11	Relaxing the Conductivity/Transparency Trade-Off in MOCVD ZnO Thin Films by Hydrogen Plasma. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5177-5182	15.6	52
10	Nanometer- and Micrometer-Scale Texturing for High-Efficiency Micromorph Thin-Film Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2012</b> , 2, 83-87	3.7	25
9	New Generation Transparent LPCVD ZnO Electrodes for Enhanced Photocurrent in Micromorph Solar Cells and Modules. <i>IEEE Journal of Photovoltaics</i> , <b>2012</b> , 2, 88-93	3.7	10
8	Optimization of ZnO Front Electrodes for High-Efficiency Micromorph Thin-Film Si Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2012</b> , 2, 229-235	3.7	36
7	Latest Developments of High-Efficiency Micromorph Tandem Silicon Solar Cells Implementing Innovative Substrate Materials and Improved Cell Design. <i>IEEE Journal of Photovoltaics</i> , <b>2012</b> , 2, 236-240	3.7	15
6	Geometric light trapping for high efficiency thin film silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 98, 185-190	6.4	83
5	Light harvesting schemes for high efficiency thin film silicon solar cells <b>2012</b> ,		2
4	The development of high performance SnO <sub>2</sub> :F as TCOs for thin film silicon solar cells. <i>Surface and Coatings Technology</i> , <b>2012</b> , 213, 167-174	4.4	31
3	Nanoimprint lithography for high-efficiency thin-film silicon solar cells. <i>Nano Letters</i> , <b>2011</b> , 11, 661-5	11.5	156

- 2 Micromorph thin-film silicon solar cells with transparent high-mobility hydrogenated indium oxide front electrodes. *Journal of Applied Physics*, **2011**, 109, 114501 2.5 39
- 1 On the photocatalytic degradation of phenol and dichloroacetate by BiVO<sub>4</sub>: The need of a sacrificial electron acceptor. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 216, 221-227 4.7 51