

# Monica Morales-Masis

## List of Publications by Citations

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54  
papers

1,622  
citations

21  
h-index

39  
g-index

61  
ext. papers

1,929  
ext. citations

6.2  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
54	Transparent Electrodes for Efficient Optoelectronics. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600529	6.4	224
53	Sputtered rear electrode with broadband transparency for perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 141, 407-413	6.4	182
52	Low-Temperature High-Mobility Amorphous IZO for Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2015</b> , 5, 1340-1347	3.7	85
51	Zr-Doped Indium Oxide (IZRO) Transparent Electrodes for Perovskite-Based Tandem Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901741	15.6	83
50	An Indium-Free Anode for Large-Area Flexible OLEDs: Defect-Free Transparent Conductive Zinc Tin Oxide. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 384-392	15.6	76
49	Zinc tin oxide as high-temperature stable recombination layer for mesoscopic perovskite/silicon monolithic tandem solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 233902	3.4	74
48	A passivating contact for silicon solar cells formed during a single firing thermal annealing. <i>Nature Energy</i> , <b>2018</b> , 3, 800-808	62.3	72
47	Conductance switching in Ag(2)S devices fabricated by in situ sulfurization. <i>Nanotechnology</i> , <b>2009</b> , 20, 095710	3.4	69
46	Interplay of annealing temperature and doping in hole selective rear contacts based on silicon-rich silicon-carbide thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 173, 18-24	6.4	62
45	Parasitic Absorption Reduction in Metal Oxide-Based Transparent Electrodes: Application in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17260-7	9.5	60
44	Observing Quantized Conductance steps in silver sulfide: Two parallel resistive switching mechanisms. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 014302	2.5	51
43	In Situ Hall Effect Monitoring of Vacuum Annealing of In <sub>2</sub> O <sub>3</sub> Thin Films. <i>Materials</i> , <b>2015</b> , 8, 561-574	3.5	37
42	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
41	Toward Annealing-Stable Molybdenum-Oxide-Based Hole-Selective Contacts For Silicon Photovoltaics. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700227	7.1	31
40	Bulk and surface nucleation processes in Ag <sub>2</sub> S conductance switches. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	31
39	Highly Conductive and Broadband Transparent Zr-Doped In <sub>2</sub> O <sub>3</sub> as Front Electrode for Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 1202-1207	3.7	30
38	Environmental stability of high-mobility indium-oxide based transparent electrodes. <i>APL Materials</i> , <b>2015</b> , 3, 116105	5.7	30

37	Towards a quantitative description of solid electrolyte conductance switches. <i>Nanoscale</i> , <b>2010</b> , 2, 2275-807	28
36	Crystalline Silicon Solar Cells With Coannealed Electron- and Hole-Selective SiCx Passivating Contacts. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 1478-1485	3.7 27
35	Hydrogen plasma treatment for improved conductivity in amorphous aluminum doped zinc tin oxide thin films. <i>APL Materials</i> , <b>2014</b> , 2, 096113	5.7 25
34	Enhancing the optoelectronic properties of amorphous zinc tin oxide by subgap defect passivation: A theoretical and experimental demonstration. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3 23
33	Single-Source, Solvent-Free, Room Temperature Deposition of Black ECsSnI3 Films. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000162	4.6 20
32	Metallization of Si heterojunction solar cells by nanosecond laser ablation and Ni-Cu plating. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 243-250	6.4 19
31	Pressing challenges of halide perovskite thin film growth. <i>APL Materials</i> , <b>2020</b> , 8, 110903	5.7 19
30	Increasing Polycrystalline Zinc Oxide Grain Size by Control of Film Preferential Orientation. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5886-5891	3.5 18
29	Copper and Transparent-Conductor Reflectarray Elements on Thin-Film Solar Cell Panels. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 3813-3818	4.9 18
28	Tuning the Optoelectronic Properties of ZnO:Al by Addition of Silica for Light Trapping in High-Efficiency Crystalline Si Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500462	4.6 13
27	Tuning the porosity of zinc oxide electrodes: from dense to nanopillar films. <i>Materials Research Express</i> , <b>2015</b> , 2, 075006	1.7 12
26	Zr-doped indium oxide electrodes: Annealing and thickness effects on microstructure and carrier transport. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2 12
25	Exploring co-sputtering of ZnO:Al and SiO2 for efficient electron-selective contacts on silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 194, 67-73	6.4 12
24	Scalable Pulsed Laser Deposition of Transparent Rear Electrode for Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000856	6.8 12
23	Tailoring the surface morphology of zinc oxide films for high-performance micromorph solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 128, 378-385	6.4 11
22	Mechanical integrity of hybrid indium-free electrodes for flexible devices. <i>Organic Electronics</i> , <b>2016</b> , 35, 136-141	3.5 10
21	New Route for "Cold-Passivation" of Defects in Tin-Based Oxides. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17612-17620	3.8 10
20	Bridging the p-type transparent conductive materials gap: synthesis approaches for disperse valence band materials. <i>Journal of Photonics for Energy</i> , <b>2020</b> , 10, 1	1.2 10

19	Amorphous gallium oxide grown by low-temperature PECVD. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 021518	2.9	8
18	Correlation between Vickers microhardness, porous layer thickness and porosity in p-type nanostructured silicon. <i>Applied Surface Science</i> , <b>2007</b> , 253, 7188-7191	6.7	8
17	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. <i>Matter</i> , <b>2021</b> , 4, 3549-3584	12.7	8
16	Carrier scattering mechanisms limiting mobility in hydrogen-doped indium oxide. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 245102	2.5	8
15	Pulsed Laser Deposition of CsAgBiBr: from Mechanochemically Synthesized Powders to Dry, Single-Step Deposition. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7417-7422	9.6	8
14	Direct Imaging of Dopant Distribution in Polycrystalline ZnO Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7241-7248	9.5	7
13	Quantum Point Contact Conduction <b>2016</b> , 197-224		7
12	Microchannel contacting of crystalline silicon solar cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 9085	4.9	6
11	APCVD of dual layer transparent conductive oxides for photovoltaic applications. <i>Thin Solid Films</i> , <b>2015</b> , 590, 260-265	2.2	5
10	Origins of infrared transparency in highly conductive perovskite stannate BaSnO <sub>3</sub> . <i>APL Materials</i> , <b>2020</b> , 8, 061108	5.7	4
9	Determination of Vickers microhardness on porous silicon surfaces. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1961-1962	2.2	3
8	Color Tuning of Electrochromic TiO Nanofibrous Layers Loaded with Metal and Metal Oxide Nanoparticles for Smart Colored Windows. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8600-8610	5.6	3
7	Wafer-scale pulsed laser deposition of ITO for solar cells: reduced damage vs. interfacial resistance. <i>Materials Advances</i> ,	3.3	3
6	ITO Top-Electrodes via Industrial-Scale PLD for Efficient Buffer-Layer-Free Semitransparent Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2101747	6.8	3
5	Optical Evaluation of the Rear Contacts of Crystalline Silicon Solar Cells by Coupled Electromagnetic and Statistical Ray-Optics Modeling. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 718-726	3.7	2
4	High performance amorphous Zn-Sn-O: impact of composition, microstructure, and thermal treatments in the optoelectronic properties <b>2017</b> ,		1
3	High Temperature Stability of Amorphous Zn-Sn-O Transparent Conductive Oxides Investigated by In Situ TEM and X-ray Diffraction. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1582-1583	0.5	
2	The microstructure of ZnSnO and its correlation to electrical and optical properties <b>2016</b> , 368-369		

- 1 Corrections to Highly Conductive and Broadband Transparent Zr-Doped In<sub>2</sub>O<sub>3</sub> as Front Electrode for Solar Cells *IEEE Journal of Photovoltaics*, **2019**, 9, 1155-1155 3·7