

Monica Morales-Masis

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7367704/monica-morales-masis-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. <i>Matter</i> , 2021 , 4, 3549-3584	12.7	8
53	Scalable Pulsed Laser Deposition of Transparent Rear Electrode for Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000856	6.8	12
52	Color Tuning of Electrochromic TiO Nanofibrous Layers Loaded with Metal and Metal Oxide Nanoparticles for Smart Colored Windows. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8600-8610	5.6	3
51	Pulsed Laser Deposition of CsAgBiBr: from Mechanochemically Synthesized Powders to Dry, Single-Step Deposition. <i>Chemistry of Materials</i> , 2021 , 33, 7417-7422	9.6	8
50	Single-Source, Solvent-Free, Room Temperature Deposition of Black ECsSnI_3 Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000162	4.6	20
49	Origins of infrared transparency in highly conductive perovskite stannate BaSnO_3 . <i>APL Materials</i> , 2020 , 8, 061108	5.7	4
48	Bridging the p-type transparent conductive materials gap: synthesis approaches for disperse valence band materials. <i>Journal of Photonics for Energy</i> , 2020 , 10, 1	1.2	10
47	Pressing challenges of halide perovskite thin film growth. <i>APL Materials</i> , 2020 , 8, 110903	5.7	19
46	Zr-Doped Indium Oxide (IZRO) Transparent Electrodes for Perovskite-Based Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1901741	15.6	83
45	Zr-doped indium oxide electrodes: Annealing and thickness effects on microstructure and carrier transport. <i>Physical Review Materials</i> , 2019 , 3,	3.2	12
44	Exploring co-sputtering of ZnO:Al and SiO ₂ for efficient electron-selective contacts on silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 194, 67-73	6.4	12
43	Corrections to Highly Conductive and Broadband Transparent Zr-Doped In_2O_3 as Front Electrode for Solar Cells \square <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1155-1155	3.7	
42	Toward Annealing-Stable Molybdenum-Oxide-Based Hole-Selective Contacts For Silicon Photovoltaics. <i>Solar Rrl</i> , 2018 , 2, 1700227	7.1	31
41	Amorphous gallium oxide grown by low-temperature PECVD. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 021518	2.9	8
40	Highly Conductive and Broadband Transparent Zr-Doped In_2O_3 as Front Electrode for Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1202-1207	3.7	30
39	New Route for "Cold-Passivation" of Defects in Tin-Based Oxides. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17612-17620	3.8	10
38	Crystalline Silicon Solar Cells With Coannealed Electron- and Hole-Selective SiC_x Passivating Contacts. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1478-1485	3.7	27

37	A passivating contact for silicon solar cells formed during a single firing thermal annealing. <i>Nature Energy</i> , 2018 , 3, 800-808	62.3	72
36	Carrier scattering mechanisms limiting mobility in hydrogen-doped indium oxide. <i>Journal of Applied Physics</i> , 2018 , 123, 245102	2.5	8
35	Direct Imaging of Dopant Distribution in Polycrystalline ZnO Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7241-7248	9.5	7
34	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> , 2017 , 7, 718-726	3.7	2
33	High performance amorphous Zn-Sn-O: impact of composition, microstructure, and thermal treatments in the optoelectronic properties 2017 ,		1
32	Transparent Electrodes for Efficient Optoelectronics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600529	6.4	224
31	Microchannel contacting of crystalline silicon solar cells. <i>Scientific Reports</i> , 2017 , 7, 9085	4.9	6
30	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> , 2017 , 173, 18-24	6.4	62
29	Enhancing the optoelectronic properties of amorphous zinc tin oxide by subgap defect passivation: A theoretical and experimental demonstration. <i>Physical Review B</i> , 2017 , 95,	3.3	23
28	Metallization of Si heterojunction solar cells by nanosecond laser ablation and Ni-Cu plating. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 243-250	6.4	19
27	Quantum Point Contact Conduction 2016 , 197-224		7
26	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> , 2016 , 22, 1582-1583	0.5	
25	Parasitic Absorption Reduction in Metal Oxide-Based Transparent Electrodes: Application in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17260-7	9.5	60
24	Mechanical integrity of hybrid indium-free electrodes for flexible devices. <i>Organic Electronics</i> , 2016 , 35, 136-141	3.5	10
23	An Indium-Free Anode for Large-Area Flexible OLEDs: Defect-Free Transparent Conductive Zinc Tin Oxide. <i>Advanced Functional Materials</i> , 2016 , 26, 384-392	15.6	76
22	The microstructure of ZnSnO and its correlation to electrical and optical properties 2016 , 368-369		
21	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> , 2016 , 3, 1500462	4.6	13
20	Zinc tin oxide as high-temperature stable recombination layer for mesoscopic perovskite/silicon monolithic tandem solar cells. <i>Applied Physics Letters</i> , 2016 , 109, 233902	3.4	74

19	Sputtered rear electrode with broadband transparency for perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 407-413	6.4	182
18	In Situ Hall Effect Monitoring of Vacuum Annealing of In ₂ O ₃ Thin Films. <i>Materials</i> , 2015 , 8, 561-574	3.5	37
17	Increasing Polycrystalline Zinc Oxide Grain Size by Control of Film Preferential Orientation. <i>Crystal Growth and Design</i> , 2015 , 15, 5886-5891	3.5	18
16	APCVD of dual layer transparent conductive oxides for photovoltaic applications. <i>Thin Solid Films</i> , 2015 , 590, 260-265	2.2	5
15	Low-Temperature High-Mobility Amorphous IZO for Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 1340-1347	3.7	85
14	Tuning the porosity of zinc oxide electrodes: from dense to nanopillar films. <i>Materials Research Express</i> , 2015 , 2, 075006	1.7	12
13	Environmental stability of high-mobility indium-oxide based transparent electrodes. <i>APL Materials</i> , 2015 , 3, 116105	5.7	30
12	Copper and Transparent-Conductor Reflectarray Elements on Thin-Film Solar Cell Panels. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3813-3818	4.9	18
11	c-texture versus a-texture low pressure metalorganic chemical vapor deposition ZnO films: Lower resistivity despite smaller grain size. <i>Thin Solid Films</i> , 2014 , 565, 1-6	2.2	34
10	Tailoring the surface morphology of zinc oxide films for high-performance micromorph solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 378-385	6.4	11
9	Hydrogen plasma treatment for improved conductivity in amorphous aluminum doped zinc tin oxide thin films. <i>APL Materials</i> , 2014 , 2, 096113	5.7	25
8	Observing quantized conductance steps in silver sulfide: Two parallel resistive switching mechanisms. <i>Journal of Applied Physics</i> , 2012 , 111, 014302	2.5	51
7	Bulk and surface nucleation processes in Ag ₂ S conductance switches. <i>Physical Review B</i> , 2011 , 84,	3.3	31
6	Towards a quantitative description of solid electrolyte conductance switches. <i>Nanoscale</i> , 2010 , 2, 2275-807	3.7	28
5	Conductance switching in Ag(2)S devices fabricated by in situ sulfurization. <i>Nanotechnology</i> , 2009 , 20, 095710	3.4	69
4	Determination of Vickers microhardness on porous silicon surfaces. <i>Thin Solid Films</i> , 2008 , 516, 1961-1963	3.2	3
3	Correlation between Vickers microhardness, porous layer thickness and porosity in p-type nanostructured silicon. <i>Applied Surface Science</i> , 2007 , 253, 7188-7191	6.7	8
2	Wafer-scale pulsed laser deposition of ITO for solar cells: reduced damage vs. interfacial resistance. <i>Materials Advances</i> ,	3.3	3

1	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
---	---	-----	---