

Mario Ochoa

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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#	ARTICLE	IF	CITATIONS
1	Charge Carrier Lifetime Fluctuations and Performance Evaluation of Cu(In,Ga)Se ₂ Absorbers via Time-Resolved Photoluminescence Microscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	15
2	Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Ga-Gradient in Cu(In,Ga)Se ₂ Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003446.	19.5	14
3	Shaping Perovskites: <i>In Situ</i> Crystallization Mechanism of Rapid Thermally Annealed, Prepatterned Perovskite Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6854-6863.	8.0	17
4	Silver-Promoted High-Performance (Ag,Cu)(In,Ga)Se ₂ Thin-Film Solar Cells Grown at Very Low Temperature. <i>Solar Rrl</i> , 2021, 5, 2100108.	5.8	24
5	Influence of Ga back grading on voltage loss in low-temperature co-evaporated Cu(In,Ga)Se ₂ thin film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 630-637.	8.1	15
6	Physical Passivation of Grain Boundaries and Defects in Perovskite Solar Cells by an Isolating Thin Polymer. <i>ACS Energy Letters</i> , 2021, 6, 2626-2634.	17.4	81
7	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. <i>Cancers</i> , 2021, 13, 3484.	3.7	86
8	Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Ga-Graded Cu(In,Ga)Se ₂ Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2103663.	14.9	7
9	Lateral Charge Carrier Transport in Cu(In,Ga)Se ₂ Studied by Time-Resolved Photoluminescence Mapping. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100313.	2.4	5
10	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. <i>Sensors</i> , 2021, 21, 6469.	3.8	28
11	Photodynamic Therapy: A Compendium of Latest Reviews. <i>Cancers</i> , 2021, 13, 4447.	3.7	134
12	On the use of graphene to improve the performance of concentrator III-V multijunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 60-70.	8.1	6
13	Impact of the III-V/Ge nucleation routine on the performance of high efficiency multijunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110355.	6.2	5
14	Theoretical and experimental assessment of thinned germanium substrates for III-V multijunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 1097-1106.	8.1	20
15	Challenges and opportunities for an efficiency boost of next generation Cu(In,Ga)Se ₂ solar cells: prospects for a paradigm shift. <i>Energy and Environmental Science</i> , 2020, 13, 2047-2055.	30.8	30
16	High-Mobility In ₂ O ₃ :H Electrodes for Four-Terminal Perovskite/CuInSe ₂ Tandem Solar Cells. <i>ACS Nano</i> , 2020, 14, 7502-7512.	14.6	54
17	ALD-ZnMgO and absorber surface modifications to substitute CdS buffer layers in co-evaporated CIGSe solar cells. <i>EPJ Photovoltaics</i> , 2020, 11, 12.	1.6	6
18	Thinned Germanium Substrates for III-V Multijunction Solar Cells. , 2019, , .		1

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19	Degradation of Ge subcells by thermal load during the growth of multijunction solar cells. Progress in Photovoltaics: Research and Applications, 2018, 26, 102-111.	8.1	19
20	Lowering perimeter recombination losses in micro-concentrator solar cells: A simulation study. AIP Conference Proceedings, 2018, , .	0.4	2
21	Degradation of subcells and tunnel junctions during growth of GaInP/Ga(In)As/GaNAsSb/Ge 4-junction solar cells. Progress in Photovoltaics: Research and Applications, 2017, 25, 887-895.	8.1	19
22	On the thermal degradation of tunnel diodes in multijunction solar cells. AIP Conference Proceedings, 2017, , .	0.4	10
23	Modelling of lattice matched dilute nitride 4-junction concentrator solar cells on Ge substrates. AIP Conference Proceedings, 2016, , .	0.4	7
24	Effect of Sb on the quantum efficiency of GaInP solar cells. Progress in Photovoltaics: Research and Applications, 2016, 24, 1116-1122.	8.1	5
25	Energy yield determination of concentrator solar cells using laboratory measurements. AIP Conference Proceedings, 2015, , .	0.4	3