

# Sergio Castro-Hermosa

## List of Publications by Citations

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14  
papers

652  
citations

10  
h-index

15  
g-index

15  
ext. papers

812  
ext. citations

7.2  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
14	Research Update: Large-area deposition, coating, printing, and processing techniques for the upscaling of perovskite solar cell technology. <i>APL Materials</i> , <b>2016</b> , 4, 091508	5.7	150
13	Highly efficient perovskite solar cells for light harvesting under indoor illumination via solution processed SnO <sub>2</sub> /MgO composite electron transport layers. <i>Nano Energy</i> , <b>2018</b> , 49, 290-299	17.1	140
12	Efficient fully laser-patterned flexible perovskite modules and solar cells based on low-temperature solution-processed SnO <sub>2</sub> /mesoporous-TiO <sub>2</sub> electron transport layers. <i>Nano Research</i> , <b>2018</b> , 11, 2669-2681	10	90
11	Printed Solar Cells and Energy Storage Devices on Paper Substrates. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806798	15.6	83
10	Perovskite solar cells on paper and the role of substrates and electrodes on performance. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 1278-1281	4.4	42
9	Perovskite Photovoltaics on Roll-To-Roll Coated Ultra-thin Glass as Flexible High-Efficiency Indoor Power Generators. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100045	6.1	40
8	Stability issues pertaining large area perovskite and dye-sensitized solar cells and modules. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 033001	3	30
7	Quantifying Performance of Permeation Barrier Encapsulation Systems for Flexible and Glass-Based Electronics and Their Application to Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800978	6.4	22
6	Low-Temperature Solution-Processed Thin SnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Double Electron Transport Layers Toward 20% Efficient Perovskite Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 1309-1315	3.7	12
5	Thermosetting Polyurethane Resins as Low-Cost, Easily Scalable, and Effective Oxygen and Moisture Barriers for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54862-54875	9.5	12
4	Efficient fully blade-coated perovskite solar cells in air with nanometer-thick bathocuproine buffer layer. <i>Nano Research</i> , <b>2021</b> , 14, 1034-1042	10	10
3	Characterisation & modelling of perovskite-based synaptic memristor device. <i>Microelectronics Reliability</i> , <b>2020</b> , 111, 113708	1.2	9
2	Investigation of hysteresis in hole transport layer free metal halide perovskites cells under dark conditions. <i>Nanotechnology</i> , <b>2020</b> , 31, 445201	3.4	8
1	Efficient fully roll-to-roll coated encapsulated organic solar module for indoor applications. <i>Solar Energy</i> , <b>2021</b> , 220, 343-353	6.8	4