

Luigi Angelo Castriotta

List of Publications by Year in descending order

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papers

840
citations

643344

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31
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31
docs citations

31
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics. <i>Nature Communications</i> , 2022, 13, 89.	5.8	77
2	Reducing Losses in Perovskite Large Area Solar Technology: Laser Design Optimization for Highly Efficient Modules and Minipanel. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	24
3	Hysteresis-Free Planar Perovskite Solar Module with 19.1% Efficiency by Interfacial Defects Passivation. <i>Solar Rrl</i> , 2022, 6, .	3.1	9
4	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. <i>Nature Energy</i> , 2022, 7, 107-115.	19.8	136
5	Wide bandgap halide perovskite absorbers for semi-transparent photovoltaics: From theoretical design to modules. <i>Nano Energy</i> , 2022, 101, 107560.	8.2	12
6	Beyond 17% stable perovskite solar module via polaron arrangement of tuned polymeric hole transport layer. <i>Nano Energy</i> , 2021, 82, 105685.	8.2	28
7	Air-Processed Infrared-Annealed Printed Methylammonium-Free Perovskite Solar Cells and Modules Incorporating Potassium-Doped Graphene Oxide as an Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11741-11754.	4.0	45
8	Ambient Air Blade-Coating Fabrication of Stable Triple-Cation Perovskite Solar Modules by Green Solvent Quenching. <i>Solar Rrl</i> , 2021, 5, 2100073.	3.1	34
9	Laser-Scribing Optimization for Sprayed SnO ₂ -Based Perovskite Solar Modules on Flexible Plastic Substrates. <i>ACS Applied Energy Materials</i> , 2021, 4, 4507-4518.	2.5	31
10	Light-Stable Methylammonium-Free Inverted Flexible Perovskite Solar Modules on PET Exceeding 10.5% on a 15.7 cm ² Active Area. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29576-29584.	4.0	22
11	Roadmap on organic-inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021, 9, .	2.2	102
12	New Fullerene Derivative as an n-Type Material for Highly Efficient, Flexible Perovskite Solar Cells of a p-i-n Configuration. <i>Advanced Functional Materials</i> , 2020, 30, 2004357.	7.8	38
13	Upscaling Inverted Perovskite Solar Cells: Optimization of Laser Scribing for Highly Efficient Mini-Modules. <i>Micromachines</i> , 2020, 11, 1127.	1.4	42
14	An Interlaboratory Study on the Stability of All-Printable Hole Transport Material-Free Perovskite Solar Cells. <i>Energy Technology</i> , 2020, 8, 2000134.	1.8	18
15	Improved Stability of Inverted and Flexible Perovskite Solar Cells with Carbon Electrode. <i>ACS Applied Energy Materials</i> , 2020, 3, 5126-5134.	2.5	95
16	Metal-semiconductor transition in thin film MAPbI ₃ perovskite. <i>Applied Physics Letters</i> , 2020, 117, 261901.	1.5	5
17	Semi-transparent triple cation Perovskite solar module exceeding 8% efficiency for BIPV applications. , 2020, , .		2
18	Doping Strategy for Efficient and Stable Triple Cation Hybrid Perovskite Solar Cells and Module Based on Poly(3-hexylthiophene) Hole Transport Layer. <i>Small</i> , 2019, 15, e1904399.	5.2	55

#	ARTICLE	IF	CITATIONS
19	Fabrication and Morphological Characterization of High-Efficiency Blade-Coated Perovskite Solar Modules. ACS Applied Materials & Interfaces, 2019, 11, 25195-25204.	4.0	53
20	Large area perovskite solar modules with improved efficiency and stability. , 2019, , .		5
21	Upscaling Inverted Perovskite Solar Cells: n-side passivation for 10 cm ² minimodules with 18.1% efficiency. , 0, , .		0
22	Efficient and stable triple-cation perovskite solar modules by an industry-compatible coating method. , 0, , .		0
23	Scaling Up of Perovskite Solar Modules: from materials to design optimization. , 0, , .		0
24	High Efficiency High Stable Large Area Perovskite Solar Module Including 2D Strategy and Polymeric Hole Transport Material. , 0, , .		1
25	Halide perovskite modules and panels. , 0, , .		0
26	Interfacial Defects Passivation of High Efficiency Perovskite Solar Modules. , 0, , .		1
27	Introducing Organic Interlayer over Self Assembled Monolayers: Boosting Stability of Solution Processable P-I-N based Perovskite Solar Cells with nearly 20% efficiency. , 0, , .		0
28	Flexible Perovskite Solar Cells for indoor photovoltaics with efficiency up to 31% using metal and carbon electrodes. , 0, , .		0
29	Flexible Blade-coated Perovskite Solar Cells with a Non-hazardous Solvent System Fabricated in Ambient Air. , 0, , .		0
30	Perovskite Technology Scaling Up From 32 cm ² to 320 cm ² Module by Fully Ambient Air Meniscus Coating Processes. , 0, , .		0