

Yulia Galagan

List of Publications by Year in Descending Order

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

90
papers

3,993
citations

33
h-index

62
g-index

106
ext. papers

4,529
ext. citations

8.9
avg, IF

5.47
L-index

#	Paper	IF	Citations
90	Universal control strategy for anomalous ionic-electronic phenomenology in perovskite solar cells efficiency measurements. <i>Materials Today Energy</i> , 2022 , 101031	7	
89	Light Intensity Analysis of Photovoltaic Parameters for Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , e2105920	24	16
88	Highly crystalline colloidal nickel oxide hole transport layer for low-temperature processable perovskite solar cell. <i>Chemical Engineering Journal</i> , 2021 , 412, 128746	14.7	4
87	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6562-6573	6.1	2
86	Understanding Differences in the Crystallization Kinetics between One-Step Slot-Die Coating and Spin Coating of MAPbI ₃ Using Multimodal In Situ Optical Spectroscopy. <i>Advanced Optical Materials</i> , 2021 , 9, 2101161	8.1	3
85	Additive effect of bromides and chlorides on the performance of perovskite solar cells fabricated via sequential deposition. <i>Journal of Power Sources</i> , 2021 , 513, 230528	8.9	0
84	Harnessing the potential of lead-free SnTe based perovskite solar cells by unlocking the recombination channels. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 4661-4667	5.8	4
83	Evaluation of Active Layer Thickness Influence in Long-Term Stability and Degradation Mechanisms in CsFAPbI ₃ Perovskite Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11668	2.6	0
82	Stability of perovskite PV modules. <i>JPhys Energy</i> , 2020 , 2, 021004	4.9	13
81	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49	62.3	369
80	Impact of the trap-assisted recombination in the perovskite solar cells 2020 ,		1
79	Perovskite solar cells from lab to fab: the main challenges to access the market 2020 , 1,		2
78	Photoluminescence kinetics for monitoring photoinduced processes in perovskite solar cells. <i>Solar Energy</i> , 2020 , 195, 114-120	6.8	6
77	Effects of Bromine Doping on the Structural Properties and Band Gap of CH ₃ NH ₃ Pb(I Br) Perovskite. <i>ACS Omega</i> , 2020 , 5, 26946-26953	3.9	7
76	Effect of Different Bromine Sources on the Dual Cation Mixed Halide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8285-8294	6.1	5
75	The dominant role of memory-based capacitive hysteretic currents in operation of photovoltaic perovskites. <i>Nano Energy</i> , 2020 , 78, 105398	17.1	5
74	Role of surface recombination in perovskite solar cells at the interface of HTL/CH ₃ NH ₃ PbI ₃ . <i>Nano Energy</i> , 2020 , 67, 104186	17.1	47

73	Bias-Dependent Stability of Perovskite Solar Cells Studied Using Natural and Concentrated Sunlight. <i>Solar Rrl</i> , 2020 , 4, 1900335	7.1	10
72	Visible Light Communication system using an organic emitter and a perovskite photodetector. <i>Organic Electronics</i> , 2019 , 73, 292-298	3.5	21
71	Control of Surface Defects in ZnO Nanorod Arrays with Thermally Deposited Au Nanoparticles for Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3736-3748	6.1	13
70	Influence of Orientational Disorder on the Optical Absorption Properties of the Hybrid Metal-Halide Perovskite CH ₃ NH ₃ PbI ₃ . <i>ChemPhysChem</i> , 2019 , 20, 3228-3237	3.2	2
69	Towards Large Area Stable Perovskite Solar Cells and Modules 2019 ,		2
68	Compact multifunctional source-meter system for characterisation of laboratory-scale solar cell devices. <i>Measurement Science and Technology</i> , 2019 , 30, 035901	2	2
67	Flexible Solar Cells 2018 , 325-362		4
66	Reconsidering figures of merit for performance and stability of perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2018 , 11, 739-743	35.4	61
65	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 799-806	6.1	60
64	Highly Efficient and Stable Flexible Perovskite Solar Cells with Metal Oxides Nanoparticle Charge Extraction Layers. <i>Small</i> , 2018 , 14, e1702775	11	90
63	Roll-to-Roll Fabrication of Solution Processed Electronics. <i>Advanced Engineering Materials</i> , 2018 , 20, 17011590	15.90	72
62	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. <i>Journal of Materials Research</i> , 2018 , 33, 1909-1924	2.5	9
61	Proton irradiation induced changes in glass and polyethylene terephthalate substrates for photovoltaic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 186, 284-290	6.4	8
60	Perovskite Solar Cells: Toward Industrial-Scale Methods. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4326-4335	6.4	48
59	Up-scalable sheet-to-sheet production of high efficiency perovskite module and solar cells on 6-in. substrate using slot die coating. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 181, 53-59	6.4	157
58	Large area >140 cm ² perovskite solar modules made by sheet to sheet and roll to roll fabrication with 14.5% efficiency 2018 ,		9
57	Roll-to-Roll Slot Die Coated Perovskite for Efficient Flexible Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801935	21.8	137
56	Solvent Systems for Industrial-Scale Processing of Spiro-OMeTAD Hole Transport Layer in Perovskite Solar Sells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6056-6063	6.1	13

55	Rapid and low temperature processing of mesoporous TiO ₂ for perovskite solar cells on flexible and rigid substrates. <i>Materials Today Communications</i> , 2017 , 13, 232-240	2.5	25
54	Highly Efficient Perovskite Solar Cells Using Non-Toxic Industry Compatible Solvent System. <i>Solar Rrl</i> , 2017 , 1, 1700091	7.1	44
53	Integrated Front-Rear-Grid Optimization of Free-Form Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 294-302	3.7	3
52	High-temperature superconducting nanocomposites and their stability 2017 ,		2
51	Up-scaling perovskite solar cell manufacturing from sheet-to-sheet to roll-to-roll: challenges and solutions 2017 ,		2
50	Light intensity dependence of External Quantum Efficiency of fresh and degraded organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 273-280	6.4	27
49	Towards the scaling up of perovskite solar cells and modules. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5700-5705	13	83
48	Photonic Flash Sintering of Ink-Jet-Printed Back Electrodes for Organic Photovoltaic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2325-35	9.5	20
47	A benchmark study of commercially available copper nanoparticle inks for application in organic electronic devices. <i>Organic Electronics</i> , 2016 , 34, 130-138	3.5	20
46	All-solution processed organic solar cells with top illumination. <i>Organic Electronics</i> , 2015 , 21, 40-46	3.5	15
45	High efficiency, fully inkjet printed organic solar cells with freedom of design. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7255-7262	13	189
44	Ultimate form freedom in thin film solar cells by postmanufacture laser-based processing. <i>Journal of Photonics for Energy</i> , 2015 , 5, 057210	1.2	4
43	Failure analysis in ITO-free all-solution processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20567-20578	13	12
42	Concentrated sunlight for accelerated stability testing of organic photovoltaic materials: towards decoupling light intensity and temperature. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 99-107	6.4	32
41	Roll-to-Roll Slot-Die Coated Organic Photovoltaic (OPV) Modules with High Geometrical Fill Factors. <i>Energy Technology</i> , 2015 , 3, 834-842	3.5	42
40	Reversible degradation in ITO-containing organic photovoltaics under concentrated sunlight. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3891-7	3.6	22
39	Digital fabrication of organic solar cells by Inkjet printing using non-halogenated solvents. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 364-372	6.4	62
38	Comparative Indoor and Outdoor Degradation of Organic Photovoltaic Cells via Inter-laboratory Collaboration. <i>Polymers</i> , 2015 , 8,	4.5	235

37	Describing the light intensity dependence of polymer:fullerene solar cells using an adapted Shockley diode model. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5732-8	3.6	13
36	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 281-290	6.4	22
35	Solution processing of back electrodes for organic solar cells with inverted architecture. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 163-169	6.4	21
34	Organic photovoltaic cells with all inkjet printed layers and freedom of form 2014 ,		5
33	Scaling Up ITO-Free Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1300498	21.8	45
32	Flexible Substrates and Barriers 2014 , 591-637		
31	All-solution-processed organic solar cells with conventional architecture. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 267-272	6.4	33
30	Low-cost upscaling compatibility of five different ITO-free architectures for polymer solar cells. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 944-954	2.9	26
29	Roll-to-roll embedded conductive structures integrated into organic photovoltaic devices. <i>Nanotechnology</i> , 2013 , 24, 484014	3.4	31
28	Molecular depth profiling of organic photovoltaic heterojunction layers by ToF-SIMS: comparative evaluation of three sputtering beams. <i>Analyst, The</i> , 2013 , 138, 6801-10	5	34
27	Photonic sintering of inkjet printed current collecting grids for organic solar cell applications. <i>Organic Electronics</i> , 2013 , 14, 38-46	3.5	85
26	Inkjet Printing of Back Electrodes for Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1230-1237	21.8	52
25	Investigation of non-halogenated solvent mixtures for high throughput fabrication of polymer:fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 195-201	6.4	65
24	Evaluation of ink-jet printed current collecting grids and busbars for ITO-free organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 104, 32-38	6.4	113
23	Current Collecting Grids for ITO-Free Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 103-110	21.8	106
22	Organic Solar Cells: Current Collecting Grids for ITO-Free Solar Cells (Adv. Energy Mater. 1/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 169-169	21.8	2
21	On the stability of a variety of organic photovoltaic devices by IPCE and in situ IPCE analyses--the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11824-45	3.6	34
20	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. <i>RSC Advances</i> , 2012 , 2, 882-893	3.7	102

19	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniques—the ISOS-3 inter-laboratory collaboration. <i>Energy and Environmental Science</i> , 2012 , 5, 6521	35.4	116
18	Stability and degradation of organic photovoltaics fabricated, aged, and characterized by the ISOS 3 inter-laboratory collaboration 2012 ,		2
17	Large area ITO-free organic solar cells on steel substrate. <i>Organic Electronics</i> , 2012 , 13, 3310-3314	3.5	37
16	Organic Photovoltaics: Technologies and Manufacturing 2012 ,		8
15	TOF-SIMS investigation of degradation pathways occurring in a variety of organic photovoltaic devices—the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11780-99	3.6	31
14	Combined characterization techniques to understand the stability of a variety of organic photovoltaic devices: the ISOS-3 inter-laboratory collaboration 2012 ,		3
13	Analysis of light intensity dependence of organic photovoltaics: Towards efficient large-area solar cells 2012 ,		2
12	Semitransparent organic solar cells with organic wavelength dependent reflectors. <i>Applied Physics Letters</i> , 2011 , 98, 043302	3.4	28
11	The OE-A OPV demonstrator anno domini 2011. <i>Energy and Environmental Science</i> , 2011 , 4, 4116	35.4	177
10	Study of organic photovoltaics by localized concentrated sunlight: Towards optimization of charge collection in large-area solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 173305	3.4	24
9	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1398-1416	6.4	127
8	Technology development for roll-to-roll production of organic photovoltaics. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011 , 50, 454-461	3.7	140
7	ITO-free flexible organic solar cells with printed current collecting grids. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1339-1343	6.4	298
6	Organic Polymer Solar Cell Morphology Characterization with AFM, TEM and Helium Ion Microscopy (HIM). <i>Microscopy and Microanalysis</i> , 2010 , 16, 1380-1381	0.5	
5	Monitoring time and temperature by methylene blue containing polyacrylate film. <i>Sensors and Actuators B: Chemical</i> , 2010 , 144, 49-55	8.5	16
4	Fadable ink for time-temperature control of food freshness: Novel new time-temperature indicator. <i>Food Research International</i> , 2008 , 41, 653-657	7	63
3	Reversible photoreduction of methylene blue in acrylate media containing benzyl dimethyl ketal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 378-383	4.7	84
2	Facile Preparation of Environmental Stable High-Temperature Superconducting Ceramic and Polymer Composites. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2673-2675	3.8	2

1 Analysis of Light-Enhanced Capacitance Dispersion in Perovskite Solar Cells. *Advanced Materials Interfaces*, 2102275 4.6 1