Yulia Galagan

List of Publications by Citations

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	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. *Nature Energy*, **2020**, 5, 35-49	62.3	369
89	ITO-free flexible organic solar cells with printed current collecting grids. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1339-1343	6.4	298
88	Comparative Indoor and Outdoor Degradation of Organic Photovoltaic Cells via Inter-laboratory Collaboration. *Polymers*, **2015**, 8,	4.5	235
87	High efficiency, fully inkjet printed organic solar cells with freedom of design. *Journal of Materials Chemistry A*, **2015**, 3, 7255-7262	13	189
86	The OE-A OPV demonstrator anno domini 2011. *Energy and Environmental Science*, **2011**, 4, 4116	35.4	177
85	Up-scalable sheet-to-sheet production of high efficiency perovskite module and solar cells on 6-in. substrate using slot die coating. *Solar Energy Materials and Solar Cells*, **2018**, 181, 53-59	6.4	157
84	Technology development for roll-to-roll production of organic photovoltaics. *Chemical Engineering and Processing: Process Intensification*, **2011**, 50, 454-461	3.7	140
83	Roll-to-Roll Slot Die Coated Perovskite for Efficient Flexible Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1801935	21.8	137
82	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1398-1416	6.4	127
81	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniques—the ISOS-3 inter-laboratory collaboration. *Energy and Environmental Science*, **2012**, 5, 6521	35.4	116
80	Evaluation of ink-jet printed current collecting grids and busbars for ITO-free organic solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 104, 32-38	6.4	113
79	Current Collecting Grids for ITO-Free Solar Cells. *Advanced Energy Materials*, **2012**, 2, 103-110	21.8	106
78	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. *RSC Advances*, **2012**, 2, 882-893	3.7	102
77	Highly Efficient and Stable Flexible Perovskite Solar Cells with Metal Oxides Nanoparticle Charge Extraction Layers. *Small*, **2018**, 14, e1702775	11	90
76	Photonic sintering of inkjet printed current collecting grids for organic solar cell applications. *Organic Electronics*, **2013**, 14, 38-46	3.5	85
75	Reversible photoreduction of methylene blue in acrylate media containing benzyl dimethyl ketal. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 195, 378-383	4.7	84
74	Towards the scaling up of perovskite solar cells and modules. *Journal of Materials Chemistry A*, **2016**, 4, 5700-5705	13	83

73	Roll-to-Roll Fabrication of Solution Processed Electronics. *Advanced Engineering Materials*, **2018**, 20, 1701190	3.5	72
72	Investigation of non-halogenated solvent mixtures for high throughput fabrication of polymer–fullerene solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 96, 195-201	6.4	65
71	Fadable ink for time–temperature control of food freshness: Novel new time–temperature indicator. *Food Research International*, **2008**, 41, 653-657	7	63
70	Digital fabrication of organic solar cells by Inkjet printing using non-halogenated solvents. *Solar Energy Materials and Solar Cells*, **2015**, 134, 364-372	6.4	62
69	Reconsidering figures of merit for performance and stability of perovskite photovoltaics. *Energy and Environmental Science*, **2018**, 11, 739-743	35.4	61
68	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. *ACS Applied Energy Materials*, **2018**, 1, 799-806	6.1	60
67	Inkjet Printing of Back Electrodes for Inverted Polymer Solar Cells. *Advanced Energy Materials*, **2013**, 3, 1230-1237	21.8	52
66	Perovskite Solar Cells: Toward Industrial-Scale Methods. *Journal of Physical Chemistry Letters*, **2018**, 9, 4326-4335	6.4	48
65	Role of surface recombination in perovskite solar cells at the interface of HTL/CH3NH3PbI3. *Nano Energy*, **2020**, 67, 104186	17.1	47
64	Scaling Up ITO-Free Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1300498	21.8	45
63	Highly Efficient Perovskite Solar Cells Using Non-Toxic Industry Compatible Solvent System. *Solar Rrl*, **2017**, 1, 1700091	7.1	44
62	Roll-to-Roll Slot-Die Coated Organic Photovoltaic (OPV) Modules with High Geometrical Fill Factors. *Energy Technology*, **2015**, 3, 834-842	3.5	42
61	Large area ITO-free organic solar cells on steel substrate. *Organic Electronics*, **2012**, 13, 3310-3314	3.5	37
60	Molecular depth profiling of organic photovoltaic heterojunction layers by ToF-SIMS: comparative evaluation of three sputtering beams. *Analyst, The*, **2013**, 138, 6801-10	5	34
59	On the stability of a variety of organic photovoltaic devices by IPCE and in situ IPCE analyses--the ISOS-3 inter-laboratory collaboration. *Physical Chemistry Chemical Physics*, **2012**, 14, 11824-45	3.6	34
58	All-solution-processed organic solar cells with conventional architecture. *Solar Energy Materials and Solar Cells*, **2013**, 117, 267-272	6.4	33
57	Concentrated sunlight for accelerated stability testing of organic photovoltaic materials: towards decoupling light intensity and temperature. *Solar Energy Materials and Solar Cells*, **2015**, 134, 99-107	6.4	32
56	Roll-to-roll embedded conductive structures integrated into organic photovoltaic devices. *Nanotechnology*, **2013**, 24, 484014	3.4	31

55	TOF-SIMS investigation of degradation pathways occurring in a variety of organic photovoltaic devices--the ISOS-3 inter-laboratory collaboration. *Physical Chemistry Chemical Physics*, **2012**, 14, 11780-99	3.6	31
54	Semitransparent organic solar cells with organic wavelength dependent reflectors. *Applied Physics Letters*, **2011**, 98, 043302	3.4	28
53	Light intensity dependence of External Quantum Efficiency of fresh and degraded organic photovoltaics. *Solar Energy Materials and Solar Cells*, **2016**, 144, 273-280	6.4	27
52	Low-cost upscaling compatibility of five different ITO-free architectures for polymer solar cells. *Journal of Applied Polymer Science*, **2013**, 130, 944-954	2.9	26
51	Rapid and low temperature processing of mesoporous TiO2 for perovskite solar cells on flexible and rigid substrates. *Materials Today Communications*, **2017**, 13, 232-240	2.5	25
50	Study of organic photovoltaics by localized concentrated sunlight: Towards optimization of charge collection in large-area solar cells. *Applied Physics Letters*, **2011**, 99, 173305	3.4	24
49	Worldwide outdoor round robin study of organic photovoltaic devices and modules. *Solar Energy Materials and Solar Cells*, **2014**, 130, 281-290	6.4	22
48	Reversible degradation in ITO-containing organic photovoltaics under concentrated sunlight. *Physical Chemistry Chemical Physics*, **2015**, 17, 3891-7	3.6	22
47	Visible Light Communication system using an organic emitter and a perovskite photodetector. *Organic Electronics*, **2019**, 73, 292-298	3.5	21
46	Solution processing of back electrodes for organic solar cells with inverted architecture. *Solar Energy Materials and Solar Cells*, **2014**, 130, 163-169	6.4	21
45	Photonic Flash Sintering of Ink-Jet-Printed Back Electrodes for Organic Photovoltaic Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 2325-35	9.5	20
44	A benchmark study of commercially available copper nanoparticle inks for application in organic electronic devices. *Organic Electronics*, **2016**, 34, 130-138	3.5	20
43	Monitoring time and temperature by methylene blue containing polyacrylate film. *Sensors and Actuators B: Chemical*, **2010**, 144, 49-55	8.5	16
42	Light Intensity Analysis of Photovoltaic Parameters for Perovskite Solar Cells. *Advanced Materials*, **2021**, e2105920	24	16
41	All-solution processed organic solar cells with top illumination. *Organic Electronics*, **2015**, 21, 40-46	3.5	15
40	Control of Surface Defects in ZnO Nanorod Arrays with Thermally Deposited Au Nanoparticles for Perovskite Photovoltaics. *ACS Applied Energy Materials*, **2019**, 2, 3736-3748	6.1	13
39	Stability of perovskite PV modules. *JPhys Energy*, **2020**, 2, 021004	4.9	13
38	Describing the light intensity dependence of polymer:fullerene solar cells using an adapted Shockley diode model. *Physical Chemistry Chemical Physics*, **2014**, 16, 5732-8	3.6	13

37	Solvent Systems for Industrial-Scale Processing of Spiro-OMeTAD Hole Transport Layer in Perovskite Solar Sells. *ACS Applied Energy Materials*, **2018**, 1, 6056-6063	6.1	13
36	Failure analysis in ITO-free all-solution processed organic solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20567-20578	13	12
35	Bias-Dependent Stability of Perovskite Solar Cells Studied Using Natural and Concentrated Sunlight. *Solar Rrl*, **2020**, 4, 1900335	7.1	10
34	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. *Journal of Materials Research*, **2018**, 33, 1909-1924	2.5	9
33	Large area >140 cm2 perovskite solar modules made by sheet to sheet and roll to roll fabrication with 14.5% efficiency **2018**,		9
32	Proton irradiation induced changes in glass and polyethylene terephthalate substrates for photovoltaic solar cells. *Solar Energy Materials and Solar Cells*, **2018**, 186, 284-290	6.4	8
31	Organic Photovoltaics: Technologies and Manufacturing **2012**,		8
30	Effects of Bromine Doping on the Structural Properties and Band Gap of CHNHPb(I Br) Perovskite. *ACS Omega*, **2020**, 5, 26946-26953	3.9	7
29	Photoluminescence kinetics for monitoring photoinduced processes in perovskite solar cells. *Solar Energy*, **2020**, 195, 114-120	6.8	6
28	Organic photovoltaic cells with all inkjet printed layers and freedom of form **2014**,		5
27	Effect of Different Bromine Sources on the Dual Cation Mixed Halide Perovskite Solar Cells. *ACS Applied Energy Materials*, **2020**, 3, 8285-8294	6.1	5
26	The dominant role of memory-based capacitive hysteretic currents in operation of photovoltaic perovskites. *Nano Energy*, **2020**, 78, 105398	17.1	5
25	Ultimate form freedom in thin film solar cells by postmanufacture laser-based processing. *Journal of Photonics for Energy*, **2015**, 5, 057210	1.2	4
24	Flexible Solar Cells **2018**, 325-362		4
23	Highly crystalline colloidal nickel oxide hole transport layer for low-temperature processable perovskite solar cell. *Chemical Engineering Journal*, **2021**, 412, 128746	14.7	4
22	Harnessing the potential of lead-free SnGe based perovskite solar cells by unlocking the recombination channels. *Sustainable Energy and Fuels*, **2021**, 5, 4661-4667	5.8	4
21	Integrated FrontRear-Grid Optimization of Free-Form Solar Cells. *IEEE Journal of Photovoltaics*, **2017**, 7, 294-302	3.7	3
20	Combined characterization techniques to understand the stability of a variety of organic photovoltaic devices: the ISOS-3 inter-laboratory collaboration **2012**,		3

19	Understanding Differences in the Crystallization Kinetics between One-Step Slot-Die Coating and Spin Coating of MAPbI3 Using Multimodal In Situ Optical Spectroscopy. *Advanced Optical Materials*, **2021**, 9, 2101161	8.1	3
18	Influence of Orientational Disorder on the Optical Absorption Properties of the Hybrid Metal-Halide Perovskite CH NH PbI. *ChemPhysChem*, **2019**, 20, 3228-3237	3.2	2
17	Organic Solar Cells: Current Collecting Grids for ITO-Free Solar Cells (Adv. Energy Mater. 1/2012). *Advanced Energy Materials*, **2012**, 2, 169-169	21.8	2
16	High-temperature superconducting nanocomposites and their stability **2017**,		2
15	Stability and degradation of organic photovoltaics fabricated, aged, and characterized by the ISOS 3 inter-laboratory collaboration **2012**,		2
14	Analysis of light intensity dependence of organic photovoltaics: Towards efficient large-area solar cells **2012**,		2
13	Facile Preparation of Environmental Stable High-Temperature Superconducting Ceramic and Polymer Composites. *Journal of the American Ceramic Society*, **2007**, 90, 2673-2675	3.8	2
12	Up-scaling perovskite solar cell manufacturing from sheet-to-sheet to roll-to-roll: challenges and solutions **2017**,		2
11	Perovskite solar cells from lab to fab: the main challenges to access the market **2020**, 1,		2
10	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 6562-6573	6.1	2
9	Towards Large Area Stable Perovskite Solar Cells and Modules **2019**,		2
8	Compact multifunctional source-meter system for characterisation of laboratory-scale solar cell devices. *Measurement Science and Technology*, **2019**, 30, 035901	2	2
7	Analysis of Light-Enhanced Capacitance Dispersion in Perovskite Solar Cells. *Advanced Materials Interfaces*,2102275	4.6	1
6	Impact of the trap-assisted recombination in the perovskite solar cells **2020**,		1
5	Additive effect of bromides and chlorides on the performance of perovskite solar cells fabricated via sequential deposition. *Journal of Power Sources*, **2021**, 513, 230528	8.9	0
4	Evaluation of Active Layer Thickness Influence in Long-Term Stability and Degradation Mechanisms in CsFAPbIBr Perovskite Solar Cells. *Applied Sciences (Switzerland)*, **2021**, 11, 11668	2.6	0
3	Organic Polymer Solar Cell Morphology Characterization with AFM, TEM and Helium Ion Microscopy (HIM). *Microscopy and Microanalysis*, **2010**, 16, 1380-1381	0.5	
2	Flexible Substrates and Barriers **2014**, 591-637		

List of Publications

1 Universal control strategy for anomalous ionic-electronic phenomenology in perovskite solar cells efficiency measurements. *Materials Today Energy*, **2022**, 101031 7