

# Tobias Stubhan

## List of Publications by Year in descending order

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34  
papers

3,167  
citations

186265  
28  
h-index

377865  
34  
g-index

34  
all docs

34  
docs citations

34  
times ranked

5238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating the Full Potential of OPV Materials Utilizing a High-Throughput Robot-Based Platform and Machine Learning. <i>Joule</i> , 2021, 5, 495-506.	24.0	86
2	The evolution of Materials Acceleration Platforms: toward the laboratory of the future with AMANDA. <i>Journal of Materials Science</i> , 2021, 56, 16422-16446.	3.7	31
3	Robot-Based High-Throughput Screening of Antisolvents for Lead Halide Perovskites. <i>Joule</i> , 2020, 4, 1806-1822.	24.0	65
4	Beyond Ternary OPV: High-Throughput Experimentation and Self-Driving Laboratories Optimize Multicomponent Systems. <i>Advanced Materials</i> , 2020, 32, e1907801.	21.0	138
5	Film Fabrication Techniques: Beyond Ternary OPV: High-Throughput Experimentation and Self-Driving Laboratories Optimize Multicomponent Systems (Adv. Mater. 14/2020). <i>Advanced Materials</i> , 2020, 32, 2070110.	21.0	2
6	Exploring the Stability of Novel Wide Bandgap Perovskites by a Robot Based High Throughput Approach. <i>Advanced Energy Materials</i> , 2018, 8, 1701543.	19.5	75
7	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	12.6	554
8	Overcoming Interfacial Losses in Solution-Processed Organic Multi-Junction Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601959.	19.5	39
9	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5112-5120.	21.0	188
10	Characterization of ZnO Interlayers for Organic Solar Cells: Correlation of Electrochemical Properties with Thin-Film Morphology and Device Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19787-19798.	8.0	19
11	Exploring the Limiting Open-Circuit Voltage and the Voltage Loss Mechanism in Planar CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600132.	19.5	71
12	Overcoming Electrode-Induced Losses in Organic Solar Cells by Tailoring a Quasi-Ohmic Contact to Fullerenes via Solution-Processed Alkali Hydroxide Layers. <i>Advanced Energy Materials</i> , 2016, 6, 1502195.	19.5	29
13	Low-Temperature and Hysteresis-Free Electron-Transporting Layers for Efficient, Regular, and Planar Structure Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501056.	19.5	69
14	Printing high performance reflective electrodes for organic solar cells. <i>Organic Electronics</i> , 2015, 17, 334-339.	2.6	23
15	Quantifying the Extent of Contact Doping at the Interface between High Work Function Electrical Contacts and Poly(3-hexylthiophene) (P3HT). <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1303-1309.	4.6	40
16	Patterning of organic photovoltaic modules by ultrafast laser. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 238-246.	8.1	62
17	Solution-Processed Parallel Tandem Polymer Solar Cells Using Silver Nanowires as Intermediate Electrode. <i>ACS Nano</i> , 2014, 8, 12632-12640.	14.6	34
18	Accelerated degradation of Al <sup>3+</sup> doped ZnO thin films using damp heat test. <i>Organic Electronics</i> , 2014, 15, 569-576.	2.6	16

#	ARTICLE	IF	CITATIONS
19	A solution-processed barium hydroxide modified aluminum doped zinc oxide layer for highly efficient inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18917-18923.	10.3	47
20	A universal method to form the equivalent ohmic contact for efficient solution-processed organic tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14896-14902.	10.3	20
21	Fully Solution-Processing Route toward Highly Transparent Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18251-18257.	8.0	68
22	A combination of Al-doped ZnO and a conjugated polyelectrolyte interlayer for small molecule solution-processed solar cells with an inverted structure. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11306.	10.3	48
23	Spray-Coated Silver Nanowires as Top Electrode Layer in Semitransparent P3HT:PCBM-Based Organic Solar Cell Devices. <i>Advanced Functional Materials</i> , 2013, 23, 1711-1717.	14.9	216
24	ITO-Free and Fully Solution-Processed Semitransparent Organic Solar Cells with High Fill Factors. <i>Advanced Energy Materials</i> , 2013, 3, 1062-1067.	19.5	172
25	Overcoming interface losses in organic solar cells by applying low temperature, solution processed aluminum-doped zinc oxide electron extraction layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6004.	10.3	79
26	Design of the Solution-Processed Intermediate Layer by Engineering for Inverted Organic Multi junction Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 301-307.	19.5	57
27	High Fill Factor Polymer Solar Cells Incorporating a Low Temperature Solution Processed WO <sub>3</sub> Hole Extraction Layer. <i>Advanced Energy Materials</i> , 2012, 2, 1433-1438.	19.5	186
28	High fill factor polymer solar cells comprising a transparent, low temperature solution processed doped metal oxide/metal nanowire composite electrode. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 248-251.	6.2	75
29	Inverted structure organic photovoltaic devices employing a low temperature solution processed WO <sub>3</sub> anode buffer layer. <i>Organic Electronics</i> , 2012, 13, 2479-2484.	2.6	57
30	Increasing the Fill Factor of Inverted P3HT:PCBM Solar Cells Through Surface Modification of Al-Doped ZnO via Phosphonic Acid-Anchored C60 SAMs. <i>Advanced Energy Materials</i> , 2012, 2, 532-535.	19.5	116
31	High shunt resistance in polymer solar cells comprising a MoO <sub>3</sub> hole extraction layer processed from nanoparticle suspension. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	149
32	Comparison of various sol-gel derived metal oxide layers for inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2194-2199.	6.2	153
33	Inverted organic solar cells using a solution processed aluminum-doped zinc oxide buffer layer. <i>Organic Electronics</i> , 2011, 12, 1539-1543.	2.6	139
34	Organic solar cells incorporating buffer layers from indium doped zinc oxide nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 579-585.	6.2	44