

# Ming-Chun Tang

## List of Publications by Citations

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29  
papers

1,288  
citations

17  
h-index

32  
g-index

32  
ext. papers

1,515  
ext. citations

13.2  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
29	High performance ambient-air-stable FAPbI <sub>3</sub> perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3358-3366	35.4	154
28	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2684-2694	16.4	135
27	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1078-1085	20.1	132
26	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. <i>Joule</i> , <b>2019</b> , 3, 1746-1761	17.8	118
25	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , <b>2019</b> , 19, 7181-7190	11.5	110
24	Candle Light-Style Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2750-2757	15.6	100
23	Scalable Ambient Fabrication of High-Performance CsPbI <sub>2</sub> Br Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 2485-2502	27.8	94
22	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808357	24	57
21	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1095-1104	13	49
20	Solvent Vapor Annealing-Mediated Crystallization Directs Charge Generation, Recombination and Extraction in BHJ Solar Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 789-798	9.6	37
19	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI <sub>3</sub> : An In Situ Investigation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807544	15.6	36
18	Mesostructured Fullerene Electrodes for Highly Efficient n-i-p Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1049-1056	20.1	35
17	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800305	7.1	30
16	Room-Temperature Partial Conversion of FAPbI <sub>3</sub> Perovskite Phase via PbI <sub>2</sub> Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907442	15.6	27
15	Organic light-emitting diode-based plausibly physiologically-friendly low color-temperature night light. <i>Organic Electronics</i> , <b>2012</b> , 13, 1349-1355	3.5	27
14	Nearly non-roll-off high efficiency fluorescent yellow organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12613		26
13	In situ study of the film formation mechanism of organic/inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7695-7703	12	25

12	Efficient Hybrid Mixed-Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000272	7.1	17
11	Ruddlesden-Popper-Phase Hybrid Halide Perovskite/Small-Molecule Organic Blend Memory Transistors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003137	24	17
10	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34402-34412	9.5	10
9	Wide and Tunable Bandgap MAPbBr <sub>3</sub> Cl <sub>x</sub> Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000718	7.1	10
8	Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000668	7.1	10
7	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , <b>2021</b> , 2021, 9671892	7.8	8
6	Organic light-emitting diodes with roll-up character. <i>Journal of Photonics for Energy</i> , <b>2012</b> , 2, 021208	1.2	6
5	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. <i>Materials Advances</i> , <b>2021</b> , 2, 1253-1262	3.3	6
4	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 51592-51601	9.5	4
3	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36417-36427	9.5	3
2	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2277-2285	4	3
1	Very low color-temperature organic light-emitting diodes for lighting at night <b>2011</b> ,		1