Ming-Chun Tang

List of Publications by Year in Descending Order

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	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. *ACS Applied Materials & Interfaces*, **2021**, 13, 51592-51601	9.5	4
28	Wide and Tunable Bandgap MAPbBr3Clx Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. *Solar Rrl*, **2021**, 5, 2000718	7.1	10
27	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. *ACS Applied Electronic Materials*, **2021**, 3, 2277-2285	4	3
26	Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. *Solar Rrl*, **2021**, 5, 2000668	7.1	10
25	Perovskite Solar Cells toward Eco-Friendly Printing. *Research*, **2021**, 2021, 9671892	7.8	8
24	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. *Materials Advances*, **2021**, 2, 1253-1262	3.3	6
23	Ruddlesden-Popper-Phase Hybrid Halide Perovskite/Small-Molecule Organic Blend Memory Transistors. *Advanced Materials*, **2021**, 33, e2003137	24	17
22	Efficient Hybrid Mixed-Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. *Solar Rrl*, **2020**, 4, 2000272	7.1	17
21	In situ study of the film formation mechanism of organicInorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. *Journal of Materials Chemistry A*, **2020**, 8, 7695-7703	13	25
20	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. *ACS Applied Materials & Interfaces*, **2020**, 12, 34402-34412	9.5	10
19	Room-Temperature Partial Conversion of FAPbI3 Perovskite Phase via PbI2 Solvation Enables High-Performance Solar Cells. *Advanced Functional Materials*, **2020**, 30, 1907442	15.6	27
18	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 1095-1104	13	49
17	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. *ACS Applied Materials & Interfaces*, **2020**, 12, 36417-36427	9.5	3
16	Scalable Ambient Fabrication of High-Performance CsPbI2Br Solar Cells. *Joule*, **2019**, 3, 2485-2502	27.8	94
15	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. *Nano Letters*, **2019**, 19, 7181-7190	11.5	110
14	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI3: An In Situ Investigation. *Advanced Functional Materials*, **2019**, 29, 1807544	15.6	36
13	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. *Advanced Materials*, **2019**, 31, e1808357	24	57

12	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. *Solar Rrl*, **2019**, 3, 1800305	7.1	30
11	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. *Joule*, **2019**, 3, 1746-1764	27.8	118
10	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. *Journal of the American Chemical Society*, **2019**, 141, 2684-2694	16.4	135
9	Solvent Vapor Annealing-Mediated Crystallization Directs Charge Generation, Recombination and Extraction in BHJ Solar Cells. *Chemistry of Materials*, **2018**, 30, 789-798	9.6	37
8	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. *ACS Energy Letters*, **2018**, 3, 1078-1085	20.1	132
7	High performance ambient-air-stable FAPbI3 perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. *Energy and Environmental Science*, **2018**, 11, 3358-3366	35.4	154
6	Mesostructured Fullerene Electrodes for Highly Efficient n[illegible]p Perovskite Solar Cells. *ACS Energy Letters*, **2016**, 1, 1049-1056	20.1	35
5	Candle Light-Style Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2013**, 23, 2750-2757	15.6	100
4	Organic light-emitting diode-based plausibly physiologically-friendly low color-temperature night light. *Organic Electronics*, **2012**, 13, 1349-1355	3.5	27
3	Organic light-emitting diodes with roll-up character. *Journal of Photonics for Energy*, **2012**, 2, 021208	1.2	6
2	Nearly non-roll-off high efficiency fluorescent yellow organic light-emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 12613		26
1	Very low color-temperature organic light-emitting diodes for lighting at night **2011**,		1