Amita Ummadisingu

List of Publications by Year in Descending Order

24 papers	4,444 citations	17 h-index	25 g-index
25 ext. papers	5,067 ext. citations	18.1 avg, IF	5.5 L-index

#	Paper	IF	Citations
24	Multi-Length Scale Structure of 2D/3D Dion-Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. *Small*, **2021**, e2104287	11	0
23	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure FAPbI. *Science Advances*, **2021**, 7,	14.3	17
22	Crystal-Size-Induced Band Gap Tuning in Perovskite Films. *Angewandte Chemie - International Edition*, **2021**, 60, 21368-21376	16.4	3
21	Crystal-Size-Induced Band Gap Tuning in Perovskite Films. *Angewandte Chemie*, **2021**, 133, 21538-21546	3.6	3
20	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional F Solid-State NMR Spectroscopy. *Journal of the American Chemical Society*, **2020**, 142, 1645-1654	16.4	43
19	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. *Angewandte Chemie - International Edition*, **2020**, 59, 4691-4697	16.4	40
18	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. *Angewandte Chemie*, **2020**, 132, 4721-4727	3.6	
17	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. *Advanced Functional Materials*, **2020**, 30, 2003428	15.6	34
16	Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. *Journal of Materials Chemistry A*, **2020**, 8, 17732-17740	13	7
15	Supramolecular Engineering for Formamidinium-Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-State NMR Spectroscopy. *Advanced Energy Materials*, **2019**, 9, 1900284	21.8	71
14	A chain is as strong as its weakest link Stability study of MAPbI3 under light and temperature. *Materials Today*, **2019**, 29, 10-19	21.8	43
13	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion-Jacobson Two-Dimensional Perovskite Solar Cells. *Nano Letters*, **2019**, 19, 150-157	11.5	140
12	Revealing the detailed path of sequential deposition for metal halide perovskite formation. *Science Advances*, **2018**, 4, e1701402	14.3	62
11	Poly(ethylene glycol)-[60]Fullerene-Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. *ChemSusChem*, **2018**, 11, 1032-1039	8.3	43
10	Boosting the performance of Cu2O photocathodes for unassisted solar water splitting devices. *Nature Catalysis*, **2018**, 1, 412-420	36.5	329
9	The effect of illumination on the formation of metal halide perovskite films. *Nature*, **2017**, 545, 208-212	50.4	197
8	Spontaneous crystal coalescence enables highly efficient perovskite solar cells. *Nano Energy*, **2017**, 39, 24-29	17.1	51

7	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. *Nature Communications*, **2017**, 8, 15390	17.4	181
6	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	1
5	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. *Science*, **2016**, 354, 206-209	33.3	2628
4	Enhancing Efficiency of Perovskite Solar Cells via N-doped Graphene: Crystal Modification and Surface Passivation. *Advanced Materials*, **2016**, 28, 8681-8686	24	228
3	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. *Advanced Energy Materials*, **2016**, 6, 1600767	21.8	165
2	Characteristics and kinetic study of chitosan prepared from seafood industry waste for oil spills cleanup. *Desalination and Water Treatment*, **2012**, 44, 44-51		18
1	Concentrating solar power Technology, potential and policy in India. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 5169-5175	16.2	140