

# Amita Ummadisingu

## List of Publications by Citations

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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	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. <i>Science</i> , <b>2016</b> , 354, 206-209	33.3	2628
23	Boosting the performance of Cu <sub>2</sub> O photocathodes for unassisted solar water splitting devices. <i>Nature Catalysis</i> , <b>2018</b> , 1, 412-420	36.5	329
22	Enhancing Efficiency of Perovskite Solar Cells via N-doped Graphene: Crystal Modification and Surface Passivation. <i>Advanced Materials</i> , <b>2016</b> , 28, 8681-8686	24	228
21	The effect of illumination on the formation of metal halide perovskite films. <i>Nature</i> , <b>2017</b> , 545, 208-212	50.4	197
20	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. <i>Nature Communications</i> , <b>2017</b> , 8, 15390	17.4	181
19	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600767	21.8	165
18	Concentrating solar power Technology, potential and policy in India. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 5169-5175	16.2	140
17	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion-Jacobson Two-Dimensional Perovskite Solar Cells. <i>Nano Letters</i> , <b>2019</b> , 19, 150-157	11.5	140
16	Supramolecular Engineering for Formamidinium-Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-State NMR Spectroscopy. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900284	21.8	71
15	Revealing the detailed path of sequential deposition for metal halide perovskite formation. <i>Science Advances</i> , <b>2018</b> , 4, e1701402	14.3	62
14	Spontaneous crystal coalescence enables highly efficient perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 39, 24-29	17.1	51
13	Poly(ethylene glycol)-[60]Fullerene-Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. <i>ChemSusChem</i> , <b>2018</b> , 11, 1032-1039	8.3	43
12	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional F Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1645-1654	16.4	43
11	A chain is as strong as its weakest link Stability study of MAPbI <sub>3</sub> under light and temperature. <i>Materials Today</i> , <b>2019</b> , 29, 10-19	21.8	43
10	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 4691-4697	16.4	40
9	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003428	15.6	34
8	Characteristics and kinetic study of chitosan prepared from seafood industry waste for oil spills cleanup. <i>Desalination and Water Treatment</i> , <b>2012</b> , 44, 44-51		18

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| 7 | A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure $\text{FAPbI}_3$ . <i>Science Advances</i> , <b>2021</b> , 7,  | 14.3 | 17 |
| 6 | Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17732-17740 | 13   | 7  |
| 5 | Crystal-Size-Induced Band Gap Tuning in Perovskite Films. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21368-21376   | 16.4 | 3  |
| 4 | Crystal-Size-Induced Band Gap Tuning in Perovskite Films. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21538-21546  | 3.6  | 3  |
| 3 | Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). <i>Advanced Energy Materials</i> , <b>2016</b> , 6,   | 21.8 | 1  |
| 2 | Multi-Length Scale Structure of 2D/3D Dion-Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. <i>Small</i> , <b>2021</b> , e2104287                                     | 11   | 0  |
| 1 | Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 4721-4727  | 3.6  |    |