

Aswani Yella

List of Publications by Year in descending order

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papers

12,885
citations

331259

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13420
citing authors

#	ARTICLE	IF	CITATIONS
1	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)-Based Redox Electrolyte Exceed 12 Percent Efficiency. <i>Science</i> , 2011, 334, 629-634.	6.0	5,637
2	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014, 6, 242-247.	6.6	3,982
3	Perovskite solar cells employing organic charge-transport layers. <i>Nature Photonics</i> , 2014, 8, 128-132.	15.6	1,320
4	Molecular Engineering of Push-Pull Porphyrin Dyes for Highly Efficient Dye-Sensitized Solar Cells: The Role of Benzene Spacers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2973-2977.	7.2	458
5	Nanocrystalline Rutile Electron Extraction Layer Enables Low-Temperature Solution Processed Perovskite Photovoltaics with 13.7% Efficiency. <i>Nano Letters</i> , 2014, 14, 2591-2596.	4.5	397
6	An Optically Transparent Iron Nickel Oxide Catalyst for Solar Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 9927-9936.	6.6	247
7	Tunable and Stable White Light Emission in Bi ³⁺ -Alloyed Cs ₂ AgInCl ₆ Double Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 10063-10070.	3.2	113
8	Lattice Dynamics and Electron-Phonon Coupling in Lead-Free Cs ₂ AgInCl ₆ /Bi _x Cl ₆ Double Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2113-2120.	2.1	69
9	Unravel the Impact of Anchoring Groups on the Photovoltaic Performances of Diketopyrrolopyrrole Sensitizers for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2389-2396.	3.2	65
10	Double perovskites overtaking the single perovskites: A set of new solar harvesting materials with much higher stability and efficiency. <i>Physical Review Materials</i> , 2018, 2, .	0.9	60
11	A durable SWCNT/PET polymer foil based metal free counter electrode for flexible dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19609-19615.	5.2	53
12	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2833-2843.	2.7	52
13	Experimental evaluation of room temperature crystallization and phase evolution of hybrid perovskite materials. <i>CrystEngComm</i> , 2017, 19, 3834-3843.	1.3	43
14	Reversible Dimensionality Tuning of Hybrid Perovskites with Humidity: Visualization and Application to Stable Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 3111-3117.	3.2	35
15	Binder-solvent effects on low temperature-processed carbon-based, hole-transport layer free perovskite solar cells. <i>Materials Chemistry and Physics</i> , 2020, 256, 123594.	2.0	28
16	Thiocyanate-Free Ru(II) Sensitizers with a 4,4'-Dicarboxyvinyl-2,2'-bipyridine Anchor for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 2285-2294.	7.8	27
17	TiO ₂ colloid-based compact layers for hybrid lead halide perovskite solar cells. <i>Applied Materials Today</i> , 2017, 7, 112-119.	2.3	24
18	Interface engineering through electron transport layer modification for high efficiency organic solar cells. <i>RSC Advances</i> , 2018, 8, 5984-5991.	1.7	24

#	ARTICLE	IF	CITATIONS
19	Acetylene-bridged dyes with high open circuit potential for dye-sensitized solar cells. RSC Advances, 2014, 4, 35251.	1.7	23
20	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. Inorganic Chemistry, 2016, 55, 7388-7395.	1.9	21
21	Enhanced charge transport in low temperature carbon-based n-i-p perovskite solar cells with NiOx-CNT hole transport material. Solar Energy Materials and Solar Cells, 2021, 230, 111241.	3.0	19
22	Mixed metal antimony oxide nanocomposites: low pH water oxidation electrocatalysts with outstanding durability at ambient and elevated temperatures. Journal of Materials Chemistry A, 2021, 9, 27468-27484.	5.2	19
23	Efficient light trapping and interface engineering for performance enhancement in PTB7-Th: PC70BM organic solar cells. Organic Electronics, 2017, 41, 280-286.	1.4	18
24	Humidity-Mediated Synthesis of Highly Luminescent and Stable CsPbX ₃ (X=Cl, Br, I) Nanocrystals. Energy Technology, 2020, 8, 1900890.	1.8	13
25	ZnX ₂ mediated post-synthetic transformation of zero dimensional Cs ₄ PbBr ₆ nanocrystals for opto-electronic applications. Nanoscale Advances, 2019, 1, 2502-2509.	2.2	8
26	Synthesis of bismuth sulphoiodide thin films from single precursor solution. Solar Energy, 2021, 230, 714-720.	2.9	7
27	All Room-Temperature-Processed Carbon-Based Flexible Perovskite Solar Cells with TiO ₂ Electron Collection Layer. Energy Technology, 2022, 10, .	1.8	4
28	High-Efficiency Organic Solar Cells With Solution Processable Non-Fullerene Acceptor as an Interlayer. IEEE Journal of Photovoltaics, 2019, 9, 1266-1272.	1.5	3
29	Simultaneous enhancement of light absorption and improved charge collection in PTB7-Th: PC70BM organic solar cells. MRS Advances, 2017, 2, 835-840.	0.5	1