

Aswani Yella

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8413466/aswani-yella-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31 papers	11,559 citations	18 h-index	31 g-index
31 ext. papers	12,244 ext. citations	8.9 avg, IF	6.05 L-index

#	Paper	IF	Citations
31	Mixed metalAntimony oxide nanocomposites: low pH water oxidation electrocatalysts with outstanding durability at ambient and elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27468-27484	13	6
30	Synthesis of bismuth sulphoiodide thin films from single precursor solution. <i>Solar Energy</i> , 2021 , 230, 714-720	6.8	1
29	Enhanced charge transport in low temperature carbon-based n-i-p perovskite solar cells with NiOx-CNT hole transport material. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111241	6.4	4
28	Lattice Dynamics and Electron-Phonon Coupling in Lead-Free CsAgInBiCl Double Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2113-2120	6.4	30
27	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	4.4	11
26	Humidity-Mediated Synthesis of Highly Luminescent and Stable CsPbX ₃ (X = Cl, Br, I) Nanocrystals. <i>Energy Technology</i> , 2020 , 8, 1900890	3.5	7
25	ZnX ₂ mediated post-synthetic transformation of zero dimensional Cs ₄ PbBr ₆ nanocrystals for opto-electronic applications. <i>Nanoscale Advances</i> , 2019 , 1, 2502-2509	5.1	4
24	Reversible Dimensionality Tuning of Hybrid Perovskites with Humidity: Visualization and Application to Stable Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 3111-3117	9.6	20
23	. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1266-1272	3.7	3
22	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	9.6	63
21	Interface engineering through electron transport layer modification for high efficiency organic solar cells.. <i>RSC Advances</i> , 2018 , 8, 5984-5991	3.7	21
20	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,	3.2	35
19	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	7.1	42
18	Experimental evaluation of room temperature crystallization and phase evolution of hybrid perovskite materials. <i>CrystEngComm</i> , 2017 , 19, 3834-3843	3.3	29
17	Simultaneous enhancement of light absorption and improved charge collection in PTB7-Th: PC70BM organic solar cells. <i>MRS Advances</i> , 2017 , 2, 835-840	0.7	1
16	TiO ₂ colloid-based compact layers for hybrid lead halide perovskite solar cells. <i>Applied Materials Today</i> , 2017 , 7, 112-119	6.6	17
15	Efficient light trapping and interface engineering for performance enhancement in PTB7-Th: PC70BM organic solar cells. <i>Organic Electronics</i> , 2017 , 41, 280-286	3.5	17

14	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2016 , 55, 7388-95	5.1	18
13	An Optically Transparent Iron Nickel Oxide Catalyst for Solar Water Splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9927-36	16.4	212
12	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	8.3	56
11	Molecular Engineering of PushPull Porphyrin Dyes for Highly Efficient Dye-Sensitized Solar Cells: The Role of Benzene Spacers. <i>Angewandte Chemie</i> , 2014 , 126, 3017-3021	3.6	95
10	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, 2973-7	16.4	369
9	Nanocrystalline rutile electron extraction layer enables low-temperature solution processed perovskite photovoltaics with 13.7% efficiency. <i>Nano Letters</i> , 2014 , 14, 2591-6	11.5	352
8	Perovskite solar cells employing organic charge-transport layers. <i>Nature Photonics</i> , 2014 , 8, 128-132	33.9	1196
7	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014 , 6, 242-7	17.6	3560
6	Acetylene-bridged dyes with high open circuit potential for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 35251	3.7	20
5	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	13	52
4	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	15.6	26
3	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 8893-8897	3.6	8
2	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <i>Science</i> , 2011 , 334, 629-34	33.3	5284
1	All Room-Temperature-Processed Carbon-Based Flexible Perovskite Solar Cells with TiO ₂ Electron Collection Layer. <i>Energy Technology</i> , 2200282	3.5	0