

Negar Ashari Astani

List of Publications by Year in descending order

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14
papers

5,658
citations

840776

11
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

8614
citing authors

#	ARTICLE	IF	CITATIONS
1	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014, 6, 242-247.	13.6	3,982
2	Entropic stabilization of mixed A-cation ABX ₃ metal halide perovskites for high performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 656-662.	30.8	1,077
3	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013, 25, 2733-2739.	6.7	154
4	Valence and conduction band tuning in halide perovskites for solar cell applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15997-16002.	10.3	132
5	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8731-8735.	13.8	61
6	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013, 25, 2642-2648.	6.7	49
7	Synthesis, characterization and ab initio investigation of a panchromatic ullazine-porphyrin photosensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2332-2339.	10.3	47
8	Effect of graphene oxide nanosheets on visible light-assisted antibacterial activity of vertically-aligned copper oxide nanowire arrays. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 119-131.	9.4	45
9	Computational Characterization of the Dependence of Halide Perovskite Effective Masses on Chemical Composition and Structure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23886-23895.	3.1	38
10	In Situ Mapping of the Molecular Arrangement of Amphiphilic Dye Molecules at the TiO ₂ Surface of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10834-10842.	8.0	30
11	Pushing the Frontiers of First-Principles Based Computer Simulations of Chemical and Biological Systems. <i>Chimia</i> , 2011, 65, 667.	0.6	22
12	Extended Intermolecular Interactions Governing Photocurrent-Voltage Relations in Ternary Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3936-3944.	4.6	11
13	Molecular Machinery Responsible for Graphene Oxide's Distinct Inhibitory Effects toward <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> Pathogens. <i>ACS Applied Bio Materials</i> , 2021, 4, 660-668.	4.6	6
14	Lessons from Nature: Computational Design of Biomimetic Compounds and Processes. <i>Chimia</i> , 2014, 68, 642.	0.6	4