

Octavi Escala Semonin

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

3,705
citations

840776

11
h-index

1281871

11
g-index

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all docs

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docs citations

12
times ranked

4964
citing authors

#	ARTICLE	IF	CITATIONS
1	Peak External Photocurrent Quantum Efficiency Exceeding 100% via MEG in a Quantum Dot Solar Cell. <i>Science</i> , 2011, 334, 1530-1533.	12.6	1,511
2	Stability Assessment on a 3% Bilayer PbS/ZnO Quantum Dot Heterojunction Solar Cell. <i>Advanced Materials</i> , 2010, 22, 3704-3707.	21.0	351
3	Third Generation Photovoltaics based on Multiple Exciton Generation in Quantum Confined Semiconductors. <i>Accounts of Chemical Research</i> , 2013, 46, 1252-1260.	15.6	340
4	Quantum Dot Size Dependent J_{sc} Characteristics in Heterojunction ZnO/PbS Quantum Dot Solar Cells. <i>Nano Letters</i> , 2011, 11, 1002-1008.	9.1	277
5	n-Type Transition Metal Oxide as a Hole Extraction Layer in PbS Quantum Dot Solar Cells. <i>Nano Letters</i> , 2011, 11, 3263-3266.	9.1	258
6	Quantum dots for next-generation photovoltaics. <i>Materials Today</i> , 2012, 15, 508-515.	14.2	257
7	Absolute Photoluminescence Quantum Yields of IR-26 Dye, PbS, and PbSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2445-2450.	4.6	256
8	Variations in the Quantum Efficiency of Multiple Exciton Generation for a Series of Chemically Treated PbSe Nanocrystal Films. <i>Nano Letters</i> , 2009, 9, 836-845.	9.1	219
9	Tuning the Synthesis of Ternary Lead Chalcogenide Quantum Dots by Balancing Precursor Reactivity. <i>ACS Nano</i> , 2011, 5, 183-190.	14.6	125
10	Strained Interface Defects in Silicon Nanocrystals. <i>Advanced Functional Materials</i> , 2012, 22, 3223-3232.	14.9	63
11	Improvement in carrier transport properties by mild thermal annealing of PbS quantum dot solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	48
12	Optical characterization and modeling of the lead chalcogenide quantum dot solar cell: A rational approach to device development and multiple exciton generation. , 2010, , .		0