

Nelson Rowell

List of Publications by Year in descending order

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17
papers

644
citations

686830

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887659

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17
docs citations

17
times ranked

372
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing intermediates of the induction period prior to nucleation and growth of semiconductor quantum dots. <i>Nature Communications</i> , 2017, 8, 15467.	5.8	87
2	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018, 9, 2499.	5.8	79
3	Two-Step Nucleation of CdS Magic-Size Nanocluster MSC ³¹¹ . <i>Chemistry of Materials</i> , 2017, 29, 5727-5735.	3.2	68
4	Individual Pathways in the Formation of Magic-Size Clusters and Conventional Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3660-3666.	2.1	62
5	Interpreting the Ultraviolet Absorption in the Spectrum of 415 nm-Bandgap CdSe Magic-Size Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2818-2824.	2.1	57
6	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018, 5, 1800632.	5.6	56
7	Evolution of Two Types of CdTe Magic-Size Clusters from a Single Induction Period Sample. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5288-5295.	2.1	46
8	Transformations Among Colloidal Semiconductor Magic-Size Clusters. <i>Accounts of Chemical Research</i> , 2021, 54, 776-786.	7.6	35
9	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. <i>Chemistry of Materials</i> , 2018, 30, 1575-1584.	3.2	32
10	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 75-82.	2.1	32
11	Photoluminescent Colloidal Nanohelices Self-Assembled from CdSe Magic-Size Clusters via Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2794-2801.	2.1	24
12	Effect of Small Molecule Additives in the Prenucleation Stage of Semiconductor CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6356-6363.	2.1	22
13	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2230-2240.	2.1	21
14	Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20358-20365.	7.2	15
15	Identifying Clusters and/or Small-Size Quantum Dots in Colloidal CdSe Ensembles with Optical Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6399-6408.	2.1	4
16	Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm. <i>Angewandte Chemie</i> , 2021, 133, 20521-20528.	1.6	2
17	Size matters: Steric hindrance of precursor molecules controlling the evolution of CdSe magic-size clusters and quantum dots. <i>Nano Research</i> , 2022, 15, 8564-8572.	5.8	2