

Meng Zhang

List of Publications by Year in descending order

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57
papers

1,089
citations

331259

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59
all docs

59
docs citations

59
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018, 5, 1800632.	5.6	56
4	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. <i>Nature Communications</i> , 2019, 10, 1674.	5.8	49
5	Demonstration of Nonlinear-Energy-Spread Compensation in Relativistic Electron Bunches with Corrugated Structures. <i>Physical Review Letters</i> , 2015, 114, 114801.	2.9	48
6	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
7	CO ₂ -Switchable Self-Healing Host-Guest Hydrogels. <i>Macromolecules</i> , 2017, 50, 9696-9701.	2.2	45
8	Supramolecular hydrogelation with bile acid derivatives: structures, properties and applications. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7506-7520.	2.9	44
9	Four Types of CdTe Magic-Size Clusters from One Prenucleation Stage Sample at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4345-4353.	2.1	44
10	Experimental Demonstration of Longitudinal Beam Phase-Space Linearizer in a Free-Electron Laser Facility by Corrugated Structures. <i>Physical Review Letters</i> , 2014, 113, 254802.	2.9	43
11	Transformations Among Colloidal Semiconductor Magic-Size Clusters. <i>Accounts of Chemical Research</i> , 2021, 54, 776-786.	7.6	35
12	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12013-12021.	7.2	33
13	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
14	Morphology and rheology of poly(l-lactide)/polystyrene blends filled with silica nanoparticles. <i>Journal of Materials Science</i> , 2012, 47, 1339-1347.	1.7	25
15	One-Step Approach to Single-Ensemble CdS Magic-Size Clusters with Enhanced Production Yields. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2725-2732.	2.1	25
16	Measurement of the average local energy spread of electron beam via coherent harmonic generation. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	24
17	Aggregated Gas Molecules: Toxic to Protein?. <i>Scientific Reports</i> , 2013, 3, 1660.	1.6	24
18	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

#	ARTICLE	IF	CITATIONS
19	A Two-Step Pathway Model for the Evolution of Colloidal Compound Semiconductor Quantum Dots and Magic-Size Clusters. <i>Advanced Materials</i> , 2022, 34, e2107940.	11.1	24
20	Self-Assembly of a Bile Acid Dimer in Aqueous Solutions: From Nanofibers to Nematic Hydrogels. <i>Langmuir</i> , 2017, 33, 1084-1089.	1.6	23
21	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16943-16952.	7.2	22
22	Room-temperature formation of CdS magic-size clusters in aqueous solutions assisted by primary amines. <i>Nature Communications</i> , 2020, 11, 4199.	5.8	21
23	Unveiling the Two-Step Formation Pathway of Cs ₄ PbBr ₆ Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 4574-4583.	3.2	21
24	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
25	CO ₂ Sequestration by Bile Salt Aqueous Solutions and Formation of Supramolecular Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3949-3955.	3.2	17
26	Reversible Transformations at Room Temperature among Three Types of CdTe Magic-Size Clusters. <i>Inorganic Chemistry</i> , 2021, 60, 4243-4251.	1.9	17
27	Ophthalmic Drops with Nanoparticles Derived from a Natural Product for Treating Age-Related Macular Degeneration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57710-57720.	4.0	15
28	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
29	High brightness fully coherent x-ray amplifier seeded by a free-electron laser oscillator. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	0.6	15
30	The precursor compound of two types of ZnSe magic-sized clusters. <i>Nano Research</i> , 2022, 15, 465-474.	5.8	14
31	A Real-Time In Situ Demonstration of Direct and Indirect Transformation Pathways in CdTe Magic-Size Clusters at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
32	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie</i> , 2020, 132, 12111-12119.	1.6	13
33	Design study for the cascaded HGHG experiment based on the SDUV-FEL. <i>Science Bulletin</i> , 2012, 57, 3423-3429.	1.7	11
34	Formation of molecular hydrogels from a bile acid derivative and selected carboxylic acids. <i>RSC Advances</i> , 2016, 6, 35436-35440.	1.7	11
35	Concentration of nitrogen molecules needed by nitrogen nanobubbles existing in bulk water. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013, 34, 1433-1438.	1.9	10
36	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. <i>Nano Research</i> , 2019, 12, 1437-1444.	5.8	9

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37	<i>In situ</i> SAXS probing the evolution of the precursors and onset of nucleation of ZnSe colloidal semiconductor quantum dots. <i>Chemical Communications</i> , 2020, 56, 2031-2034.	2.2	8
38	Nonlinear energy chirp compensation with corrugated structures. <i>Nuclear Science and Techniques/Hewuli</i> , 2018, 29, 1.	1.3	7
39	Transformation Pathway from CdSe Nanoplatelets with Absorption Doublets at 373/393 nm to Nanoplatelets at 434/460 nm. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3983-3989.	2.1	7
40	Performance of an electron linear accelerator for the first photoneutron source in China. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1.	1.3	6
41	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie</i> , 2020, 132, 17091-17100.	1.6	6
42	Evolution of Two Types of ZnTe Magic-Size Clusters Displaying Sharp Doublets in Optical Absorption. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4762-4768.	2.1	6
43	DFT study for the absorption spectra evolution of CdS magic-size clusters. <i>Chemical Physics Letters</i> , 2021, 779, 138870.	1.2	6
44	Precursor compound enabled formation of aqueous-phase CdSe magic-size clusters at room temperature. <i>Nano Research</i> , 2022, 15, 2634-2642.	5.8	6
45	Cholic acid dimers as invertible amphiphilic pockets: synthesis, molecular modeling, and inclusion studies. <i>Canadian Journal of Chemistry</i> , 2017, 95, 792-798.	0.6	4
46	Transverse phase space reconstruction study in Shanghai soft X-ray FEL facility. <i>Nuclear Science and Techniques/Hewuli</i> , 2018, 29, 1.	1.3	4
47	Energetics of Nonradiative Surface Trap States in Nanoparticles Monitored by Time-of-Flight Photoconduction Measurements on Nanoparticle-Polymer Blends. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37184-37192.	4.0	4
48	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
49	Probing the Relationship between Gelation and Crystallization by Using Salts of Lithocholic Acid. <i>Crystal Growth and Design</i> , 2022, 22, 643-652.	1.4	3
50	Evolution of Photoluminescent CdS Magic-Size Clusters Assisted by Adding Small Molecules with Carboxylic Group. <i>ACS Omega</i> , 2021, 6, 14458-14466.	1.6	2
51	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
52	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
53	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. <i>ACS Omega</i> , 2021, 6, 18711-18718.	1.6	1
54	Probing the Relationship between Crystallization and Gelation by Using Ammonium Salts of Bile Acids. <i>Crystal Growth and Design</i> , 0, . .	1.4	1

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55	Real-Time In situ Demonstration of Direct and Indirect Transformation Pathways in CdTe Magic-Size Clusters at Room Temperature. <i>Angewandte Chemie</i> , 0, , .	1.6	1
56	Innentitelbild: Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters (<i>Angew.</i>) Tj ETQq0 0 0 rgBT /Qverlock 10	1.8	0
57	Innenr¼cktitelbild: Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393â€¦nm to Clusters at 434/460â€¦nm (<i>Angew. Chem.</i> 37/2021). <i>Angewandte Chemie</i> , 2021, 133, 20731-20731. ⁰	1.6	0