

Meng Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

695
citations

17
h-index

24
g-index

59
ext. papers

885
ext. citations

7.4
avg, IF

4.2
L-index

#	Paper	IF	Citations
52	Individual Pathways in the Formation of Magic-Size Clusters and Conventional Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3660-3666	6.4	43
51	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	6.4	40
50	Demonstration of nonlinear-energy-spread compensation in relativistic electron bunches with corrugated structures. <i>Physical Review Letters</i> , 2015 , 114, 114801	7.4	38
49	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018 , 5, 1800632	13.6	38
48	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. <i>Nature Communications</i> , 2019 , 10, 1674	17.4	36
47	CO ₂ -Switchable Self-Healing Host-Guest Hydrogels. <i>Macromolecules</i> , 2017 , 50, 9696-9701	5.5	34
46	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	6.4	33
45	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	7.4	32
44	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	6.4	29
43	Supramolecular hydrogelation with bile acid derivatives: structures, properties and applications. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7506-7520	7.3	27
42	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	6.4	22
41	Morphology and rheology of poly(l-lactide)/polystyrene blends filled with silica nanoparticles. <i>Journal of Materials Science</i> , 2012 , 47, 1339-1347	4.3	22
40	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	16.4	20
39	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	6.4	20
38	Self-Assembly of a Bile Acid Dimer in Aqueous Solutions: From Nanofibers to Nematic Hydrogels. <i>Langmuir</i> , 2017 , 33, 1084-1089	4	19
37	Photoluminescent Colloidal Nanohelices Self-Assembled from CdSe Magic-Size Clusters via Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2794-2801	6.4	19
36	Aggregated gas molecules: toxic to protein?. <i>Scientific Reports</i> , 2013 , 3, 1660	4.9	19

35	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,		17
34	Transformations Among Colloidal Semiconductor Magic-Size Clusters. <i>Accounts of Chemical Research</i> , 2021 , 54, 776-786	24.3	16
33	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16943-16952	16.4	15
32	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	6.4	15
31	Reversible Transformations at Room Temperature among Three Types of CdTe Magic-Size Clusters. <i>Inorganic Chemistry</i> , 2021 , 60, 4243-4251	5.1	11
30	Unveiling the Two-Step Formation Pathway of Cs ₄ PbBr ₆ Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 4574-4583	9.6	10
29	High brightness fully coherent x-ray amplifier seeded by a free-electron laser oscillator. <i>Physical Review Accelerators and Beams</i> , 2018 , 21,	1.8	10
28	Room-temperature formation of CdS magic-size clusters in aqueous solutions assisted by primary amines. <i>Nature Communications</i> , 2020 , 11, 4199	17.4	10
27	Design study for the cascaded HGHG experiment based on the SDUV-FEL. <i>Science Bulletin</i> , 2012 , 57, 3423-3429g		
26	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	3.6	8
25	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	16.4	8
24	Formation of molecular hydrogels from a bile acid derivative and selected carboxylic acids. <i>RSC Advances</i> , 2016 , 6, 35436-35440	3.7	8
23	CO ₂ Sequestration by Bile Salt Aqueous Solutions and Formation of Supramolecular Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3949-3955	8.3	7
22	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. <i>Nano Research</i> , 2019 , 12, 1437-1444	10	6
21	In situ 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	5.8	6
20	Concentration of nitrogen molecules needed by nitrogen nanobubbles existing in bulk water. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013 , 34, 1433-1438	3.2	5
19	Nonlinear energy chirp compensation with corrugated structures. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	5
18	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	6.4	4

17	A Two-Pathway Model for the Evolution of Colloidal Compound Semiconductor Quantum Dots and Magic-Size Clusters.. <i>Advanced Materials</i> , 2022 , e2107940	24	4
16	The precursor compound of two types of ZnSe magic-sized clusters. <i>Nano Research</i> , 2022 , 15, 465	10	4
15	Performance of an electron linear accelerator for the first photoneutron source in China. <i>Nuclear Science and Techniques/Hewuli</i> , 2019 , 30, 1	2.1	3
14	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie</i> , 2020 , 132, 17091-17100	3.6	3
13	Cholic acid dimers as invertible amphiphilic pockets: synthesis, molecular modeling, and inclusion studies. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 792-798	0.9	3
12	Transverse phase space reconstruction study in Shanghai soft X-ray FEL facility. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	3
11	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	9.5	2
10	DFT study for the absorption spectra evolution of CdS magic-size clusters. <i>Chemical Physics Letters</i> , 2021 , 779, 138870	2.5	2
9	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 , 3983-3989	6.4	2
8	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	9.5	1
7	Evolution of Photoluminescent CdS Magic-Size Clusters Assisted by Adding Small Molecules with Carboxylic Group. <i>ACS Omega</i> , 2021 , 6, 14458-14466	3.9	1
6	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	6.4	1
5	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	3.6	0
4	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. <i>ACS Omega</i> , 2021 , 6, 18711-18718	3.9	0
3	Precursor compound enabled formation of aqueous-phase CdSe magic-size clusters at room temperature. <i>Nano Research</i> , 1	10	0
2	Innentitelbild: Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters (Angew. Chem. 39/2020). <i>Angewandte Chemie</i> , 2020 , 132, 16950-16950	3.6	
1	Innenrücktitelbild: Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm (Angew. Chem. 37/2021). <i>Angewandte Chemie</i> , 2021 , 133, 20731-20731	3.6	