

Hua Zhu

List of Publications by Year in descending order

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28
papers

1,236
citations

430442

18
h-index

476904

29
g-index

32
all docs

32
docs citations

32
times ranked

2139
citing authors

#	ARTICLE	IF	CITATIONS
1	Superstructures generated from truncated tetrahedral quantum dots. <i>Nature</i> , 2018, 561, 378-382.	13.7	143
2	Lead-Free Cs ₄ CuSb ₂ Cl ₁₂ Layered Double Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020, 142, 11927-11936.	6.6	131
3	Synthesis of All-Inorganic Cd-Doped CsPbCl ₃ Perovskite Nanocrystals with Dual-Wavelength Emission. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7079-7084.	2.1	92
4	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1970-1975.	8.8	82
5	Single-component quasicrystalline nanocrystal superlattices through flexible polygon tiling rule. <i>Science</i> , 2018, 362, 1396-1400.	6.0	79
6	Pressure-Induced Phase Transformation and Band-Gap Engineering of Formamidinium Lead Iodide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4199-4205.	2.1	78
7	Stereoselective C ⁺ C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr ₃ Perovskite Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22563-22569.	7.2	73
8	Pressure-Enabled Synthesis of Hetero-Dimers and Hetero-Rods through Intraparticle Coalescence and Interparticle Fusion of Quantum-Dot-Au Satellite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 8408-8411.	6.6	62
9	Squaramide-Catalyzed Synthesis of Enantioenriched Spirocyclic Oxindoles via Ketimine Intermediates with Multiple Active Sites. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13253-13257.	7.2	49
10	Multi-component superstructures self-assembled from nanocrystal building blocks. <i>Nanoscale</i> , 2016, 8, 9944-9961.	2.8	49
11	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 6013-6021.	6.6	49
12	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , 2021, 33, 547-564.e7.	7.2	48
13	Quantum Dot Photocatalysts for Organic Transformations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7180-7193.	2.1	48
14	Cu-Catalyzed Synthesis of CdZnSe/CdZnS Alloy Quantum Dots with Highly Tunable Emission. <i>Chemistry of Materials</i> , 2019, 31, 2635-2643.	3.2	41
15	In vivo photoacoustic tumor tomography using a quinoline-annulated porphyrin as NIR molecular contrast agent. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 972-983.	1.5	31
16	Three-dimensional macroporous photonic crystal enhanced photon collection for quantum dot-based luminescent solar concentrator. <i>Nano Energy</i> , 2020, 67, 104217.	8.2	29
17	Asymmetric synthesis of poly-substituted spirocyclohexane oxindole via a squaramide catalyzed cascade Michael-Michael-aldol sequence. <i>Organic Chemistry Frontiers</i> , 2015, 2, 110-113.	2.3	26
18	Self-Assembly of Quantum Dot-Gold Heterodimer Nanocrystals with Orientational Order. <i>Nano Letters</i> , 2018, 18, 5049-5056.	4.5	25

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19	Colloidal Assembly of Au-Quantum Dot-Au Sandwiched Nanostructures with Strong Plasmon-Exciton Coupling. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2449-2456.	2.1	18
20	Stereoselective C-C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr ₃ Perovskite Quantum Dots. <i>Angewandte Chemie</i> , 2020, 132, 22752-22758.	1.6	16
21	Reversible Photo-Switching of Dual-Color Fluorescent Mn-Doped CdS-ZnS Quantum Dots Modulated by Diarylethene Molecules. <i>Frontiers in Chemistry</i> , 2019, 7, 145.	1.8	13
22	Reactive two-component monolayers template bottom-up assembly of nanoparticle arrays on HOPG. <i>Chemical Communications</i> , 2018, 54, 8056-8059.	2.2	12
23	Pressure-Induced Transformations of Three-Component Heterostructural Nanocrystals with Cd-Au ₂ S Janus Nanoparticles as Hosts and Small Au Nanoparticles as Satellites. <i>ACS Applied Nano Materials</i> , 2019, 2, 6804-6808.	2.4	11
24	Dual-organocatalytic Michael/Michael/aldol cascade reaction for the asymmetric construction of fully-substituted cyclohexane. <i>Tetrahedron Letters</i> , 2016, 57, 5768-5770.	0.7	8
25	Manipulating Charge Transfer from Core to Shell in CdSe/CdS/Au Heterojunction Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48551-48555.	4.0	7
26	Influence of local structures on the energy transfer efficiencies of quantum-dot films. <i>Physical Review B</i> , 2020, 102, .	1.1	3
27	Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles. <i>Journal of Chemical Physics</i> , 2022, 156, 154701.	1.2	3
28	Fast Lifetime Blinking in Compact CdSe/CdS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15433-15440.	1.5	2