Huicheng Hu

List of Publications by Year
in descending order

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30 papers	3,992 citations	304743 22 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	4836 citing authors

#	Article	IF	Citations
1	Covalent surface modifications and superconductivity of two-dimensional metal carbide MXenes. Science, 2020, 369, 979-983.	12.6	870
2	One-Pot Synthesis of Highly Stable CsPbBr₃@SiO₂ Coreâ€“Shell Nanoparticles. ACS Nano, 2018, 12, 8579-8587.	14.6	447
3	From Nonluminescent Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals to Highly Luminescent CsPbX₃ Nanocrystals: Water-Triggered Transformation through a CsX-Stripping Mechanism. Nano Letters, 2017, 17, 5799-5804.	9.1	367
4	Interfacial Synthesis of Highly Stable CsPbX₃/Oxide Janus Nanoparticles. Journal of the American Chemical Society, 2018, 140, 406-412.	13.7	348
5	Solvothermal Synthesis of Highâ€Quality Allâ€Inorganic Cesium Lead Halide Perovskite Nanocrystals: From Nanocube to Ultrathin Nanowire. Advanced Functional Materials, 2017, 27, 1701121.	14.9	283
6	Integrating MXene nanosheets with cobalt-tipped carbon nanotubes for an efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 1281-1286.	10.3	181
7	Microwave-assisted synthesis of high-quality â€œall-inorganicâ€•CsPbX₃ (X = Cl, Br, I) perovskite nanocrystals and their application in light emitting diodes. Journal of Materials Chemistry C, 2017, 5, 10947-10954.	5.5	180
8	L-Type Ligand-Assisted Acid-Free Synthesis of CsPbBr₃ Nanocrystals with Near-Unity Photoluminescence Quantum Yield and High Stability. Nano Letters, 2019, 19, 4151-4157.	9.1	177
9	Improving the Stability and Size Tunability of Cesium Lead Halide Perovskite Nanocrystals Using Trioctylphosphine Oxide as the Capping Ligand. Langmuir, 2017, 33, 12689-12696.	3.5	165
10	Large-scale synthesis of ultrathin cesium lead bromide perovskite nanoplates with precisely tunable dimensions and their application in blue light-emitting diodes. Nano Energy, 2018, 47, 235-242.	16.0	154
11	Fabricating CsPbX₃-Based Type I and Type II Heterostructures by Tuning the Halide Composition of Janus CsPbX₃/ZrO₂ Nanocrystals. ACS Nano, 2019, 13, 5366-5374.	14.6	147
12	Solvothermal Synthesis of Alloyed PtNi Colloidal Nanocrystal Clusters (CNCs) with Enhanced Catalytic Activity for Methanol Oxidation. Advanced Functional Materials, 2018, 28, 1704774.	14.9	126
13	Reversible and Precise Self-Assembly of Janus Metal-Organosilica Nanoparticles through a Linker-Free Approach. ACS Nano, 2016, 10, 7323-7330.	14.6	95
14	Interfacial Synthesis of Monodisperse CsPbBr₃ Nanorods with Tunable Aspect Ratio and Clean Surface for Efficient Light-Emitting Diode Applications. Chemistry of Materials, 2019, 31, 1575-1583.	6.7	78
15	Fabricating MAPbI₃/MoS₂ Composites for Improved Photocatalytic Performance. Nano Letters, 2021, 21, 597-604.	9.1	60
16	Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals: Preparation, Water-Triggered Transformation Behavior, and Anti-Counterfeiting Application. Langmuir, 2018, 34, 10363-10370.	3.5	53
17	Controlled growth of dodecapod-branched CsPbBr3 nanocrystals and their application in white light emitting diodes. Nano Energy, 2018, 53, 559-566.	16.0	45
18	Synthesis of Janus Au@periodic mesoporous organosilica (PMO) nanostructures with precisely controllable morphology: a seed-shape defined growth mechanism. Nanoscale, 2017, 9, 4826-4834.	5.6	42

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19	Highly Stable CsPbBr₃ Colloidal Nanocrystal Clusters as Photocatalysts in Polar Solvents. ACS Applied Materials & Interfaces, 2021, 13, 4017-4025.	8.0	31
20	Consecutive Interfacial Transformation of Cesium Lead Halide Nanocubes to Ultrathin Nanowires with Improved Stability. ACS Applied Materials & Interfaces, 2019, 11, 3351-3359.	8.0	27
21	Solvothermal synthesis of cesium lead halide nanocrystals with controllable dimensions: a stoichiometry defined growth mechanism. Journal of Materials Chemistry C, 2019, 7, 14493-14498.	5.5	23
22	High-Yield Synthesis of Janus Dendritic Mesoporous Silica@Resorcinolâ€“Formaldehyde Nanoparticles: A Competing Growth Mechanism. Langmuir, 2017, 33, 5269-5274.	3.5	22
23	A simple approach to the synthesis of eccentric Au@SiO2 Janus nanostructures and their catalytic applications. Surface Science, 2016, 648, 313-318.	1.9	18
24	Halide-free synthesis of Au nanoplates and monitoring the shape evolution process through a marker experiment. Journal of Materials Chemistry C, 2016, 4, 6457-6460.	5.5	14
25	Facetâ€Selective Deposition of Metal (M=Au, Pt, Pd) Nanoparticles on Co₃O₄ Crystals: Magnetically Separable Photocatalyst with Improved Catalytic Performance. ChemPlusChem, 2018, 83, 334-338.	2.8	11
26	Fully Alloying AuAg Nanorods in a Photothermal Nano-Oven: Superior Plasmonic Property and Enhanced Chemical Stability. ACS Omega, 2018, 3, 18623-18629.	3.5	10
27	Highâ€Yield Synthesis of Au@Ag Right Bipyramids and Selfâ€Assembly into Fourâ€Leafâ€Cloverâ€like Structures. Particle and Particle Systems Characterization, 2018, 35, 1700114.	2.3	8
28	High-yield colloidal synthesis of monometallic Au nanorodâ€“Au nanoparticle dimers and their application in SERS. RSC Advances, 2017, 7, 12322-12328.	3.6	7
29	An etchingâ€“redeposition isomerization process for the shape control of anatase TiO2 nanocrystals. Materials Chemistry Frontiers, 2019, 3, 874-880.	5.9	3
30	Atomic-Resolution Imaging and Spectroscopy of Functionalized MXene Nanosheets. Microscopy and Microanalysis, 2020, 26, 2328-2330.	0.4	0