

Congyang Zhang

List of Publications by Year in descending order

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29
papers

2,200
citations

304602

22
h-index

477173

29
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29
all docs

29
docs citations

29
times ranked

2672
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption. <i>Nature Communications</i> , 2017, 8, 1138.	5.8	374
2	Morphology Evolution and Degradation of CsPbBr ₃ Nanocrystals under Blue Light-Emitting Diode Illumination. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7249-7258.	4.0	314
3	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 379-385.	15.6	260
4	Ceramic-like stable CsPbBr ₃ nanocrystals encapsulated in silica derived from molecular sieve templates. <i>Nature Communications</i> , 2020, 11, 31.	5.8	185
5	Transformation of metal-organic frameworks for molecular sieving membranes. <i>Nature Communications</i> , 2016, 7, 11315.	5.8	140
6	Postsynthesis Phase Transformation for CsPbBr ₃ /Rb ₄ PbBr ₆ Core/Shell Nanocrystals with Exceptional Photostability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23303-23310.	4.0	98
7	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7488-7501.	7.2	80
8	Metal-Organic Framework/PVDF Composite Membranes with High H ₂ Permselectivity Synthesized by Ammoniation. <i>Chemistry - A European Journal</i> , 2015, 21, 7224-7230.	1.7	72
9	Surface Ligand Engineering toward Brightly Luminescent and Stable Cesium Lead Halide Perovskite Nanoplatelets for Efficient Blue-Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26161-26169.	1.5	59
10	Large-Scale Synthesis of Highly Luminescent Perovskite Nanocrystals by Template-Assisted Solid-State Reaction at 800 Å°C. <i>Chemistry of Materials</i> , 2020, 32, 308-314.	3.2	57
11	Stabilizing perovskite nanocrystals by controlling protective surface ligands density. <i>Nano Research</i> , 2019, 12, 1461-1465.	5.8	56
12	Synthesis of trinity metal-organic framework membranes for CO ₂ capture. <i>Chemical Communications</i> , 2014, 50, 3214-3216.	2.2	51
13	Non-activation ZnO array as a buffering layer to fabricate strongly adhesive metal-organic framework/PVDF hollow fiber membranes. <i>Chemical Communications</i> , 2014, 50, 9711.	2.2	49
14	Metal based gels as versatile precursors to synthesize stiff and integrated MOF/polymer composite membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20345-20351.	5.2	45
15	Hydrofluoroethers as orthogonal solvents for all-solution processed perovskite quantum-dot light-emitting diodes. <i>Nano Energy</i> , 2018, 51, 358-365.	8.2	40
16	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021, 6, 3545-3554.	8.8	39
17	Sustainable chemical upcycling of waste polyolefins by heterogeneous catalysis. <i>SusMat</i> , 2022, 2, 161-185.	7.8	39
18	Low-Dimensional Networked Cesium Lead Halide Perovskites: Properties, Fabrication, and Applications. <i>Small Methods</i> , 2020, 4, 2000303.	4.6	38

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19	Enhancing the stability of CsPbBr ₃ nanocrystals by sequential surface adsorption of S ²⁻ and metal ions. <i>Chemical Communications</i> , 2018, 54, 9345-9348.	2.2	33
20	Critical role of metal ions in surface engineering toward brightly luminescent and stable cesium lead bromide perovskite quantum dots. <i>Nanoscale</i> , 2019, 11, 2602-2607.	2.8	33
21	CsPbBr ₃ Nanocrystal Light-Emitting Diodes with Efficiency up to 13.4% Achieved by Careful Surface Engineering and Device Engineering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3110-3118.	1.5	29
22	Suppressing thermal quenching of lead halide perovskite nanocrystals by constructing a wide-bandgap surface layer for achieving thermally stable white light-emitting diodes. <i>Chemical Science</i> , 2022, 13, 3719-3727.	3.7	25
23	High-efficiency perovskite nanocrystal light-emitting diodes <i>via</i> decorating NiO _x on the nanocrystal surface. <i>Nanoscale</i> , 2020, 12, 8711-8719.	2.8	23
24	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie</i> , 2021, 133, 7564-7577.	1.6	16
25	Synthesis of lead halide perovskite nanocrystals by melt crystallization in halide salts. <i>Chemical Communications</i> , 2020, 56, 11291-11294.	2.2	12
26	Surface Oxidation of Quantum Dots to Improve the Device Performance of Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28424-28430.	1.5	12
27	Sacrificial oxidation of a self-metal source for the rapid growth of metal oxides on quantum dots towards improving photostability. <i>Chemical Science</i> , 2019, 10, 6683-6688.	3.7	9
28	High-Efficiency Semitransparent Light-Emitting Diodes with Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19697-19703.	4.0	8
29	Suppressing Dehydroisomerization Boosts <i>n</i> -Butane Dehydrogenation with High Butadiene Selectivity. <i>Chemistry - A European Journal</i> , 2021, 27, 11643-11648.	1.7	4