Muhan Cao

List of Publications by Year
in descending order

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54	3,557	218677	161849
papers	citations	26 h-index	54 g-index

54	54	54	3771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Collective Plasmon Coupling in Gold Nanoparticle Clusters for Highly Efficient Photothermal Therapy. ACS Nano, 2022, 16, 910-920.	14.6	65
2	Interfacial Manganeseâ€Doping in CsPbBr₃ Nanoplatelets by Employing a Molecular Shuttle. Angewandte Chemie - International Edition, 2022, 61, .	13.8	25
3	Synergistic combination of Pd nanosheets and porous Bi(OH)3 boosts activity and durability for ethanol oxidation reaction. Nano Research, 2022, 15, 3920-3926.	10.4	28
4	Interfacial Manganeseâ€Doping in CsPbBr₃ Nanoplatelets by Employing a Molecular Shuttle. Angewandte Chemie, 2022, 134, .	2.0	2
5	Ultraâ€Stable CsPbX₃@Pyrophosphate Nanoparticles in Water over One Year. Small, 2022, 18, e2107548.	10.0	20
6	Efficient Interfacial Synthesis Strategy for Perovskite CsPbBr₃ Nanorods in the Biphase Solution. Advanced Materials Technologies, 2022, 7, .	5.8	5
7	Kineticsâ€Controlled Interfacial Synthesis of Janus and Patchy Heterostructures Based on Perovskite Nanocrystals. Advanced Optical Materials, 2022, 10, .	7.3	4
8	Fabricating MAPbI₃/MoS₂ Composites for Improved Photocatalytic Performance. Nano Letters, 2021, 21, 597-604.	9.1	60
9	Highly Stable CsPbX₃/PbSO₄ Core/Shell Nanocrystals Synthesized by a Simple Postâ€Treatment Strategy. Advanced Optical Materials, 2021, 9, 2001763.	7.3	30
10	Recent advances and perspective on heterogeneous catalysis using metals and oxide nanocrystals. Materials Chemistry Frontiers, 2021, 5, 151-222.	5.9	18
11	Improved photophysical properties and durability of CsPbBr₃ NCs endowed by inorganic oxoacid and bromide ions. Nanoscale, 2021, 13, 9634-9640.	5.6	3
12	Highly Stable CsPbBr₃ Colloidal Nanocrystal Clusters as Photocatalysts in Polar Solvents. ACS Applied Materials & Interfaces, 2021, 13, 4017-4025.	8.0	31
13	Reversible transformation of all-inorganic copper halide perovskite nanocrystals for anti-counterfeiting. Dalton Transactions, 2021, 50, 12826-12830.	3.3	14
14	Perovskite Nanocrystals: Synthesis, Stability, and Optoelectronic Applications. Small Structures, 2021, 2, 2000124.	12.0	53
15	Recent advances and perspective on the synthesis and photocatalytic application of metal halide perovskite nanocrystals. Nano Research, 2021, 14, 3773-3794.	10.4	27
16	Strong metalâ€“support interaction between palladium and gallium oxide within monodisperse nanoparticles: self-supported catalysts for propyne semi-hydrogenation. Journal of Catalysis, 2021, 395, 36-45.	6.2	21
17	Regulating the Interfacial Synergy of Ni/Ga₂O₃ for CO₂ Hydrogenation toward the Reverse Waterâ€“Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2021, 60, 9448-9455.	3.7	21
18	The Impact of Precursor Ratio on the Synthetic Production, Surface Chemistry, and Photovoltaic Performance of CsPbI₃ Perovskite Quantum Dots. Solar Rrl, 2021, 5, 2100090.	5.8	17

#	Article	IF	Citations
19	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
20	Stabilizing Oxygen Vacancies in ZrO₂ by Ga₂O₃ Boosts the Direct Dehydrogenation of Light Alkanes. ACS Catalysis, 2021, 11, 10159-10169.	11.2	9
21	Construction of Single-Atom Platinum Catalysts Enabled by CsPbBr₃ Nanocrystals. ACS Nano, 2021, 15, 13129-13139.	14.6	44
22	One-pot reprecipitation strategy to synthesize CsPbX₃/Pb₃(PO₄)₂ composite nanocrystals. Journal of Materials Chemistry C, 2021, 9, 466-471.	5.5	9
23	Regulation of surface carbides on palladium nanocubes with zeolitic imidazolate frameworks for propyne selective hydrogenation. Nano Research, 2021, 14, 1559-1564.	10.4	5
24	Encapsulation of lead halide perovskite nanocrystals (NCs) at the single-particle level: strategies and properties. Nanoscale, 2021, 13, 19341-19351.	5.6	13
25	Porous Pt nanoframes decorated with Bi(OH)3 as highly efficient and stable electrocatalyst for ethanol oxidation reaction. Nano Research, 2020, 13, 265-272.	10.4	45
26	Revealing the Correlation between Catalytic Selectivity and the Local Coordination Environment of Pt Single Atom. Nano Letters, 2020, 20, 6865-6872.	9.1	42
27	Interfacial engineering of noble metals for electrocatalytic methanol and ethanol oxidation. Journal of Materials Chemistry A, 2020, 8, 15445-15457.	10.3	103
28	Imaging the kinetics of anisotropic dissolution of bimetallic coreâ€“shell nanocubes using graphene liquid cells. Nature Communications, 2020, 11, 3041.	12.8	36
29	Facile one-step synthesis of PdPb nanochains for high-performance electrocatalytic ethanol oxidation. Rare Metals, 2020, 39, 792-799.	7.1	30
30	Hydrochromic CsPbBr₃ Nanocrystals for Antiâ€Counterfeiting. Angewandte Chemie - International Edition, 2020, 59, 14527-14532.	13.8	190
31	Hydrochromic CsPbBr₃ Nanocrystals for Antiâ€Counterfeiting. Angewandte Chemie, 2020, 132, 14635-14640.	2.0	18
32	Lowâ€Dimensionalâ€Networked Cesium Lead Halide Perovskites: Properties, Fabrication, and Applications. Small Methods, 2020, 4, 2000303.	8.6	38
33	Revealing the Active Sites of Pd Nanocrystals for Propyne Semihydrogenation: From Theory to Experiment. ACS Catalysis, 2019, 9, 8471-8480.	11.2	22
34	Photoreversible luminescence switching of CsPbI₃ nanocrystals sensitized by photochromic AgI nanocrystals. Nanoscale, 2019, 11, 3193-3199.	5.6	24
35	All-inorganic cesium lead halide perovskite nanocrystals: synthesis, surface engineering and applications. Journal of Materials Chemistry C, 2019, 7, 757-789.	5.5	193
36	Bi(OH)₃/PdBi Composite Nanochains as Highly Active and Durable Electrocatalysts for Ethanol Oxidation. Nano Letters, 2019, 19, 4752-4759.	9.1	99

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37	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
38	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
39	An etchingâ€“redeposition isomerization process for the shape control of anatase TiO2 nanocrystals. Materials Chemistry Frontiers, 2019, 3, 874-880.	5.9	3
40	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
41	Recent advances and perspectives on light emitting diodes fabricated from halide metal perovskite nanocrystals. Journal of Materials Chemistry C, 2019, 7, 14412-14440.	5.5	29
42	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
43	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
44	Intermetallic PtBi core/ultrathin Pt shell nanoplates for efficient and stable methanol and ethanol electro-oxidization. Nano Research, 2019, 12, 429-436.	10.4	76
45	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
46	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
47	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
48	Controlled growth of dodecapod-branched CsPbBr3 nanocrystals and their application in white light emitting diodes. Nano Energy, 2018, 53, 559-566.	16.0	45
49	Sintering-Resistant Pt on Ga₂O₃ Rods for Propane Dehydrogenation: The Morphology Matters. Industrial & Engineering Chemistry Research, 2018, 57, 13087-13093.	3.7	27
50	Colloidal Synthesis of Au@Pd Coreâ€“Shell Nanorods with Tunable Dimensions and Enhanced Electrocatalytic Activities. Topics in Catalysis, 2018, 61, 949-957.	2.8	3
51	One-Pot Synthesis of Highly Stable CsPbBr₃@SiO₂ Coreâ€“Shell Nanoparticles. ACS Nano, 2018, 12, 8579-8587.	14.6	447
52	Cooperative interactions among CTA+, Brâ€“ and Ag+ during seeded growth of gold nanorods. Nano Research, 2017, 10, 2146-2155.	10.4	25
53	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
54	The Synergy between Metal Facet and Oxide Support Facet for Enhanced Catalytic Performance: The Case of Pdâ€“TiO₂. Nano Letters, 2016, 16, 5298-5302.	9.1	69