

Nanocrystals of Cesium Lead Halide Perovskites (CsPbX₃) Novel Optoelectronic Materials Showing Bright Emission

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Citation Report

#	ARTICLE	IF	CITATIONS
87	Control of Emission Color of High Quantum Yield CH ₃ NH ₃ PbBr ₃ Perovskite Quantum Dots by Precipitation Temperature. <i>Advanced Science</i> , 2015, 2, 1500194.	5.6	536
88	Control of photoluminescence in Ca _{3-x} Y _{2-x} (PO ₄) ₂ :Eu ²⁺ phosphors by migration of the dopant. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 485-488.	1.2	3
89	Colloidal CsPbBr ₃ Perovskite Nanocrystals: Luminescence beyond Traditional Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15424-15428.	7.2	841
90	Stability of Metal Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500963.	10.2	1,045
92	Morphology-Controlled Synthesis of Organometal Halide Perovskite Inverse Opals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13806-13810.	7.2	68
93	Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX ₃). <i>Advanced Materials</i> , 2015, 27, 7162-7167.	11.1	2,457
94	All-Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. <i>Advanced Materials</i> , 2015, 27, 7101-7108.	11.1	1,095
96	Perovskite Quantum Dots Modeled Using ab Initio and Replica Exchange Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13965-13971.	1.5	28
97	Highly Luminescent Colloidal Nanoplates of Perovskite Cesium Lead Halide and Their Oriented Assemblies. <i>Journal of the American Chemical Society</i> , 2015, 137, 16008-16011.	6.6	1,004
98	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10276-10281.	6.6	1,765
99	Color tunable halide perovskite CH ₃ NH ₃ PbBr ₃ -Cl emission via annealing. <i>Organic Electronics</i> , 2015, 26, 260-264.	1.4	15
100	Fast Anion-Exchange in Highly Luminescent Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, I). <i>Nano Letters</i> , 2015, 15, 5635-5640.	4.5	1,938
101	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 9230-9233.	6.6	861
102	A sustainable future for photonic colloidal nanocrystals. <i>Chemical Society Reviews</i> , 2015, 44, 5897-5914.	18.7	115
103	Colloidal Organohalide Perovskite Nanoplatelets Exhibiting Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1911-1916.	2.1	358
104	Brightly Luminescent and Color-Tunable Colloidal CH ₃ NH ₃ PbX ₃ (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. <i>ACS Nano</i> , 2015, 9, 4533-4542.	7.3	2,001
105	Ultrafast Interfacial Electron and Hole Transfer from CsPbBr ₃ Perovskite Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 12792-12795.	6.6	459
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123	Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. Advanced Energy Materials, 2016, 6, 1502458.	10.2	1,265
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125	Mesoporous Silica Particles Integrated with All-Inorganic CsPbBr ₃ Perovskite Quantum-Dot Nanocomposites (MPQDs) with High Stability and Wide Color Gamut Used for Backlight Display. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7924-7929.	7.2	730
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154	Polarized emission from CsPbX ₃ perovskite quantum dots. <i>Nanoscale</i> , 2016, 8, 11565-11570.	2.8	125
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165	Phosphonic Acid Stabilized Colloidal CsPbX ₃ (X=Br, I) Perovskite Nanocrystals and Their Surface Chemistry. <i>ChemistrySelect</i> , 2016, 1, 3479-3482.	0.7	54
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1948	Solution-based green amplified spontaneous emission from colloidal perovskite nanocrystals exhibiting high stability. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	18
1949	Universal Oxide Shell Growth Enables in Situ Structural Studies of Perovskite Nanocrystals during the Anion Exchange Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 8254-8263.	6.6	92
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1951	Aqueous stable luminescent perovskite-polymer composites. <i>Applied Materials Today</i> , 2019, 15, 562-569.	2.3	13
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1955	A Visual Solar UV Sensor Based on Paraffin-Perovskite Quantum Dot Composite Film. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16713-16719.	4.0	18
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1959	Reducing Defects in Halide Perovskite Nanocrystals for Light-Emitting Applications. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2629-2640.	2.1	162
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2005	Bright Blue Light-Emitting Doped Cesium Bromide Nanocrystals: Alternatives of Lead-Free Perovskite Nanocrystals for White LEDs. <i>Advanced Optical Materials</i> , 2019, 7, 1900108.	3.6	31
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2012	Advances in lead-free double perovskite nanocrystals, engineering band-gaps and enhancing stability through composition tunability. <i>Nanoscale</i> , 2019, 11, 8665-8679.	2.8	119
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2071	Ligand-Exchange of Low-Temperature Synthesized CsPbBr ₃ Perovskite toward High-Efficiency Light-Emitting Diodes. Small Methods, 2019, 3, 1800489.	4.6	38
2072	Epitaxial Growth of CsPbX ₃ (X = Cl, Br, I) Perovskite Quantum Dots via Surface Chemical Conversion of Cs ₂ GeF ₆ Double Perovskites: A Novel Strategy for the Formation of Leadless Hybrid Perovskite Phosphors with Enhanced Stability. Advanced Materials, 2019, 31, e1807592.	11.1	81
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2081	Photophysical Action Spectra of Emission from Semiconductor Nanocrystals Reveal Violations to the Vavilov Rule Behavior from Hot Carrier Effects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5092-5098.	1.5	24
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3505	Synthesis of Lead-Free Cs ₂ AgBiX ₆ (X = Cl, Br, I) Double Perovskite Nanoplatelets and Their Application in CO ₂ Photocatalytic Reduction. <i>Nano Letters</i> , 2021, 21, 1620-1627.	4.5	140
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3513	CFD-Based Computational Studies of Quantum Dot Size Control in Slug Flow Crystallizers: Handling Slug-to-Slug Variation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4930-4941.	1.8	16
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3516	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. <i>Light: Science and Applications</i> , 2021, 10, 61.	7.7	235
3517	Precise Control of CsPbBr ₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. <i>Chemistry of Materials</i> , 2021, 33, 2387-2397.	3.2	40
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3924	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
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3927	Recent Advances and Challenges in Obtaining Stable CsPbX ₃ (X = Cl, Br, and I) Nanocrystals Toward White Light-Emitting Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 106001.	0.9	8
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4012	Phase evolution from CsPbBr ₃ :Cu to Cs ₄ PbBr ₆ :Cu quantum dots with stable blue emission. <i>Journal of Luminescence</i> , 2021, 240, 118413.	1.5	6
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4028	Stability improvement of photoluminescent QLEDs based on Mn-doped all-inorganic metal halide perovskite quantum dots with silica shell. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161505.	2.8	15
4029	Microfluidic fabrication of fluorescent nanomaterials: A review. <i>Chemical Engineering Journal</i> , 2021, 425, 131511.	6.6	33
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4038	A double perovskite participation for promoting stability and performance of Carbon-Based CsPbI ₂ Br perovskite solar cells. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 800-807.	5.0	16
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4041	Brightly luminescent (NH ₄) _x Cs _{1-x} PbBr ₃ quantum dots for in vitro imaging and efficient photothermal ablation therapy. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 500-512.	5.0	16
4042	Structural-property correlations of all-inorganic CsPbBr ₃ perovskites via synergetic controls by PbBr ₂ , 2-mercapto-3-methyl-4-thiazoleacetic acid and water. <i>Chemical Engineering Journal</i> , 2022, 428, 131117.	6.6	10
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4047	Thermal and photo stability of all inorganic lead halide perovskite nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17113-17128.	1.3	25
4048	Energy Transfer between Anthracene-9-carboxylic Acid Ligands and CsPbBr ₃ and CsPbI ₃ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1447-1453.	1.5	11
4049	97.3% Pb-Reduced CsPb _{1-x} Ge _x Br ₃ Perovskite with Enhanced Phase Stability and Photovoltaic Performance through Surface Cu Doping. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1098-1103.	2.1	18
4050	Heterogeneous post-passivation of inorganic cesium lead halide perovskite quantum dots for efficient electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3978-3986.	2.7	17
4051	Interfaces in metal halide perovskites probed by solid-state NMR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19206-19244.	5.2	28
4052	Tunable CsPb(Br/Cl) ₃ perovskite nanocrystals and further advancement in designing light emitting fiber membranes. <i>Materials Advances</i> , 2021, 2, 2700-2710.	2.6	19
4053	Photodetectors Based on Perovskite Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 75-117.	0.4	0
4054	Photoconductive Detectors Based on Perovskite Quantum Dots or Nanocrystals: From Lead-Based System to Lead-Free System. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 119-156.	0.4	0
4055	Recent progress of zero-dimensional luminescent metal halides. <i>Chemical Society Reviews</i> , 2021, 50, 2626-2662.	18.7	405
4056	Investigation of random lasing from all-inorganic halide perovskite quantum dots prepared under ambient conditions. <i>Nanoscale</i> , 2021, 13, 3246-3251.	2.8	14
4057	Stable down-conversion white light-emitting devices based on highly luminescent copper halides synthesized at room temperature. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	33
4058	Halide Ion Migration in Perovskite Nanocrystals and Nanostructures. <i>Accounts of Chemical Research</i> , 2021, 54, 520-531.	7.6	98
4059	Highly Stable and Spectrally Tunable Gamma Phase Rb _x Cs _{1-x} Pb ₃ Gradient Alloyed Quantum Dots in PMMA Matrix through A Sites Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2008211.	7.8	73
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4061	Progress in copper metal halides for optoelectronic applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4796-4820.	3.2	55
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4064	Stable bright perovskite nanoparticle thin porous films for color enhancement in modern liquid crystal displays. <i>Nanoscale</i> , 2021, 13, 6400-6409.	2.8	16
4065	Synthesis and optical properties of Cs ₄ PbBr ₆ perovskite nanocrystals by the water assisted solid-state reaction (WASSR) method. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2036-2041.	3.0	5
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4067	CsPbBr ₃ @TiO ₂ Core-shell Structure Nanocomposite as Water Stable and Efficient Visible-light-driven Photocatalyst. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 507.	0.6	5
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4375	Rapid and facile electrospray preparation of CsPbBr ₃ @PMMA fluorescent microspheres for fluorescent detection of ALP in biological samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127909.	2.3	9
4376	Metal halide perovskite quantum dots for amphiprotic bio-imaging. <i>Coordination Chemistry Reviews</i> , 2022, 452, 214313.	9.5	37
4377	On-wire axial perovskite heterostructures for monolithic dual-wavelength laser. <i>Nano Energy</i> , 2022, 92, 106778.	8.2	10
4378	Magnetic all-inorganic perovskite nanocrystals demonstrating well-defined hybrid structure and superhydrophobic behavior towards movable and stable photoluminescence. <i>Journal of Luminescence</i> , 2022, 243, 118629.	1.5	0
4379	Transparent tellurite glass-ceramics for photonics applications: A comprehensive review on crystalline phases and crystallization mechanisms. <i>Progress in Materials Science</i> , 2022, 125, 100890.	16.0	40
4380	Stable and multicolor solid-state luminescence of Mn doped CsPb(Cl/Br) ₃ perovskite quantum dots and its application in light-emitting diodes. <i>Journal of Luminescence</i> , 2022, 243, 118622.	1.5	14
4381	Intervalley polaronic biexcitons in metal halide perovskite quantum dots. <i>Physical Review B</i> , 2021, 104, .	1.1	15
4382	Room-temperature Direct Synthesis of Tetragonal CsPbI ₃ Nanocrystals. <i>Advanced Optical Materials</i> , 0, , 2101869.	3.6	4
4383	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. <i>Science Advances</i> , 2021, 7, eabj6627.	4.7	47
4384	Enhancing the Stability and Photoluminescence Quantum Yield of CsPbX ₃ (X = Cl and Br) Perovskite Nanocrystals by Treatment with Imidazolium-Based Ionic Liquids through Surface Modification. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26652-26660.	1.5	5
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4386	Colorimetric Sensing of Benzoyl Peroxide Based on the Emission Wavelength-Shift of CsPbBr ₃ Perovskite Nanocrystals. <i>Chemosensors</i> , 2021, 9, 319.	1.8	6
4387	Semitransparent visualizers of infrared lasers based on perovskite quantum dots. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012112.	0.3	0
4388	Tuning the Reactivity of Indium Alkanoates by Tertiary Organophosphines for the Synthesis of Indium-Based Quantum Dots. <i>Chemistry of Materials</i> , 2021, 33, 9348-9356.	3.2	10
4389	Mg ²⁺ -Assisted Passivation of Defects in CsPbI ₃ Perovskite Nanocrystals for High-Efficiency Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11090-11097.	2.1	12
4390	Lead-free Double Perovskite Cs ₂ AgIn _{0.9} Bi _{0.1} Cl ₆ Quantum Dots for White Light-Emitting Diodes. <i>Advanced Science</i> , 2022, 9, e2102895.	5.6	46
4391	Transformation of Quasi-2D Perovskite into 3D Perovskite Using Formamidine Acetate Additive for Efficient Blue Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, 2105164.	7.8	26

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4393	Ag@SiO ₂ -embedded InGaN/GaN nanorod array white light-emitting diode with perovskite nanocrystal films. Journal of Alloys and Compounds, 2022, 898, 162974.	2.8	7
4394	Magnetic Effect of Dopants on Bright and Dark Excitons in Strongly Confined Mn-Doped CsPb ₃ Quantum Dots. Nano Letters, 2021, 21, 9543-9550.	4.5	12
4395	Atomic resolution <i>in situ</i> observation on photon-induced reshaping and phase transitions of CsPbBr ₃ nanocube and quantum dot. Applied Physics Letters, 2021, 119, .	1.5	1
4396	Cs ₄ PbBr ₆ Cl Single Crystals with Tunable Emission for X-ray Detection and Imaging. Journal of Physical Chemistry C, 2021, 125, 26619-26626.	1.5	7
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4398	Colloidal Metal Halide Perovskite Nanoplatelets: Thickness-Controlled Synthesis, Properties, and Application in Light-Emitting Diodes. Advanced Materials, 2022, 34, e2107105.	11.1	124
4399	Mixed-Dimensional Heterostructure of CsPbBr ₃ Nanocrystal and Bi ₂ O ₂ Se Nanosheet. Journal of Physical Chemistry C, 2021, 125, 26951-26957.	1.5	6
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4411	Modulating optical properties and interfacial electron transfer of CsPbBr ₃ perovskite nanocrystals via indium ion and chlorine ion co-doping. <i>Journal of Chemical Physics</i> , 2021, 155, 234701.	1.2	3
4412	Blue light-emitting diodes based on halide perovskites: Recent advances and strategies. <i>Materials Today</i> , 2021, 51, 222-246.	8.3	64
4413	Vacuum-evaporated lead halide perovskite LEDs [Invited]. <i>Optical Materials Express</i> , 2022, 12, 256.	1.6	6
4414	Effects of Halogen Substitution on the Optoelectronic Properties of Two-Dimensional All-Inorganic Double Perovskite Cs_4Ag		

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4431	Probing the effect of a glass network on the synthesis and luminescence properties of composite perovskite glasses [Invited]. <i>Optical Materials Express</i> , 2022, 12, 823.	1.6	4
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4440	Hole transporting materials in inorganic CsPbI ₃ Br solar cells: Fundamentals, criteria and opportunities. <i>Materials Today</i> , 2022, 52, 250-268.	8.3	20
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4444	Stable Bismuth-Doped Lead Halide Perovskite Core-Shell Nanocrystals by Surface Segregation Effect. <i>Small</i> , 2022, 18, e2104399.	5.2	12
4445	Epitaxial Growth of Quasi-intrinsic CsPbBr ₃ Film on a SrTiO ₃ Substrate by Pulsed Laser Deposition. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5592-5600.	2.0	7
4446	Ultralow-cost portable device for cesium detection via perovskite fluorescence. <i>Journal of Hazardous Materials</i> , 2022, 425, 127981.	6.5	14
4447	The hybrid halide perovskite: Synthesis strategies, fabrications, and modern applications. <i>Ceramics International</i> , 2022, 48, 7325-7343.	2.3	17
4448	Subwavelength-scale lasing perovskite with ultrahigh Purcell enhancement. <i>Matter</i> , 2021, 4, 4042-4050.	5.0	13

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4450	The Temperature Dependence of the Photoluminescence of CsPbBr ₃ Nanocrystals Reveals Phase Transitions and Homogeneous Linewidths. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27504-27508.	1.5	14
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4452	Enhanced Photoluminescence of Cesium Lead Halide Perovskites by Quasi-3D Photonic Crystals. <i>Advanced Optical Materials</i> , 2022, 10, 2101324.	3.6	10
4453	2D/2D BiVO ₄ /CsPbBr ₃ S-scheme heterojunction for photocatalytic CO ₂ reduction: Insights into structure regulation and Fermi level modulation. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120979.	10.8	163
4454	Generation of Amplified Spontaneous Emission in Lead Halide Perovskite Semiconductors. , 2021, , 1-40.		0
4455	Gateway towards recent developments in quantum dot-based light-emitting diodes. <i>Nanoscale</i> , 2022, 14, 4042-4064.	2.8	14
4456	Halide Perovskites for Photonics: Recent History and Perspectives. , 2021, , 1-28.		1
4457	Modeling Methods for Plasmonic Effects in Halide Perovskite Based Systems for Photonics Applications. , 2021, , 1-52.		0
4458	Morphologically stable and controlled shape of CsPbBr ₃ perovskite nanoparticle synthesized at room temperature with curing time. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
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4462	Suppression of halide migration and immobile ionic surface passivation for blue perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2060-2066.	2.7	12
4463	A review on sustainable synthetic approaches toward photoluminescent quantum dots. <i>Green Chemistry</i> , 2022, 24, 675-700.	4.6	26
4464	Control of Hot Carrier Relaxation in CsPbBr ₃ Nanocrystals Using Damping Ligands. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
4465	Visible-light excited polar Dion-Jacobson Rb(Bi _{1-x} Eu _x) ₂ Ti ₂ NbO ₁₀ perovskite: Photoluminescence properties and in-vitro bioimaging. <i>Journal of Materials Chemistry B</i> , 2022, , .	2.9	16
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4469	Control of Hot Carrier Relaxation in CsPbBr ₃ Nanocrystals Using Damping Ligands. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
4470	Synthesis and characterization of polypyrrole encapsulated formamidinium lead bromide crystals for fluorescence memory recovery. <i>Journal of Molecular Liquids</i> , 2022, 349, 118485.	2.3	9
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4472	Facile exfoliation of MoS ₂ powders into nanosheets with excellent fluorescence quenching performance of perovskite. <i>Optik</i> , 2022, 251, 168480.	1.4	2
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4474	Atomic structure of PbBr ₂ thin films on Ag (111). <i>Solid State Communications</i> , 2022, 343, 114651.	0.9	1
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4478	NIR triggered NaYF ₄ :Yb ³⁺ ,Tm ³⁺ @NaYF ₄ /CsPb(Br _{1-x} I _x) ₃ composite for up-converted white-light emission and dual-modal anti-counterfeiting applications. <i>Materials Today Chemistry</i> , 2022, 23, 100752.	1.7	14
4479	Inverse opal photonic crystal stabilized CsPbX ₃ perovskite quantum dots and their application in white LED. <i>Chemical Engineering Journal</i> , 2022, 432, 134409.	6.6	20
4480	Tetraoctylammonium bromide-passivated CsPbI ₃ -xBr _x perovskite nanoparticles with improved stability for efficient red light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163182.	2.8	12
4481	Magnetic polaronic and bipolaronic excitons in Mn(II) doped (TDMP)PbBr ₄ and their high emission. <i>Nano Energy</i> , 2022, 93, 106863.	8.2	25
4482	Robust dual cationic ligand for stable and efficient warm-white light emission in lead-free double perovskite nanocrystals. <i>Applied Materials Today</i> , 2022, 26, 101288.	2.3	4
4483	Stable white emission and color-tunable electroluminescence achieved from n-ZnO/p-GaN nano-heterojunction decorated with CsPbBr ₃ and CsPbI ₃ quantum dots. <i>Journal of Luminescence</i> , 2022, 244, 118691.	1.5	5
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4486	Enhanced charge balance with antibiotics in both electron and hole transport layers of InP/ZnSexS1â€”x/ZnS-based quantum dot light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163449.	2.8	6
4487	Extracting ammonium halides by solvent from the hybrid perovskites with various dimensions to promote the crystallization of CsPbI ₃ perovskite. <i>Nano Energy</i> , 2022, 94, 106925.	8.2	35
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4493	Colloidal Quantum Dot Solar Cells: Progressive Deposition Techniques and Future Prospects on Large-Area Fabrication. <i>Advanced Materials</i> , 2022, 34, e2107888.	11.1	39
4494	Structural Dynamics of Metal Halide Perovskites during Photoinduced Halide Segregation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4335-4343.	4.0	13
4495	Perovskite Quantum Dots in Solar Cells. <i>Advanced Science</i> , 2022, 9, e2104577.	5.6	49
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4503	Recent Research Trends for Improving the Stability of Organo/Inorgano Halide Perovskites. <i>Journal of Korean Institute of Metals and Materials</i> , 2022, 60, 1-13.	0.4	8

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4527	Anion Exchange in Lead Halide Perovskites: An Overview. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	12
4528	Interfacial Manganeseâ€“Doping in CsPbBr ₃ Nanoplatelets by Employing a Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
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5410	Reduced Self-Absorption of Quasi-2D Perovskites and Their Application in Color Conversion Layers. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	3
5411	Recent progress and future prospects on halide perovskite nanocrystals for optoelectronics and beyond. <i>IScience</i> , 2022, 25, 105371.	1.9	10
5412	Room-temperature lasing from cesium lead halide perovskite heterostructures induced by phase segregation. <i>Journal of Luminescence</i> , 2022, 252, 119442.	1.5	1
5413	One-step synthesis of multi-colored ZnO nanoparticles for white light-emitting diodes. <i>Journal of Luminescence</i> , 2022, 252, 119425.	1.5	3
5414	CsPbBr ₃ quantum dots-decorated porous covalent triazine frameworks nanocomposites for enhanced solar-driven H ₂ O ₂ production. <i>Composites Communications</i> , 2022, 36, 101390.	3.3	34
5415	Lanthanide-doped luminescent perovskites: A review of synthesis, properties, and applications. <i>Journal of Luminescence</i> , 2022, 252, 119406.	1.5	13
5416	The ammonia detection of cesium lead halide perovskite quantum dots in different halogen ratios at room temperature. <i>Optical Materials</i> , 2022, 134, 113155.	1.7	5
5417	Polymer-encapsulated UV-curable stacked prismatic layers of all-halide phosphor composites for white luminescence. <i>Materials and Design</i> , 2022, 224, 111307.	3.3	2
5418	The efficient green light-emitting diodes based on low-toxicity Zr-Pb alloy perovskite quantum dots passivated by inorganic ligand. <i>Applied Materials Today</i> , 2022, 29, 101658.	2.3	4
5419	Efficiently boosting the optical performances of laminated luminescent solar concentrators via combing blue-white light-emitting carbon dots and green/red emitting perovskite quantum dots. <i>Applied Surface Science</i> , 2023, 609, 155313.	3.1	6
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5421	Interfacial energy-level alignment via poly-3-hexylthiophene-CsPbI ₃ quantum dots hybrid hole conductor for efficient carbon-based CsPbI ₂ Br solar cells. <i>Chemical Engineering Journal</i> , 2023, 453, 139842.	6.6	16
5422	In-situ reacted multiple-anchoring ligands to produce highly photo-thermal resistant CsPbI ₃ quantum dots for display backlights. <i>Chemical Engineering Journal</i> , 2023, 454, 140038.	6.6	6
5423	Coherent Carrier Dynamics of Lead-Halide Perovskite Nanocrystals using Multidimensional Coherent Spectroscopy. , 2022, , .		0
5424	Inverse size-dependent Stokes shift in strongly quantum confined CsPbBr ₃ perovskite nanoplates. <i>Nanoscale</i> , 2022, 14, 17262-17270.	2.8	3
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5426	Transition metal(II) ion doping of CsPb ₂ Br ₅ /CsPbBr ₃ perovskite nanocrystals enables high luminescence efficiency and stability. <i>Journal of Materials Chemistry C</i> , 2022, 10, 18336-18342.	2.7	5

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5428	Strategies for the preparation of high-performance inorganic mixed-halide perovskite solar cells. <i>RSC Advances</i> , 2022, 12, 32925-32948.	1.7	11
5429	Third-Order Nonlinear Optical Properties of Perovskite Quantum Dots. , 2022, , .		0
5430	Deep-red and near-infrared light-emitting electrochemical cells employing perovskite color conversion layers with EQE >10%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 18137-18146.	2.7	9
5431	Recent advances in perovskites-based optoelectronics. <i>Nanotechnology Reviews</i> , 2022, 11, 3063-3094.	2.6	2
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5433	Phase Rearrangement for Minimal Exciton Loss in Quasi-2D Perovskite toward Efficient Deep-Blue LEDs via Halide Post-treatment. <i>Journal of Materials Chemistry C</i> , 2022, 10, .	2.7	1
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5440	Precision Synthesis and Atomistic Analysis of Deep-Blue Cubic Quantum Dots Made via Self-Organization. <i>Journal of the American Chemical Society</i> , 2022, 144, 21146-21156.	6.6	3
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5446	Recent Progress of Bismuth Effect on All-Inorganic Lead-Free Metal Halide Derivatives: Crystals Structure, Luminescence Properties, and Applications. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	20
5447	Bandlike Transport in FAPbBr_3 Quantum Dot Phototransistor with High Hole Mobility and Ultrahigh Photodetectivity. <i>Nano Letters</i> , 2022, 22, 9020-9026.	4.5	8
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5449	Printable assemblies of perovskite nanocubes on meter-scale panel. <i>Science Advances</i> , 2022, 8, .	4.7	9
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5452	Synthesis and Properties of Stable Amino Metal Halide Molecular Clusters in the Solid State. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 10543-10549.	2.1	5
5453	The Dissociation of Exciton During the Lasing of a Single CsPbBr_3 Microplate. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 10851-10857.	2.1	2
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5456	Lead-Free Perovskite Nanoflake/Monoradicular CdSe Nanobelt Hybrid Nanostructures for Ultrasensitive Broadband Photodetectors. <i>ACS Applied Nano Materials</i> , 2022, 5, 16923-16932.	2.4	2
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5467	Photo-processing of perovskites: current research status and challenges. , 2022, 1, 220014-220014.		8
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5469	Temperature driven charge transfer process in quantum confined two-dimensional Mn-doped CsPbBr ₃ perovskite nanoplatelets. <i>Chemical Communications</i> , 2022, 58, 13899-13902.	2.2	1
5470	Atomically flat semiconductor nanoplatelets for light-emitting applications. <i>Chemical Society Reviews</i> , 2023, 52, 318-360.	18.7	16
5471	A residual strain regulation strategy based on quantum dots for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2023, 11, 868-877.	5.2	2
5472	A-site FA ⁺ engineering boosting photoluminescence efficiency and stability of cesium copper iodine (Cs ₃ Cu ₂ I ₅) perovskites. <i>Journal of Materials Chemistry C</i> , 2023, 11, 1076-1081.	2.7	5
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5477	Enhancing the stability of the polymeric Lewis-base-assisted dual-phase 3D CsPbBr ₃ Cs ₄ PbBr ₆ perovskite by molecular engineering and self-passivation. <i>Journal of Materials Chemistry C</i> , 2022, 11, 307-320.	2.7	2
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5486	Universal surface tailoring of perovskite nanocrystals <i>via</i> organic pseudohalide ligands applicable to green and blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 18226-18233.	2.7	0
5487	Ultra-small $\hat{\pm}$ -CsPbI ₃ perovskite quantum dots with stable, bright and pure red emission for Rec. 2020 display backlights. <i>Nanoscale</i> , 2023, 15, 1661-1668.	2.8	6
5488	Structures, photoluminescence, and principles of self-activated phosphors. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 1565-1587.	1.3	5
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5496	Investigation of Two Photon Absorption of Ligand-Modified CsPbBr ₃ Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11245-11252.	2.1	2
5497	Perovskite Random Lasers, Process and Prospects. <i>Micromachines</i> , 2022, 13, 2040.	1.4	4
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5503	The Electronic Disorder Landscape of Mixed Halide Perovskites. <i>ACS Energy Letters</i> , 2023, 8, 250-258.	8.8	10
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5506	Targeted Design of Surface Configuration on CsPbI ₃ Perovskite Nanocrystals for High-Efficiency Photovoltaics. <i>ACS Energy Letters</i> , 2023, 8, 241-249.	8.8	4
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5513	Extreme γ -ray radiation hardness and high scintillation yield in perovskite nanocrystals. <i>Nature Photonics</i> , 2022, 16, 860-868.	15.6	42
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5520	Anion Exchange Reaction of CsPbBr ₃ Perovskite Nanocrystals: Affinity of Halide Ion Matters. <i>ChemistrySelect</i> , 2022, 7, .	0.7	4
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5527	Multi-color UCNPs/CsPb(Br _{1-x} I _x) ₃ for upconversion luminescence and dual-modal anticounterfeiting. <i>Optics Express</i> , 2023, 31, 2956.	1.7	5
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5536	Combinatorial Vacuum Deposition of Wide Bandgap Perovskite Films and Solar Cells. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	4
5537	Time-Dependent Polychrome Stereoscopic Luminescence Triggered by Resonance Energy Transfer between Carbon Dots in Zeolite Composites and Fluorescence Quantum Dots. <i>Advanced Materials</i> , 2023, 35, .	11.1	18
5538	Molecular engineering enables bright blue LEDs. <i>Nature</i> , 2022, 612, 638-639.	13.7	1
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5540	Near-Infrared LEDs Based on Quantum Cutting-Activated Electroluminescence of Ytterbium Ions. <i>Nano Letters</i> , 2023, 23, 82-90.	4.5	9
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5547	Perovskite single crystals: Dimensional control, optoelectronic properties, and applications. <i>Materials Today</i> , 2023, 62, 225-250.	8.3	17
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5643	An electrochemiluminescence sensor based on hydrophilic CsPbBr ₃ /TDPA nanocrystals for sensitive detection of nitrobenzene. <i>Sensors & Diagnostics</i> , 0, , .	1.9	0
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5710	In situ growth of CsPbBr ₃ @PS flexible fiber papers by one step electrospinning with high stability toward fluorescent sensor. <i>Journal of Luminescence</i> , 2023, 259, 119832.	1.5	3
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5795	Ultrafast One-Step Deposition Route to Fabricate Single-Crystal CsPbX ₃ (X = Cl, Cl/Br, Br.) Tj ETQq1 1 0,784314 rgBT /Over	4.0	4
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