

CsPbX₃ Quantum Dots for Lighting and Diodes Photoluminescence Superiorities, Underlying Origins and

Advanced Functional Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Organometal halide perovskite quantum dots: synthesis, optical properties, and display applications. Chinese Chemical Letters, 2016, 27, 1124-1130.	4.8	65
2	Healing All-Inorganic Perovskite Films via Recyclable Dissolution-Recrystallization for Compact and Smooth Carrier Channels of Optoelectronic Devices with High Stability. Advanced Functional Materials, 2016, 26, 5903-5912.	7.8	296
3	Improving the Stability and Performance of Perovskite Light-Emitting Diodes by Thermal Annealing Treatment. Advanced Materials, 2016, 28, 6906-6913.	11.1	111
4	A study on the application of quantum dots film in COB. , 2016, , .		0
5	Quantum Dots-Converted Light-Emitting Diodes Packaging for Lighting and Display: Status and Perspectives. Journal of Electronic Packaging, Transactions of the ASME, 2016, 138, .	1.2	144
6	Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. Chemistry of Materials, 2016, 28, 2902-2906.	3.2	152
7	Polarized emission from CsPbX ₃ perovskite quantum dots. Nanoscale, 2016, 8, 11565-11570.	2.8	125
8	Room-temperature and gram-scale synthesis of CsPbX ₃ (X = Cl, Br, I) perovskite nanocrystals with 50-85% photoluminescence quantum yields. Chemical Communications, 2016, 52, 7265-7268.	2.2	330
9	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. Journal of the American Chemical Society, 2016, 138, 14202-14205.	6.6	385
10	Efficient and Stable White LEDs with Silica-Coated Inorganic Perovskite Quantum Dots. Advanced Materials, 2016, 28, 10088-10094.	11.1	765
11	Magnetic Manipulation of Spontaneous Emission from Inorganic CsPbBr ₃ Perovskites Nanocrystals. Advanced Optical Materials, 2016, 4, 2004-2008.	3.6	14
12	Photo-stability of CsPbBr ₃ perovskite quantum dots for optoelectronic application. Science China Materials, 2016, 59, 719-727.	3.5	201
13	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. Angewandte Chemie - International Edition, 2016, 55, 13887-13892.	7.2	615
14	Metal halide perovskite light emitters. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11694-11702.	3.3	465
15	Synthesis, properties, and optical applications of low-dimensional perovskites. Chemical Communications, 2016, 52, 13637-13655.	2.2	252
16	Photon Driven Transformation of Cesium Lead Halide Perovskites from Few-Monolayer Nanoplatelets to Bulk Phase. Advanced Materials, 2016, 28, 10637-10643.	11.1	130
17	Shape-Controlled Synthesis of All-Inorganic CsPbBr ₃ Perovskite Nanocrystals with Bright Blue Emission. ACS Applied Materials & Interfaces, 2016, 8, 28824-28830.	4.0	271
18	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenid-Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. Angewandte Chemie, 2016, 128, 14091-14096.	1.6	54

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19	Improved performance of perovskite light-emitting diodes using a PEDOT:PSS and MoO ₃ composite layer. Journal of Materials Chemistry C, 2016, 4, 8161-8165.	2.7	75
20	Shape and phase evolution from CsPbBr ₃ perovskite nanocubes to tetragonal CsPb ₂ Br ₅ nanosheets with an indirect bandgap. Chemical Communications, 2016, 52, 11296-11299.	2.2	210
21	Efficient Biexciton Interaction in Perovskite Quantum Dots Under Weak and Strong Confinement. ACS Nano, 2016, 10, 8603-8609.	7.3	190
22	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. Nanoscale, 2016, 8, 18021-18026.	2.8	160
23	Inorganic red perovskite quantum dot integrated blue chip: a promising candidate for high color-rendering in w-LEDs. RSC Advances, 2016, 6, 79410-79414.	1.7	26
24	Low-Temperature Solution-Grown CsPbBr ₃ Single Crystals and Their Characterization. Crystal Growth and Design, 2016, 16, 5717-5725.	1.4	329
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26	Enhanced Optical and Electrical Properties of Polymer-Assisted All-Inorganic Perovskites for Light-Emitting Diodes. Advanced Materials, 2016, 28, 8983-8989.	11.1	326
27	A Facile Methodology for Engineering the Morphology of CsPbX ₃ Perovskite Nanocrystals under Ambient Condition. Scientific Reports, 2016, 6, 37693.	1.6	126
28	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX ₃ Perovskite Nanocrystals. Chemistry of Materials, 2016, 28, 9033-9040.	3.2	182
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30	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. Nano Today, 2016, 11, 565-586.	6.2	563
31	Tuning optical properties of perovskite nanocrystals by supermolecular mercapto- β -cyclodextrin. Chemical Communications, 2016, 52, 12342-12345.	2.2	27
32	Versatile Application of Fluorescent Quantum Dot Labels in Super-resolution Fluorescence Microscopy. ACS Photonics, 2016, 3, 1611-1618.	3.2	52
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35	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. NPG Asia Materials, 2016, 8, e328-e328.	3.8	385
36	Theoretical perspective of energy harvesting properties of atomically thin BiI ₃ . Journal of Materials Chemistry A, 2016, 4, 19086-19094.	5.2	47

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38	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. Journal of Physical Chemistry Letters, 2016, 7, 4398-4404.	2.1	105
39	Large-scale room-temperature synthesis and optical properties of perovskite-related Cs ₄ PbBr ₆ fluorophores. Journal of Materials Chemistry C, 2016, 4, 10646-10653.	2.7	183
40	Highly luminescent InP/GaP/ZnS QDs emitting in the entire color range via a heating up process. Scientific Reports, 2016, 6, 30094.	1.6	97
41	Lead-Free, Blue Emitting Bismuth Halide Perovskite Quantum Dots. Angewandte Chemie - International Edition, 2016, 55, 15012-15016.	7.2	426
42	Lead-Free, Blue Emitting Bismuth Halide Perovskite Quantum Dots. Angewandte Chemie, 2016, 128, 15236-15240.	1.6	48
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46	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. Advanced Functional Materials, 2016, 26, 8757-8763.	7.8	344
47	Robust and Stable Narrow-Band Green Emitter: An Option for Advanced Wide-Color-Gamut Backlight Display. Chemistry of Materials, 2016, 28, 8493-8497.	3.2	164
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51	Study of Perovskite QD Down-Converted LEDs and Six-Color White LEDs for Future Displays with Excellent Color Performance. ACS Applied Materials & Interfaces, 2016, 8, 18189-18200.	4.0	159
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61	White-light emissive materials based on dynamic polymerization in supramolecular chemistry. <i>Polymer</i> , 2017, 128, 257-275.	1.8	32
62	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1605088.	7.8	242
63	Homogeneous Synthesis and Electroluminescence Device of Highly Luminescent CsPbBr ₃ Perovskite Nanocrystals. <i>Inorganic Chemistry</i> , 2017, 56, 2596-2601.	1.9	55
64	Tuning the Competitive Recombination of Free Carriers and Bound Excitons in Perovskite CH ₃ NH ₃ PbBr ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6916-6923.	1.5	18
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66	Zero-Dimensional Cs ₄ PbBr ₆ Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 961-965.	2.1	299
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68	A highly efficient white-light-emitting diode based on a two-component polyfluorene/quantum dot composite. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017, 122, 12-15.	0.2	6
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70	Solvent-free, mechanochemical syntheses of bulk trihalide perovskites and their nanoparticles. <i>Chemical Communications</i> , 2017, 53, 3046-3049.	2.2	118
71	Photoluminescence and self-assembly of cesium lead halide perovskite nanocrystals: Effects of chain length of organic amines and reaction temperature. <i>Applied Surface Science</i> , 2017, 405, 280-288.	3.1	38
72	High-Brightness Blue and White LEDs based on Inorganic Perovskite Nanocrystals and their Composites. <i>Advanced Materials</i> , 2017, 29, 1606859.	11.1	237
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81	Improved Performance and Stability of All-Inorganic Perovskite Light-Emitting Diodes by Antisolvent Vapor Treatment. Advanced Functional Materials, 2017, 27, 1700338.	7.8	221
82	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. Small, 2017, 13, 1700364.	5.2	119
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104	Top-Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie, 2017, 129, 9699-9704.	1.6	31
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108	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. Chemistry of Materials, 2017, 29, 4167-4171.	3.2	142
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110	Highly Efficient Perovskite Light-Emitting Diodes Incorporating Full Film Coverage and Bipolar Charge Injection. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1810-1818.	2.1	97
111	Brightly Luminescent and Color-Tunable Formamidinium Lead Halide Perovskite FAPbX_3 ($X = \text{Cl, Br, I}$) Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1819-1824.	4.5	356
112	Enhanced optoelectronic quality of perovskite films with excess $\text{CH}_3\text{NH}_3\text{I}$ for high-efficiency solar cells in ambient air. <i>Nanotechnology</i> , 2017, 28, 205401.	1.3	18
113	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX_3 Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017, 29, 1700400.	11.1	129
114	High-Temperature Photoluminescence of CsPbX_3 ($X = \text{Cl, Br, I}$) Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1606750.	7.8	242
115	Dynamics of Charged Excitons and Biexcitons in CsPbBr_3 Perovskite Nanocrystals Revealed by Femtosecond Transient-Absorption and Single-Dot Luminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1413-1418.	2.1	149
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119	Solution-processed approach to highly luminescent trigonal Cs_4PbBr_6 nanodisks and their underlying shape evolution. <i>Journal of Alloys and Compounds</i> , 2017, 710, 244-252.	2.8	15
120	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. <i>ACS Nano</i> , 2017, 11, 1189-1195.	7.3	245
121	Effect of the solvent used for fabrication of perovskite films by solvent dropping on performance of perovskite light-emitting diodes. <i>Nanoscale</i> , 2017, 9, 2088-2094.	2.8	61
122	High-Efficiency and Air-Stable Perovskite Quantum Dots Light-Emitting Diodes with an All-Inorganic Heterostructure. <i>Nano Letters</i> , 2017, 17, 313-321.	4.5	402
123	Full-spectra hyperfluorescence cesium lead halide perovskite nanocrystals obtained by efficient halogen anion exchange using zinc halogenide salts. <i>CrystEngComm</i> , 2017, 19, 1165-1171.	1.3	42
124	Investigation of Energy Levels and Crystal Structures of Cesium Lead Halides and Their Application in Full-Color Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2017, 3, 1600448.	2.6	67
125	Metal halide perovskite nanomaterials: synthesis and applications. <i>Chemical Science</i> , 2017, 8, 2522-2536.	3.7	233
126	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , 2017, 29, 8978-8982.	3.2	174
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129	X-ray radioluminescence effect of all-inorganic halide perovskite CsPbBr_3 quantum dots. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 2327-2337.	0.7	45
130	30-Fold efficiency enhancement achieved in the perovskite light-emitting diodes. <i>RSC Advances</i> , 2017, 7, 50571-50577.	1.7	7
131	Manganese-Doped One-Dimensional Organic Lead Bromide Perovskites with Bright White Emissions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40446-40451.	4.0	101
132	Efficient white LEDs with bright green-emitting CsPbBr_3 perovskite nanocrystal in mesoporous silica nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 729, 526-532.	2.8	66
133	Energy transfer assisted solvent effects on CsPbBr_3 quantum dots. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11076-11082.	2.7	31
134	Pure zero-dimensional Cs_4PbBr_6 single crystal rhombohedral microdisks with high luminescence and stability. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29092-29098.	1.3	86
135	Silica-Coated Mn-Doped $\text{CsPb}(\text{Cl}/\text{Br})_3$ Inorganic Perovskite Quantum Dots: Exciton-to-Mn Energy Transfer and Blue-Excitable Solid-State Lighting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40477-40487.	4.0	140
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137	Facile Two-Step Synthesis of All-Inorganic Perovskite CsPbX_3 ($X = \text{Cl}, \text{Br}, \text{and I}$) Zeolite- γ Composite Phosphors for Potential Backlight Display Application. <i>Advanced Functional Materials</i> , 2017, 27, 1704371.	7.8	223
138	Air-stable and water-resistant all-inorganic perovskite quantum dot films for white-light-emitting applications. <i>New Journal of Chemistry</i> , 2017, 41, 13961-13967.	1.4	54
139	White Light-Emitting Diodes Based on Individual Polymerized Carbon Nanodots. <i>Scientific Reports</i> , 2017, 7, 12146.	1.6	40
140	High Performance Metal Halide Perovskite Light-Emitting Diode: From Material Design to Device Optimization. <i>Small</i> , 2017, 13, 1701770.	5.2	209
141	High-Performance Inorganic Perovskite Quantum Dot-Organic Semiconductor Hybrid Phototransistors. <i>Advanced Materials</i> , 2017, 29, 1704062.	11.1	137
142	Single component Mn-doped perovskite-related $\text{CsPb}_2\text{Cl}_x\text{Br}_{5-x}$ nanoplatelets with a record white light quantum yield of 49%: a new single layer color conversion material for light-emitting diodes. <i>Nanoscale</i> , 2017, 9, 16858-16863.	2.8	56
143	Improving the Stability and Size Tunability of Cesium Lead Halide Perovskite Nanocrystals Using Trioctylphosphine Oxide as the Capping Ligand. <i>Langmuir</i> , 2017, 33, 12689-12696.	1.6	165
144	Growth mechanism of strongly emitting $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite nanocrystals with a tunable bandgap. <i>Nature Communications</i> , 2017, 8, 996.	5.8	210
145	Recent progress of metal halide perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11369-11394.	2.7	138

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