

# Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis, and Optical Properties

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Uncovering the microscopic mechanism of incorporating Mn <sup>2+</sup> ions into CsPbCl <sub>3</sub> crystal lattice. Journal of Materials Chemistry C, 2019, 7, 11177-11183.	2.7	11
2	Role of Capped Oleyl Amine in the Moisture-Induced Structural Transformation of CsPbBr <sub>3</sub> Perovskite Nanocrystals. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900387.	1.2	31
3	<i>In situ</i> preparation of a CsPbBr <sub>3</sub> /black phosphorus heterostructure with an optimized interface and photodetector application. Nanoscale, 2019, 11, 16852-16859.	2.8	55
4	Emissive Bi-Doped Double Perovskite Cs <sub>2</sub> Ag <sub>1-x</sub> Na <sub>x</sub> InCl <sub>6</sub> Nanocrystals. ACS Energy Letters, 2019, 4, 1976-1982.	8.8	198
5	Wide-Angle X-ray Diffraction Evidence of Structural Coherence in CsPbBr <sub>3</sub> Nanocrystal Superlattices. , 2019, 1, 272-276.		45
6	Enhanced the stability of Cesium lead bromide perovskite nanocrystals. Journal of Luminescence, 2019, 215, 116593.	1.5	6
7	Perovskite nanocrystals for energy conversion and storage. Nanophotonics, 2019, 8, 1607-1640.	2.9	78
8	Highly Conductive Copper Selenide Nanocrystal Thin Films for Advanced Electronics. ACS Applied Electronic Materials, 2019, 1, 1560-1569.	2.0	19
9	Monochromatic LEDs based on perovskite quantum dots: Opportunities and challenges. Journal of the Society for Information Display, 2019, 27, 667-678.	0.8	7
10	Synthesis of Polycrystalline Ruddlesden-Popper Organic Lead Halides and Their Growth Dynamics. Chemistry of Materials, 2019, 31, 9472-9479.	3.2	18
11	Heavy-Metal-Free Flexible Hybrid Polymer-Nanocrystal Photodetectors Sensitive to 1.5 $\mu$ m Wavelength. ACS Applied Materials & Interfaces, 2019, 11, 42571-42579.	4.0	12
12	Spectrally Tunable and Stable Electroluminescence Enabled by Rubidium Doping of CsPbBr <sub>3</sub> Nanocrystals. Advanced Optical Materials, 2019, 7, 1901440.	3.6	51
13	Controlled Growth of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Nanocrystals via a Water-Oil Interfacial Synthesis Method. Angewandte Chemie, 2019, 131, 17795-17799.	1.6	8
14	Mechanochromic and Electroluminescence Properties of a Layered Hybrid Perovskite Belonging to the <110> Series. European Journal of Inorganic Chemistry, 2019, 2019, 4527-4531.	1.0	15
15	Direct Synthesis of Quaternary Alkylammonium-Capped Perovskite Nanocrystals for Efficient Blue and Green Light-Emitting Diodes. ACS Energy Letters, 2019, 4, 2703-2711.	8.8	161
16	Alkyl Phosphonic Acids Deliver CsPbBr <sub>3</sub> Nanocrystals with High Photoluminescence Quantum Yield and Truncated Octahedron Shape. Chemistry of Materials, 2019, 31, 9140-9147.	3.2	125
17	Surface Ligands Stabilized Lead Halide Perovskite Quantum Dot Photocatalyst for Visible Light-Driven Hydrogen Generation. Advanced Functional Materials, 2019, 29, 1905683.	7.8	85
18	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. Angewandte Chemie, 2019, 131, 16223-16227.	1.6	16

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19	Hybrid Halide Perovskites: Discussions on Terminology and Materials. <i>Angewandte Chemie</i> , 2019, 131, 18078-18083.	1.6	17
20	Hybrid Halide Perovskites: Discussions on Terminology and Materials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17912-17917.	7.2	56
21	Polar Organic Solvent-Tolerant Perovskite Nanocrystals Permanently Ligated with Polymer Hairs via Star-like Molecular Bottlebrush Trilobe Nanoreactors. <i>Nano Letters</i> , 2019, 19, 9019-9028.	4.5	70
22	A perspective on the bright future of metal halide perovskites for X-ray detection. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	45
23	Advances in the Stability of Halide Perovskite Nanocrystals. <i>Materials</i> , 2019, 12, 3733.	1.3	33
24	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	7.2	49
25	Controlled Growth of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Nanocrystals via a Water/Oil Interfacial Synthesis Method. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17631-17635.	7.2	10
26	Coupled Halide-deficient and Halide-rich Reaction System for Doping in Perovskite Armed Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6788-6793.	2.1	10
27	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
28	Stable Perovskite Quantum Dots Coated with Superhydrophobic Organosilica Shells for White Light-Emitting Diodes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3830-3834.	1.7	9
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38	VLS Homoepitaxy of Lead Iodide Nanowires for Hybrid Perovskite Conversion. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6741-6749.	2.1	9
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40	Ultraviolet Light-Induced Degradation of Luminescence in Mn-Doped $\text{CsPbCl}_3$ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14849-14857.	1.5	28
41	Single-Source Vapor Deposition of Quantum-Cutting $\text{Yb}^{3+}:\text{CsPb}(\text{Cl}/\text{Br})_3$ and Other Complex Metal-Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2019, 2, 4560-4565.	2.5	44
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60	Crystal Structure, Morphology, and Surface Termination of Cyan-Emissive, Six-Monolayers-Thick CsPbBr <sub>3</sub> Nanoplatelets from X-ray Total Scattering. <i>ACS Nano</i> , 2019, 13, 14294-14307.	7.3	79
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86	Reversible Ultra-Slow Crystal Growth of Mixed Lead Bismuth Perovskite Nanocrystals: The Presence of Dynamic Capping. <i>Chemistry - A European Journal</i> , 2020, 26, 1506-1510.	1.7	6
87	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Solids with Robust Green Photoluminescence. <i>ChemNanoMat</i> , 2020, 6, 258-266.	1.5	11
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89	Recent Advances in Droplet Microfluidics. <i>Analytical Chemistry</i> , 2020, 92, 132-149.	3.2	189
90	Flow Synthesis of Metal Halide Perovskite Quantum Dots: From Rapid Parameter Space Mapping to AI-Guided Modular Manufacturing. <i>Matter</i> , 2020, 3, 1053-1086.	5.0	45

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93	Surface Passivation Strategies for Improving Photoluminescence and Stability of Cesium Lead Halide Perovskite Nanocrystals. <i>ChemNanoMat</i> , 2020, 6, 1730-1742.	1.5	44
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95	Polymer-Ligated Nanocrystals Enabled by Nonlinear Block Copolymer Nanoreactors: Synthesis, Properties, and Applications. <i>ACS Nano</i> , 2020, 14, 12491-12521.	7.3	59
96	Photoluminescent and Chromic Nanomaterials for Anticounterfeiting Technologies: Recent Advances and Future Challenges. <i>ACS Nano</i> , 2020, 14, 14417-14492.	7.3	314
97	The effects of monovalent metal cations on the crystal and electronic structures of Cs <sub>2</sub> MBiCl <sub>6</sub> (M = Tl, Ag, Rb, Cs). <i>Journal of Physical Chemistry C</i> , 2020, 124, 23307-23316.	1.2	43
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104	High Luminescent Red Quantum Dot Light-Emitting Diodes by Inkjet Printing. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 964-967.	0.1	2
105	Colloidal Bi-Doped Cs <sub>2</sub> AgI <sub>4</sub> NaInCl <sub>6</sub> Nanocrystals: Undercoordinated Surface Cl Ions Limit their Light Emission Efficiency. <i>ACS Nano</i> , 2020, 2, 1442-1449.		41
106	Cyclodextrin-mediated colloidal synthesis of highly luminescent and stable CsPbBr <sub>3</sub> perovskite nanocrystals. <i>New Journal of Chemistry</i> , 2020, 44, 17368-17373.	1.4	4
107	Blue electroluminescent metal halide perovskites. <i>Journal of Applied Physics</i> , 2020, 128, 120901.	1.1	4
108	Photochromism and photocatalysis of organic-inorganic hybrid iodoargentates modulated by argentophilic interactions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3184-3194.	3.0	28



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110	Zn(II)-Doped Cesium Lead Halide Perovskite Nanocrystals with High Quantum Yield and Wide Color Tunability for Color-Conversion Light-Emitting Displays. <i>ACS Applied Nano Materials</i> , 2020, 3, 7621-7632.	2.4	64
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112	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 2569-2579.	8.8	89
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124	In-situ stabilization strategy for CsPbX <sub>3</sub> -Silicone resin composite with enhanced luminescence and stability. <i>Nano Energy</i> , 2020, 78, 105150.	8.2	18
125	Synthesis of Perovskite Nanocrystals and Their Photon-Emission Application in Conjunction With Liquid Crystals. <i>Frontiers in Chemistry</i> , 2020, 8, 574.	1.8	5
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128	In Situ Observation of a Photodegradation-Induced Blueshift in Perovskite Nanocrystals Using Single-Particle Spectroscopy Combined with Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18770-18776.	1.5	15
129	<i>In situ</i> confined growth of ultras-small perovskite quantum dots in metal-organic frameworks and their quantum confinement effect. <i>Nanoscale</i> , 2020, 12, 17113-17120.	2.8	28
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