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Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment

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#	Paper	IF	Citations
92	Perovskite Quantum Dots for Application in High Color Gamut Backlighting Display of Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 3374-3396	20.1	73
91	Recent advances of lead-free metal halide perovskite single crystals and nanocrystals: synthesis, crystal structure, optical properties, and their diverse applications. <i>Materials Today Chemistry</i> , 2020 , 18, 100363	6.2	15
90	Enhancing quantum yield of CsPb(BrxCl _{1-x}) ₃ nanocrystals through lanthanum doping for efficient blue light-emitting diodes. <i>Nano Energy</i> , 2020 , 77, 105302	17.1	26
89	Integration and Synergy of Organic Single Crystals and Metal-Organic Frameworks in Core-Shell Heterostructures Enables Outstanding Gas Selectivity for Detection. <i>Advanced Functional Materials</i> , 2020 , 30, 2005727	15.6	8
88	Halide perovskite nanocrystals for multiphoton applications. <i>Dalton Transactions</i> , 2020 , 49, 15149-15160	4.3	2
87	Nonlinear optical properties of halide perovskites and their applications. <i>Applied Physics Reviews</i> , 2020 , 7, 041313	17.3	34
86	Recent Progress in Engineering Metal Halide Perovskites for Efficient Visible-Light-Driven Photocatalysis. <i>ChemSusChem</i> , 2020 , 13, 4005-4025	8.3	43
85	Amplified Spontaneous Emission and Random Lasing in MAPbBr ₃ Halide Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020 , 8, 2000690	8.1	14
84	Enhancing the efficiency of green perovskite-QDs-based light-emitting devices by controlling interfacial defects with diamine molecules. <i>Chemical Engineering Journal</i> , 2021 , 403, 126339	14.7	4
83	Highly selective fluorescence turn-on determination of Pb(II) in Water by in-situ enrichment of Pb(II) and MAPbBr ₃ perovskite growth in sulfhydryl functionalized mesoporous alumina film. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128975	8.5	4
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80	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. <i>Small Structures</i> , 2021 , 2, 2000071	8.7	25
79	Blue low-threshold room-temperature stimulated emission from thermostable perovskite nanocrystals glasses through controlling crystallization. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1579-1585	6	8
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75	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskite-Based Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2010768	15.6	13
74	The achievement of red upconversion lasing for highly stable perovskite nanocrystal glasses with the assistance of anion modulation. <i>Nano Research</i> , 2021 , 14, 2861-2866	10	5
73	Ultrastable low-cost colloidal quantum dot microlasers of operative temperature up to 450 K. <i>Light: Science and Applications</i> , 2021 , 10, 60	16.7	9
72	Photoelectrochemical and first-principles investigation on perylene dye-based perovskite/TiO ₂ photoelectrode. <i>Applied Surface Science</i> , 2021 , 543, 148792	6.7	2
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55	The promotion of TiO ₂ induction for finely tunable self-crystallized CsPbX ₃ (X=Cl, Br and I) nanocrystal glasses for LED backlighting display. <i>Chemical Engineering Journal</i> , 2022 , 429, 132391	14.7	2
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52	Lead-free Mn-doped antimony halide perovskite quantum dots with bright deep-red emission. <i>Chemical Communications</i> , 2021 , 57, 2677-2680	5.8	13
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46	Tunable engineering of photo- and electro-induced carrier dynamics in perovskite photoelectronic devices. <i>Science China Materials</i> , 1	7.1	2
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