

Franziska Krieg

List of Publications by Citations

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28

papers

7,373

citations

17

h-index

35

g-index

35

ext. papers

8,891

ext. citations

12.5

avg, IF

5.86

L-index

#	Paper	IF	Citations
28	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. <i>Nano Letters</i> , 2015 , 15, 3692-6	11.5	4888
27	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. <i>Nature Communications</i> , 2015 , 6, 8056	17.4	1058
26	Colloidal CsPbX (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. <i>ACS Energy Letters</i> , 2018 , 3, 641-646	20.1	435
25	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. <i>Science</i> , 2019 , 363, 1068-1072	33.3	218
24	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 63-74	20.1	197
23	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19839-19849	16.4	71
22	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21655-21660	9.5	70
21	The Interplay of Shape and Crystalline Anisotropies in Plasmonic Semiconductor Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 3879-84	11.5	57
20	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 3648-3653	11.5	56
19	Lead-Halide Scalar Couplings in Pb NMR of APbX Perovskites (A = Cs, Methylammonium, Formamidinium; X = Cl, Br, I). <i>Scientific Reports</i> , 2020 , 10, 8229	4.9	39
18	Size-Dependent Biexciton Spectrum in CsPbBr ₃ Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 2639-2645	20.1	30
17	Amplified Spontaneous Emission Threshold Reduction and Operational Stability Improvement in CsPbBr Nanocrystals Films by Hydrophobic Functionalization of the Substrate. <i>Scientific Reports</i> , 2019 , 9, 17964	4.9	28
16	Hot Carrier Dynamics in Perovskite Nanocrystal Solids: Role of the Cold Carriers, Nanoconfinement, and the Surface. <i>Nano Letters</i> , 2020 , 20, 2271-2278	11.5	24
15	Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. <i>ACS Central Science</i> , 2020 , 6, 1138-1149	16.8	24
14	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr Nanocrystals and Their Superfluorescent Assemblies. <i>ACS Central Science</i> , 2021 , 7, 135-144	16.8	22
13	Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5680-5686	6.4	19
12	Colloidal BiF ₃ nanocrystals: a bottom-up approach to conversion-type Li-ion cathodes. <i>Nanoscale</i> , 2015 , 7, 16601-5	7.7	17

11	CsPbBr ₃ Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1909904	15.6	17
10	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. <i>ACS Nano</i> , 2020 , 14, 14686-14697	16.7	12
9	Memories in the photoluminescence intermittency of single cesium lead bromide nanocrystals. <i>Nanoscale</i> , 2020 , 12, 6795-6802	7.7	11
8	Quantifying Photoinduced Polaronic Distortions in Inorganic Lead Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9048-9059	16.4	11
7	Ultra-narrow room-temperature emission from single CsPbBr perovskite quantum dots.. <i>Nature Communications</i> , 2022 , 13, 2587	17.4	8
6	Kinetic modelling of intraband carrier relaxation in bulk and nanocrystalline lead-halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17605-17611	3.6	4
5	Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters. <i>Advanced Optical Materials</i> , 2021 , 9, 2100620	8.1	3
4	Temperature-Independent Dielectric Constant in CsPbBr Nanocrystals Revealed by Linear Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8088-8095	6.4	3
3	Ligands Mediate Anion Exchange between Colloidal Lead-Halide Perovskite Nanocrystals. <i>Nano Letters</i> ,	11.5	3
2	Atomic-Level Description of Thermal Fluctuations in Inorganic Lead Halide Perovskites.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3382-3391	6.4	2
1	Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters (Advanced Optical Materials 18/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170073	8.1	