Franziska Krieg

List of Publications by Year
in descending order

34 papers	10,474 citations	304602 22 h-index	477173 29 g-index
35 all docs	35 docs citations	35 times ranked	9918 citing authors

#	Article	IF	Citations
1	Room-Temperature Anomalous Coherent Excitonic Optical Stark Effect in Metal Halide Perovskite Quantum Dots. Nano Letters, 2022, 22, 808-814.	4.5	12
2	Atomic-Level Description of Thermal Fluctuations in Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 3382-3391.	2.1	13
3	Ultra-narrow room-temperature emission from single CsPbBr3 perovskite quantum dots. Nature Communications, 2022, 13, 2587.	5.8	66
4	Ligands Mediate Anion Exchange between Colloidal Lead-Halide Perovskite Nanocrystals. Nano Letters, 2022, 22, 4340-4346.	4.5	29
5	Perovskite Quantum Dots for Superâ€Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters. Advanced Optical Materials, 2021, 9, 2100620.	3.6	10
6	Quantifying Photoinduced Polaronic Distortions in Inorganic Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2021, 143, 9048-9059.	6.6	33
7	Temperature-Independent Dielectric Constant in CsPbBr₃ Nanocrystals Revealed by Linear Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 8088-8095.	2.1	19
8	Perovskite Quantum Dots for Superâ€Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters (Advanced Optical Materials 18/2021). Advanced Optical Materials, 2021, 9, 2170073.	3.6	0
9	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr₃ Nanocrystals and Their Superfluorescent Assemblies. ACS Central Science, 2021, 7, 135-144.	5.3	75
10	Kinetic modelling of intraband carrier relaxation in bulk and nanocrystalline lead-halide perovskites. Physical Chemistry Chemical Physics, 2020, 22, 17605-17611.	1.3	5
11	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. ACS Nano, 2020, 14, 14686-14697.	7.3	34
12	Lead-Halide Scalar Couplings in 207Pb NMR of APbX3 Perovskites (Aâ€‰=â€‰Cs, Methylammonium,) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	51
13	Memories in the photoluminescence intermittency of single cesium lead bromide nanocrystals. Nanoscale, 2020, 12, 6795-6802.	2.8	17
14	Hot Carrier Dynamics in Perovskite Nanocrystal Solids: Role of the Cold Carriers, Nanoconfinement, and the Surface. Nano Letters, 2020, 20, 2271-2278.	4.5	40
15	CsPbBr₃ Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 1909904.	7.8	29
16	Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. ACS Central Science, 2020, 6, 1138-1149.	5.3	43
17	Element-Selective Probing of Photo-Driven Structural Changes in All-Inorganic Lead Perovskites. , 2020, , .		0
18	Size-Dependent Biexciton Spectrum in CsPbBr₃ Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 2639-2645.	8.8	53

#	Article	IF	Citations
19	Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr3 Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5680-5686.	2.1	29
20	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr₃ Nanocrystals. Nano Letters, 2019, 19, 3648-3653.	4.5	88
21	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 21655-21660.	4.0	98
22	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. Science, 2019, 363, 1068-1072.	6.0	345
23	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX₃ (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. Journal of the American Chemical Society, 2019, 141, 19839-19849.	6.6	141
24	Amplified Spontaneous Emission Threshold Reduction and Operational Stability Improvement in CsPbBr3 Nanocrystals Films by Hydrophobic Functionalization of the Substrate. Scientific Reports, 2019, 9, 17964.	1.6	46
25	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. ACS Energy Letters, 2019, 4, 63-74.	8.8	308
26	Hot-carrier cooling in lead-bromide perovskite materials. , 2019, , .		1
27	Colloidal CsPbX₃ (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. ACS Energy Letters, 2018, 3, 641-646.	8.8	647
28	The Interplay of Shape and Crystalline Anisotropies in Plasmonic Semiconductor Nanocrystals. Nano Letters, 2016, 16, 3879-3884.	4.5	75
29	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. Nano Letters, 2015, 15, 3692-3696.	4.5	6,814
30	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. Nature Communications, 2015, 6, 8056.	5.8	1,278
31	Colloidal BiF₃ nanocrystals: a bottom-up approach to conversion-type Li-ion cathodes. Nanoscale, 2015, 7, 16601-16605.	2.8	21
32	Perovskite Quantum Dots and Super-Resolution Optical Microscopy. , 0, , .		0
33	Room Temperature Optical Properties of Single Perovskite Quantum Dots. , 0, , .		0
34	Hot Carrier Cooling Dynamics in Lead Halide Perovskite Nanomaterials. , 0, , .		0