

Franziska Krieg

List of Publications by Year in descending order

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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	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, 3692-3696.	4.5	6,814
2	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. <i>Nature Communications</i> , 2015, 6, 8056.	5.8	1,278
3	Colloidal CsPbX_3 (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. <i>ACS Energy Letters</i> , 2018, 3, 641-646.	8.8	647
4	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. <i>Science</i> , 2019, 363, 1068-1072.	6.0	345
5	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 63-74.	8.8	308
6	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX_3 (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. <i>Journal of the American Chemical Society</i> , 2019, 141, 19839-19849.	6.6	141
7	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21655-21660.	4.0	98
8	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr_3 Nanocrystals. <i>Nano Letters</i> , 2019, 19, 3648-3653.	4.5	88
9	The Interplay of Shape and Crystalline Anisotropies in Plasmonic Semiconductor Nanocrystals. <i>Nano Letters</i> , 2016, 16, 3879-3884.	4.5	75
10	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr_3 Nanocrystals and Their Superfluorescent Assemblies. <i>ACS Central Science</i> , 2021, 7, 135-144.	5.3	75
11	Ultra-narrow room-temperature emission from single CsPbBr_3 perovskite quantum dots. <i>Nature Communications</i> , 2022, 13, 2587.	5.8	66
12	Size-Dependent Biexciton Spectrum in CsPbBr_3 Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 2639-2645.	8.8	53
13	Lead-Halide Scalar Couplings in ^{207}Pb NMR of APbX_3 Perovskites (A = Cs, Methylammonium, Tj ETQq1 1,0,784314 rgBT / O 1.6 51)	1.6	46
14	Amplified Spontaneous Emission Threshold Reduction and Operational Stability Improvement in CsPbBr_3 Nanocrystals Films by Hydrophobic Functionalization of the Substrate. <i>Scientific Reports</i> , 2019, 9, 17964.	1.6	46
15	Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. <i>ACS Central Science</i> , 2020, 6, 1138-1149.	5.3	43
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.	4.5	40
17	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. <i>ACS Nano</i> , 2020, 14, 14686-14697.	7.3	34
18	Quantifying Photoinduced Polaronic Distortions in Inorganic Lead Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 9048-9059.	6.6	33

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19	Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr ₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5680-5686.	2.1	29
20	CsPbBr ₃ Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 1909904.	7.8	29
21	Ligands Mediate Anion Exchange between Colloidal Lead-Halide Perovskite Nanocrystals. Nano Letters, 2022, 22, 4340-4346.	4.5	29
22	Colloidal BiF ₃ nanocrystals: a bottom-up approach to conversion-type Li-ion cathodes. Nanoscale, 2015, 7, 16601-16605.	2.8	21
23	Temperature-Independent Dielectric Constant in CsPbBr ₃ Nanocrystals Revealed by Linear Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 8088-8095.	2.1	19
24	Memories in the photoluminescence intermittency of single cesium lead bromide nanocrystals. Nanoscale, 2020, 12, 6795-6802.	2.8	17
25	Atomic-Level Description of Thermal Fluctuations in Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 3382-3391.	2.1	13
26	Room-Temperature Anomalous Coherent Excitonic Optical Stark Effect in Metal Halide Perovskite Quantum Dots. Nano Letters, 2022, 22, 808-814.	4.5	12
27	Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters. Advanced Optical Materials, 2021, 9, 2100620.	3.6	10
28	Kinetic modelling of intraband carrier relaxation in bulk and nanocrystalline lead-halide perovskites. Physical Chemistry Chemical Physics, 2020, 22, 17605-17611.	1.3	5
29	Hot-carrier cooling in lead-bromide perovskite materials. , 2019, , .		1
30	Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters (Advanced Optical Materials 18/2021). Advanced Optical Materials, 2021, 9, 2170073.	3.6	0
31	Element-Selective Probing of Photo-Driven Structural Changes in All-Inorganic Lead Perovskites. , 2020, , .		0
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