# Franziska Krieg

## List of Publications by Year in Descending Order



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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 | Atomic-Level Description of Thermal Fluctuations in Inorganic Lead Halide Perovskites.. *Journal of Physical Chemistry Letters*, **2022**, 3382-3391 | 6.4 | 2 |
| 27 | Ultra-narrow room-temperature emission from single CsPbBr perovskite quantum dots.. *Nature Communications*, **2022**, 13, 2587 | 17.4 | 8 |
| 26 | Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr Nanocrystals and Their Superfluorescent Assemblies. *ACS Central Science*, **2021**, 7, 135-144 | 16.8 | 22 |
| 25 | Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters. *Advanced Optical Materials*, **2021**, 9, 2100620 | 8.1 | 3 |
| 24 | Quantifying Photoinduced Polaronic Distortions in Inorganic Lead Halide Perovskite Nanocrystals. *Journal of the American Chemical Society*, **2021**, 143, 9048-9059 | 16.4 | 11 |
| 23 | Temperature-Independent Dielectric Constant in CsPbBr Nanocrystals Revealed by Linear Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 8088-8095 | 6.4 | 3 |
| 22 | Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters (Advanced Optical Materials 18/2021). *Advanced Optical Materials*, **2021**, 9, 2170073 | 8.1 | |
| 21 | Lead-Halide Scalar Couplings in Pb NMR of APbX Perovskites (A = Cs, Methylammonium, Formamidinium; X = Cl, Br, I). *Scientific Reports*, **2020**, 10, 8229 | 4.9 | 39 |
| 20 | Memories in the photoluminescence intermittency of single cesium lead bromide nanocrystals. *Nanoscale*, **2020**, 12, 6795-6802 | 7.7 | 11 |
| 19 | Hot Carrier Dynamics in Perovskite Nanocrystal Solids: Role of the Cold Carriers, Nanoconfinement, and the Surface. *Nano Letters*, **2020**, 20, 2271-2278 | 11.5 | 24 |
| 18 | CsPbBr3 Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. *Advanced Functional Materials*, **2020**, 30, 1909904 | 15.6 | 17 |
| 17 | Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. *ACS Central Science*, **2020**, 6, 1138-1149 | 16.8 | 24 |
| 16 | Kinetic modelling of intraband carrier relaxation in bulk and nanocrystalline lead-halide perovskites. *Physical Chemistry Chemical Physics*, **2020**, 22, 17605-17611 | 3.6 | 4 |
| 15 | Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. *ACS Nano*, **2020**, 14, 14686-14697 | 16.7 | 12 |
| 14 | Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr Perovskite Nanocrystals. *Journal of Physical Chemistry Letters*, **2019**, 10, 5680-5686 | 6.4 | 19 |
| 13 | Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr Nanocrystals. *Nano Letters*, **2019**, 19, 3648-3653 | 11.5 | 56 |
| 12 | Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 21655-21660 | 9.5 | 70 |

# List of Publications

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|---|---|---|---|
| 11 | Size-Dependent Biexciton Spectrum in CsPbBr3 Perovskite Nanocrystals. *ACS Energy Letters*, **2019**, 4, 2639-2645 | 20.1 | 30 |
| 10 | Coherent single-photon emission from colloidal lead halide perovskite quantum dots. *Science*, **2019** , 363, 1068-1072 | 33.3 | 218 |
| 9 | Stable Ultraconcentrated and Ultradilute Colloids of CsPbX (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. *Journal of the American Chemical Society*, **2019**, 141, 19839-19849 | 16.4 | 71 |
| 8 | Amplified Spontaneous Emission Threshold Reduction and Operational Stability Improvement in CsPbBr Nanocrystals Films by Hydrophobic Functionalization of the Substrate. *Scientific Reports*, **2019**, 9, 17964 | 4.9 | 28 |
| 7 | Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. *ACS Energy Letters*, **2019**, 4, 63-74 | 20.1 | 197 |
| 6 | Colloidal CsPbX (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. *ACS Energy Letters*, **2018**, 3, 641-646 | 20.1 | 435 |
| 5 | The Interplay of Shape and Crystalline Anisotropies in Plasmonic Semiconductor Nanocrystals. *Nano Letters*, **2016**, 16, 3879-84 | 11.5 | 57 |
| 4 | Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. *Nature Communications*, **2015**, 6, 8056 | 17.4 | 1058 |
| 3 | Colloidal BiF3 nanocrystals: a bottom-up approach to conversion-type Li-ion cathodes. *Nanoscale*, **2015**, 7, 16601-5 | 7.7 | 17 |
| 2 | 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, 3692-6 | 11.5 | 4888 |
| 1 | Ligands Mediate Anion Exchange between Colloidal Lead-Halide Perovskite Nanocrystals. *Nano Letters*, | 11.5 | 3 |