

A study of luminescence of cesium iodide and some other crystals.

-- Growth and luminescence properties of undoped strontium iodide crystals



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Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration

Excitons and Biexciton Dynamics in Single CsPbBr₃ Perovskite Quantum Dots. The different material responses to light and the e-beam are associated with different electric currents that drive ion migration in the material.

Single crystals of caesium formamidinium lead halide perovskites: solution growth and gamma dosimetry

Wynn, Hyun Suk Jung, Ying Shirley Meng, Macfarlane, Cheuk-Yui Leung, Monica Olvera de la Cruz, Chad A. In contrast, light-induced degradation results in material decomposition to scattered particles and shows little PL spectral shifts.

Radiation damage in cesium iodide and other scintillating crystals (Conference)

Pure CsI crystal was also grown for comparison.

All

Metal Coordination Polymer Framework Governed by Heat of Hydration for Noninvasive Differentiation of Alkali Metal Series.

Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration

Calcium fluoride, CaF₂, forms an FCC unit cell with calcium ions green at the lattice points and fluoride ions red occupying all of the tetrahedral sites between them. Thin black lines show the Gaussian peaks that are combined to produce the cationic contribution.

Residual Nanoscale Strain in Cesium Lead Bromide Perovskite Reduces Stability and Shifts Local Luminescence

This black phase is obtained as a SC upon synthesis from a hot solution at 130 °C, but then quickly undergoes a phase transition to the yellow

phase at room temperature. What is the formula of the compound? The molecule is affected by the ion and by neighboring water molecules in its close vicinity. Dynamic Evolution of 2D Layers within Perovskite Nanocrystals via Salt Pair Extraction and Reinsertion.

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