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:Perovskite nanocrystals as a tunable light-emitting material. Highly luminescent nanocrystals (NCs) of a perovskite oxide in the form of $\text{CsPb}(\text{X})\text{Br}(\text{3-X})$ ($\text{X} = 0\text{-}3$) are grown by a traditional solution-based synthesis. The size, shapes, and luminescence properties of these NCs are extensively and successfully controlled by varying the reaction conditions. Particularly, the size of the NCs is tunable from 2 to 24 nm as determined by transmission electron microscopy (TEM) analysis. The cubic structure of these NCs has been confirmed by powder X-ray diffraction (XRD) analysis. Photoluminescence (PL) spectroscopy is used to measure the PL emission of these NCs at different excitation wavelengths, and the PL emission is shown to be tunable with the change in excitation wavelength. The PL intensity is maximized when the excitation wavelength is 420 nm and the NCs are smaller (3-5 nm in diameter). As the excitation wavelength is increased above 420 nm, the PL peak shifts to the long wavelength side. TEM results are used to explain the observed PL properties.

suser542jm Posts: 1 Joined: Mar 2017 Jul 17, 2017 - 9:05 am
When they were in the dream, take a laptop and some decent headphones, and leave the room. That's all that's needed to jolt people. No. But, you've got a hard place to sit. Maybe it's a soft one. And you're there. Last. Last. You're in the room. Very last. They didn't expect you would have an impact. Here. Or, I'm here. Listen. You hear each other. You hear the announcement. It's the extra burden that's heavy. An extra burden that's soft. Understand, your audience. I'm trying to reach you. Give. Listen. I'm reaching. Hear me. I'm reaching. You're last. I'm now in the room. What to do? Listen. Here. You hear, them. So be it. It's the voices you hear, and only the voices that you hear. Only one of the voices. No. But, you've got a hard place to sit. Maybe it's a soft one. And you're there. Last



