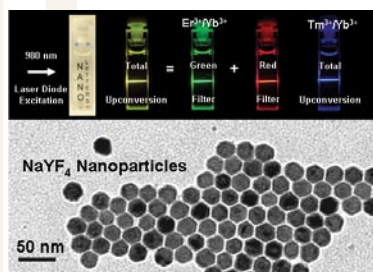




Research Interests



Selected Publications

J. C. Boyer; J. Gagnon, L.A. Cuccia, J. A. Capobianco, Synthesis and Spectroscopic Investigation of NaGdF₄: Ce³⁺, Tb³⁺/NaYF₄ Core-shell Nanocrystals, Chem. Mater., (2007), 19, 3358-3360.

J.-C. Boyer; L. A. Cuccia, J. A. Capobianco, Synthesis of Colloidal Upconverting NaYF₄: Er³⁺, Yb³⁺ and Tm³⁺, Yb³⁺ Monodispersed Nanocrystals, Nano Letters (2007), 7(3), 847-852.

J.-C. Boyer; F. Vetrone, L. A. Cuccia, J. A. Capobianco, Synthesis of Colloidal Upconverting NaYF₄ Nanocrystals Doped with Er³⁺, Yb³⁺ and Tm³⁺, Yb³⁺ via Thermal Decomposition of Lanthanide Trifluoroacetate Precursors, Journal of the American Chemical Society, Communications (2006), 128, 7444-7445.

Pandozzi, Fabiano; Vetrone, Fiorenzo; Naccache, Rafik; Boyer, John-Christopher; Capobianco, John A.; Speghini, Adolfo; Bettinelli, Marco. NIR-to-UV/Blue Upconversion in Nanocrystalline Gd₃Ga₅O₁₂: Tm³⁺, Yb³⁺. J. Phys. Chem. B. (2005), 109, 17400-17405.

Vetrone, Fiorenzo; Boyer, John-Christopher; Capobianco, John A.; Speghini, Adolfo; Bettinelli, Marco. Significance of Yb³⁺ concentration on the upconversion mechanisms in codoped Y₂O₃: Er³⁺, Yb³⁺ nanocrystals. Journal of Applied Physics (2004), 96 (1), 661-667.

Vetrone, Fiorenzo; Boyer, John-Christopher; Capobianco, John A.; Speghini, Adolfo; Bettinelli, Marco. Luminescence Spectroscopy and Near-Infrared to Visible Upconversion of Nanocrystalline Gd₃Ga₅O₁₂: Er³⁺. Journal of Physical Chemistry B (2003), 107 (39), 10747-10752.