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Surface-coated nanoparticles of LaF₃ and LaPO₄ doped with the luminescent trivalent lanthanide ions Eu³⁺, Nd³⁺, Er³⁺, Pr³⁺, Ho³⁺, and Yb³⁺ have been prepared. These ions emit in the visible and in the near-infrared part of the electromagnetic spectrum. The ions Nd

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[Luminescent lanthanide-doped nanomaterials](#)

Luminescent lanthanide-doped nanomaterials Thesis submitted to obtain the degree of Master of Science in Chemistry by Linde MIERMANS Academic year 2011 - 2012 Promoter: prof. dr. Rik Van Deun Supervisor: Anna Kaczmarek. Acknowledgements I would like to thank Prof. Dr. Rik Van Deun for giving me the opportunity to do my thesis in his research group, for introducing me to the world of lanthanide

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Luminescent ...

Lanthanide-Doped Nanoparticles with Excellent Luminescent Properties in Organic Media Jan W. Stouwdam, Gerald A. Hebbink, Jurriaan Huskens, and **Lanthanide-Doped Luminescent Nano-Bioprobes for the ...**

Ln^{3+} -doped inorganic luminescent nanoparticles have attracted considerable interest for a variety of biomedical applications due to their superior physicochemical properties. In this feature

Lanthanide-doped nanomaterials for luminescence detection ...

Lanthanide-doped inorganic nanomaterials are a prominent class of nanocrystals with multicolor emissions that are an essential tool for optical imaging in analytical chemistry.

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Lanthanide-doped inorganic nanoparticles possess superior physicochemical features such as long-lived luminescence, large antenna-generated Stokes or anti-Stokes shifts, narrow emission bands, high resistance to photobleaching and low toxicity, and thus are regarded as a new generation of luminescent bioprobes.

Multifunctional Lanthanide-Doped Core/Shell Nanoparticles ...

Multifunctional Lanthanide-Doped Core/Shell Nanoparticles: Integration of Upconversion Luminescence, Temperature Sensing, and Photothermal Conversion Properties

Lanthanide-doped luminescent nano-bioprobes: from ...

Trivalent lanthanide (Ln^{3+})-doped luminescent inorganic nanoparticles (NPs), characterized by long-lived luminescence, large Stokes and/or anti-Stokes shifts, narrow emission bands and high photochemical stability, are considered to be promising candidates as luminescent bioprobes in biomedicine and biotechnology.

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