

## LANTHANIDE DOPED LUMINESCENT NANOMATERIALS%0A

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[Lanthanide-Doped Luminescent Nanomaterials | SpringerLink](#)

Lanthanide-Doped Luminescent Nanomaterials reviews the latest advances in the development of lanthanide-doped luminescent inorganic nanoparticles for potential bioapplications. This book covers the chemical and physical fundamentals of these nanoparticles, such as the controlled synthesis methodology, surface modification chemistry, optical physics, and their promising applications in diverse bioassays, with an emphasis on heterogeneous and homogeneous in-vitro biodetection of tumor biomarkers.

[Lanthanide-doped nanomaterials for luminescence detection ...](#)

Lanthanide-doped nanomaterials are essential for optical imaging. Lanthanide-doped nanomaterials have excellent luminescence. Lanthanide-doped nanomaterials can be functionalized with polymers.

[Lanthanide-Doped Luminescent Nanomaterials - From ...](#)

Lanthanide-Doped Luminescent Nanomaterials reviews the latest advances in the development of lanthanide-doped luminescent inorganic nanoparticles for potential bioapplications. This book covers the chemical and physical fundamentals of these nanoparticles, such as the controlled synthesis methodology, surface modification chemistry, optical physics, and their promising applications in diverse bioassays, with an emphasis on heterogeneous and homogeneous in-vitro biodetection of tumor biomarkers.

[Lanthanide-doped luminescent nano-bioprobes for the ...](#)

As a new generation of luminescent bioprobes, lanthanide (Ln 3+)-doped inorganic luminescent nanoparticles have attracted considerable interest for a variety of biomedical applications due to their superior physicochemical properties.

[Luminescent lanthanide-doped nanomaterials](#)

Department of Inorganic and Physical Chemistry Research group f-element coordination chemistry Luminescent lanthanide-doped nanomaterials Thesis submitted to obtain [Lanthanide-doped luminescent nanoprobess: controlled ...](#)

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 as compared to conventional molecular probes like organic dyes and lanthanide chelates.

#### **Lanthanide-Doped Luminescent Nano-Bioprobes for the ...**

Sensitive and specific biodetection of tumor markers is essential for early-stage cancer diagnosis and therapy, and will ultimately increase the patient survival rate.

#### **Luminescence from Lanthanide-Doped Nanoparticles**

Luminescence from Lanthanide-Doped Nanoparticles

Introduction to Lanthanides The lanthanide metals, or lanthanoids, are elements of atomic number 57

(Lanthanum) through 71 (Lutetium).

#### **Lanthanide-Doped CaS and SrS Luminescent Nanocrystals: A ...**

Here we introduce a single-source precursor approach that successfully leads to Ce<sup>3+</sup>- and Eu<sup>2+</sup>-doped CaS and SrS luminescent NCs with diameters of 10 nm and with luminescent properties similar to those of the bulk analogues.

#### **Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis ...**

Lanthanide doped upconverting nanoparticles (UCNPs) have emerged as a new class of luminescent materials, with major discoveries and overall significant progress during the last decade.