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Ultrasmall Lanthanide Oxide Nanoparticles For

Abstract: This chapter discusses in vivo and in vitro application of ultrasmall lanthanide oxide nanoparticles to MRI, CT, FI, and multi-modal imaging. For each case, a simple theory of operation and one representative image is provided. To obtain MRI and CT images, a mouse is intravenously injected with an aqueous sample solution of biocompatible ligand coated ultrasmall lanthanide oxide ...

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Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical ...

Most books discuss general and broad topics regarding molecular imagings. However, Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical Imaging and Therapy, will mainly focus on lanthanide oxide nanoparticles for molecular imaging and therapeutics. Multi-modal imaging capabilities will discussed, along with up-converting FI by using lanthanide oxide nanoparticles.

Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical ...

Main Ultrasmall lanthanide oxide nanoparticles for biomedical imaging and therapy. Ultrasmall lanthanide oxide nanoparticles for biomedical imaging and therapy Gang Ho Lee, Yongmin Chang, Tae-Jeong Kim. Year: 2014. Edition: 1. Publisher: Woodhead Publishing. Language: english. Pages: 208. ISBN 10: 0081000693.

Ultrasmall lanthanide oxide nanoparticles for biomedical ...

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Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical ...

Ultrasmall Mixed Eu-Gd Oxide Nanoparticles for Multimodal Fluorescence and Magnetic Resonance Imaging of Passive Accumulation and Retention in TBI. ACS Omega 2020 , 5 (26) , 16220-16227.

Lanthanide Nanoparticles: From Design toward Bioimaging ...

There is a continuing research interest in mixed lanthanide oxide nanoparticles because they have both magnetic and fluorescent properties useful for dual imaging in biomedicine 1,2,3,4,5,6,7,8,9 ...

Mixed lanthanide oxide nanoparticles as dual imaging agent ...

Ultrasmall Oxygen-Deficient Bimetallic Oxide MnWO_x Nanoparticles for Depletion of Endogenous GSH and Enhanced Sonodynamic Cancer Therapy Fei Gong Institute of Functional Nano & Soft Materials (FUNSOM), Jiangsu Key Laboratory for Carbon-Based Functional Materials & Devices, Soochow University, Suzhou, 215123 China

Ultrasmall Oxygen-Deficient Bimetallic Oxide MnWOX ...

Ultrasmall Mixed Eu-Gd Oxide Nanoparticles for Multimodal Fluorescence and Magnetic Resonance Imaging of Passive Accumulation and Retention in TBI Badrul Alam Bony, Hunter A. Miller, Aria W. Tarudji, Connor C. Gee, Anandakumar Sarella, Michael G. Nichols, and Forrest M. Kievit* Cite This: ACS Omega 2020, 5, 16220-16227 Read Online

Ultrasmall Mixed Eu-Gd Oxide Nanoparticles for Multimodal ...

Get this from a library! Ultrasmall lanthanide oxide nanoparticles for biomedical imaging and therapy. [Gang Ho Lee; Yongmin Chang; Tae-Jeong Kim] -- Most books discuss general and broad topics regarding molecular imagings. However, Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical Imaging and Therapy, will mainly focus on lanthanide oxide ...

Ultrasmall lanthanide oxide nanoparticles for biomedical ...

Trivalent lanthanide (Ln³⁺) ion-doped ultrasmall (sub-5 nm) nanoparticles (NPs) usually exhibit unique optical properties that cannot be realized in their larger counterparts, and thus they have received tremendous interest in basic research and diverse applications. 1 - 12 Although recent advances in the synthesis of Ln³⁺-doped NPs have facilitated the preparation of ultrasmall NPs of ...

Activating Surface Dark Emitters in Lanthanide-Doped ...

Ultrasmall lanthanide oxide (Ln₂O₃) nanoparticles (NPs) (Ln = Eu, Gd, and Dy) are promising materials as high-performance imaging agents because of their excellent magnetic, optical, and X-ray attenuation properties which can be applied as magnetic resonance imaging (MRI), fluorescence imaging (FI), and X-ray computed tomography (CT) agents, respectively.

Ultrasmall Europium, Gadolinium, and Dysprosium Oxide ...

Nucleus-targeting NPs based on RuO₂ (RuO₂ NPs) were developed by controlling the size and the surface charge of nanoparticles (NPs). This study

not only demonstrates a facile approach for the fabrication of ultrasmall CS-RuO₂ NPs with good biocompatibility and excellent photothermal properties but also their unique potential for the nucleus-targeted low-temperature PTT.

Nucleus-targeting ultrasmall ruthenium(IV) oxide ...

An ultrasmall Ru₂P nanoparticles-reduced graphene oxide hybrid: ... In this work, a hybrid of Ru₂P nanoparticles and reduced graphene oxide is proposed as an efficient electrocatalyst for artificial N₂-to-NH₃ fixation with excellent selectivity under ambient conditions.

An ultrasmall Ru₂P nanoparticles-reduced graphene oxide ...

Abstract The synthesis and characterization of small monodisperse multimodal iron oxide nanoparticles (IONPs), functionalized with boron-dipyrromethene (BODIPY) derivatives is described. Optical an...

Ultrasmall iron oxide nanoparticles functionalized with ...

A new prototype consisting of ultrasmall superparamagnetic iron oxide (USPIO) nanoparticles decorated with europium(III) ions encapsulated in a DO3A organic scaffold was designed as a platform for further development of bimodal contrast agents for MRI and optical imaging.

Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with ...

There is a continuing research interest in mixed lanthanide oxide nanoparticles because they have both magnetic and fluorescent properties useful for dual imaging in biomedicine 1,2,3,4,5,6,7,8,9,10. By using different lanthanide ions in synthesis, a variety of mixed lanthanide oxide nanoparticles can be synthesized.

Mixed lanthanide oxide nanoparticles as dual imaging agent ...

However, many nanoparticles do not have ideal properties to provide high contrast in different imaging modes. In order to address this, ultrasmall lanthanide doped oxide and fluoride nanoparticles with strong NIR to NIR upconversion fluorescence and a strong magnetic response for magnetic resonance imaging (MRI) have been developed.

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