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Ultrasmall Lanthanide Oxide Nanoparticles For
Description. 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.

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[PDF] Ultrasmall Lanthanide Oxide Nanoparticles For ...
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 ...
Abstract: Background: Imaging agents are crucial in diagnosing diseases. 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 ...
Abstract. Nucleus-targeting NPs based on RuO 2 (RuO2NPs) 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-RuO2NPs 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 ...
Abstract. The development of new nanoplatforms with enhanced tumor accumulation for accurate diagnosis still remains a great challenge in current precision nanomedicine. Herein, we report the design of stem cell-mediated delivery of nanogels (NGs) loaded with ultrasmall iron oxide (Fe 3 O 4) nanoparticles (NPs) for enhanced magnetic resonance (MR) imaging of tumors.

Stem cell-mediated delivery of nanogels loaded with ...
Abstract. Sonodynamic therapy (SDT) triggered by ultrasound (US) has attracted increasing attention owing to its abilities to overcome critical limitations including low tissue-penetration depth and phototoxicity in photodynamic therapy. Herein, the design of a new type of sonosensitizer is revealed, namely, ultrasmall oxygen-deficient bimetallic oxide MnWO X nanoparticles, for multimodal imaging-guided enhanced SDT against cancer.

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 ...
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.

Ultrasmall lanthanide-doped nanoparticles as multimodal ...
Therefore, ultrasmall mixed lanthanide oxide nanoparticles will be extremely useful for dual magnetic resonance imaging (MRI)-fluorescent imaging (FI), as demonstrated in this study. There is no doubt that dual imaging will play a vital role in diagnosing diseases in the near future.

Mixed lanthanide oxide nanoparticles as dual imaging agent ...
Lanthanide nanoparticles (Ln NPs) integrating unique electronic configurations of Ln ions and nanometric-size effect have been recognized as promising candidates for MRI contrast enhancement.

Lanthanide Nanoparticles: Promising Candidates for ...
Lanthanide-based nanomaterials serve multimodality approach such as diagnosis and therapy. This speciality makes them superior over their other counterparts like transition metals and organic-based materials.

Surface-Modified Lanthanide Nanomaterials for Drug ...
Therefore, ultrasmall mixed lanthanide oxide nanoparticles will be extremely useful for dual magnetic resonance imaging (MRI)-fluorescent imaging (FI), as demonstrated in this study. There is no...

Mixed lanthanide oxide nanoparticles as dual imaging agent ...
Ultrasmall Lanthanide Oxide Nanoparticles for Biomedical Imaging and Therapy by Lee, Gang Ho; Kim, Jeong-Tae and Publisher Woodhead Publishing. Save up to 80% by choosing the eTextbook option for ISBN: 9780081000663, 9780081000694, 0081000693.

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Jeong-Tae Kim - amazon.com
Polymerized PPy with high photothermal conversion efficiency was introduced to assemble the ultrasmall Gd2O3nanoparticles which have high longitudinal relaxation rate and signal-to-noise ratio, thus obtaining Gd2O3@PPy nanoparticles which possess a larger particle size and can be more suitable for tumor targeting based on the EPR effect.

Polymer-based gadolinium oxide nanocomposites for FL/MR/PA ...
Iron Oxide Nanoparticles Are Retained in Organs Outside of the RES. Outside of the RES, iron oxide nanoparticles are taken up by adrenal glands (34,101), alveolar macrophages in the lungs , peritoneal macrophages , and synovial membrane macrophages in joints (32,103).

Ten Things You Might Not Know about Iron Oxide Nanoparticles
Traumatic brain injury (TBI) is a leading cause of death and disability worldwide. TBI can have a long-term impact on the quality of life for survivors of all ages. However, there remains no approved treatment that improves outcomes following TBI, which is partially due to poor delivery of therapies into the brain. Therefore, there is a significant unmet need to develop more effective delivery ...