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Structured doping of upconversion nanosystems for biological applications

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PUBLICATIONS COVERED IN THIS THESIS

Upconversion Luminescence of β -NaYF₄:Yb³⁺,Er³⁺@ β -NaYF₄ Core/Shell Nanoparticles: Excitation Power Density and Surface Dependence

Yu Wang, Langping Tu, Junwei Zhao, Yajuan Sun, Xianggui Kong, and Hong Zhang.
J. Phys. Chem. C, **2009**, *113*, 7164-7169.

Effect of Surface Related Organic Vibrational Modes in Luminescent Upconversion Dynamics of Rare Earth Ions Doped Nanoparticles

Yu Wang, Szymon Smolarek, Xianggui Kong, Wybren J. Buma, Albert M. Brouwer, and Hong Zhang.
J. Nanosci. & Nanotechnol., **2010**, *10*, 7149-7153.

Critical Shell Thickness of Upconversion Nanoparticle for Singlet Oxygen Generation

Yu Wang, Kai Liu, Xiaomin Liu, Kateřina Dohnalová, Tom Gregorkiewicz, Xianggui Kong, Maurice C.G. Aalders, Wybren J. Buma, and Hong Zhang.
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A Novel Covalent Upconversion Nanoconjugates for Integrated Cancer Cell Imaging and Photodynamic Therapy

Kai Liu, Yu Wang, Qinghui Zeng, Youlin Zhang, Xiaomin Liu, Langping Tu, Tao Liu, Xianggui Kong, Maurice C.G. Aalders, and Hong Zhang.
To be submitted.

Separating Doping Area of Emitters: A Strategy to Enhance Concentration Quenching Threshold of Upconversion Luminescence for Bio-applications

Xiaomin Liu, Youlin Zhang, Langping Tu, Yu Wang, Lu Xia, Qinhui Zeng, Chunguang Li, Zhan Shi, Xianggui Kong, and Hong Zhang.
Submitted.

OTHER PUBLICATIONS

Spectroscopic Study of the Authentic Emitter of AMPPD Chemiluminescence in Alkaline Aqueous Solution

Langping Tu, Yu Wang, Yifei Yang, Bert H. Bakker, Xianggui Kong, Albert M. Brouwer, Wybren J. Buma and Hong Zhang

Phys. Chem. Chem. Phys., **2010**, *12*, 6789 – 6794.

Au/SiO₂ Core/shell Nanoparticles Enhancing Fluorescence Resonance Energy Transfer Efficiency in Solution

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Chem. Commun., **2010**, *46*, 6479 – 6481.

Controlled Synthesis, Formation Mechanism, and Great Enhancement of Red Upconversion Luminescence of NaYF₄:Yb³⁺,Er³⁺ Nanocrystals/Submicroplates at Low Doping Level

Junwei Zhao, Yajuan Sun, Xianggui Kong, Lijin Tian, Yu Wang, Langping Tu, Jialong Zhao, and Hong Zhang.

J. Phys. Chem. B, **2008**, *112*, 15666-15672.

A Facile Approach to Fabrication of Hexagonal-phase NaYF₄:Yb³⁺,Er³⁺ Hollow Nanospheres: Formation Mechanism and Upconversion Luminescence

Junwei Zhao, Xiaomin Liu, Di Cui, Yajuan Sun, Yi Yu, Yifei Yang, Chuang Du, Yu Wang, Kai Song, Liu Kai, Shaozhe Lu, Xianggui Kong, and Hong Zhang.

Eur. J. Inorg. Chem., **2010**, 1813-1819.