Structured doping of upconversion nanosystems for biological applications

Wang, Y.

Link to publication

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
PUBLICATIONS COVERED IN THIS THESIS

Upconversion Luminescence of $\beta$-NaYF$_4$;Yb$^{3+}$,Er$^{3+}$@$\beta$-NaYF$_4$ Core/Shell Nanoparticles: Excitation Power Density and Surface Dependence
Yu Wang, Langping Tu, Junwei Zhao, Yajuan Sun, Xianggui Kong, and Hong Zhang.

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.

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.
Submitted.

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, Chenguang 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

Au/SiO$_2$ Core/shell Nanoparticles Enhancing Fluorescence Resonance Energy Transfer Efficiency in Solution
Qinghui Zeng, Youlin Zhang, Xiaomin Liu, Langping Tu, Yu Wang, Xianggui Kong, and Hong Zhang.

Controlled Synthesis, Formation Mechanism, and Great Enhancement of Red Upconversion Luminescence of NaYF$_4$:Yb$^{3+}$,Er$^{3+}$ Nanocrystals/Submicroplates at Low Doping Level
Junwei Zhao, Yajuan Sun, Xianggui Kong, Lijin Tian, Yu Wang, Langping Tu, Jialong Zhao, and Hong Zhang.

A Facile Approach to Fabrication of Hexagonal-phase NaYF$_4$:Yb$^{3+}$,Er$^{3+}$ 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.