



## UvA-DARE (Digital Academic Repository)

### Structured doping of upconversion nanosystems for biological applications

Wang, Y.

**Publication date**  
2011

[Link to publication](#)

#### **Citation for published version (APA):**

Wang, Y. (2011). *Structured doping of upconversion nanosystems for biological applications*. [Thesis, fully internal, Universiteit van Amsterdam].

#### **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.

# Acknowledgements

How time flies! My PhD career is coming to an end. At this moment I would like to express my thanks to everyone that contributed, directly or indirectly, to this thesis. During the past years I have worked closely with colleagues from UvA and AMC and got a lot of support from many wonderful people. Without them this thesis would never have been done.

First of all, I would like to express my sincere thanks to my supervisors Dr. Hong Zhang, Prof. Xianggui Kong, Prof. Wybren Jan Buma, and Dr. Maurice Aalders for your years of guidance, endless support, patience and encouragement. Thanks are also offered to Prof. Fred Brouwer, Dr. René Williams and Dr. Sander Woutersen for their comments and suggestions during the group meetings. I wish to express my thanks to Prof. Fred Brouwer, Prof. Gadi Rothenberg, Prof. Ton van Leeuwen, Prof. Andries Meijerink, Prof. Tom Gregorkiewicz, Prof. Ad Oskam and Prof. Dick Sterenberg, who were willing to participate in my defense committee.

I have spent 3 years (two years master and one year PhD time) in CIOMP, Chinese Academy of Sciences, from where I started my research career. I had a very good time in that group, thanks to my colleges and dear friends who supported and helped me a lot, Kai Liu, Junwei Zhao, Lijin Tian, Kai Song, Yajuan Sun, Langping Tu, Xiaomin Liu, Chengzhou Zhao, Yuqiu Qu, Yifei Yang, Qingbin Zhang, Kefu Chao, Qinghui Zeng, Youlin Zhang, Yingying Ran, Xin Wang *et al*. Although now we are far apart from each other I will always miss you all.

I would also like to express my thanks to Haifeng Zhao, Shaozhe Lü and Xingguang Ren for your assistance in my measurements.

In 2008, I dragged my 40 kg luggage, flied from Eastern Asia to Western Europe. As a man of twenty-five, I curiously looked at this brand new world with all sorts of different people. I had never talked to any foreigners in China before, and became a “foreigner” here. I have to say I felt so comfortable working at the UvA, special thanks to all of you, my smart and lovely colleagues in the Molecular Photonics group of UvA. Marcel Plugge, Joanna Siekierzycka, Arnaud Spangenberg, Deniz Günbaş, Tanzeela Raja, Tatu Kumpulainen, Junhong Qian, Danny Shaw, Eric Tan Mengmeng, Van Anh Nguyen, Guanxin Yao, Pavol Bodis, Chantal Carpentier, Szymon Smolarek, Alxander Vdovin,

Samir Memari, Alisa Rupenyan, Pablo Contreras, Mathijs Panman, Adriana Huerta, Sérgio Domingos, Tibert van der Loop, Heleen Meuzelaar, Arthur Newton, Mathilde Routier, Mitra Almasian, Dayinta Perrier, I'm very grateful for all your help and advice. Thank you very much and good luck with your further research.

Thanks are extended to Bert Bakker, Michiel Hilbers, Steven Kettelarij, Michiel Groeneveld, Rolf Sitters, thanks to you I was able to learn a lot about chemistry and equipment. Thanks for your help.

I should not forget to thank Jan van Marle, Hank van Veen and Daniel Martijn De Bruin from AMC, Emile van Veldhoven from TNO Delft, Kateřina Dohnalová and Wieteke de Boer from Optoelectronic Materials Group, Stefania Grecea from Heterogeneous Catalysis and Sustainable Chemistry group. Working with you was a pleasure for me.

Thanks to all my friends from different countries. If you have a chance to visit my hometown Changchun, which has ten times the population of Amsterdam, I promise I will be your tour guide, take you to have a look at ice sculptures and enjoy the native Chinese food.

Thanks to Siran Zhang for your support and understanding.

Finally, thanks to my dear parents who always give me endless love, encouragement and support in every moment of my life. It has been three years since I left. I felt so sorry that as your only child I could not be with you during those three Chinese Spring Festivals when every family should be reunited. Every time I see that your hair turns increasingly white, sorrow and grief fill my heart. How I miss you both!

Thank you all! 感谢每一个帮助过我的人。

Yu Wang (王 瑀)

Amsterdam, May 2011