

简历

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教育背景

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|-----------------|---------------------------------------|
| 2000年9月-2004年7月 | 武汉大学化学学士学位 |
| 2004年9月-2009年7月 | 北京大学无机化学博士学位
导师：严纯华院士 |
| 2009年9月-2012年5月 | 博士后佛罗里达大学化学系
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获奖情况

- 2015 第二批中组部青年拔尖人才支持计划
- 2014 国家自然科学基金委优秀青年科学基金
- 2013 教育部新世纪人才支持计划
- 2012 湖北省楚天学者
- 2011 全国优秀百篇博士论文奖
- 2011 北京大学优秀博士论文一等奖

2008 北京大学 拜耳奖学金
2008 北京大学 创新奖
2007 北京大学 康宁奖学金
2007 北京大学 钟陈玉澜奖学金
2004 武汉大学 宝钢奖学金

代表性工作

- (1) Jie Wang, Yurong Wei, Xiaoxia Hu, Yu-Yan Fang, Xinyang Li, Jian Liu, Shengfu Wang, and *Quan Yuan**, *J. Am. Chem. Soc.* **2015**, 137, 10576.
- (2) Jie Wang, Ting Wei, Xinyang Li, Binhao Zhang, Jiayi Wang, Chi Huang, and *Quan Yuan**, *Angew. Chem. Int. Ed.* **2014**, 126, 1642.
- (3) *Quan Yuan*, Yuan Wu, Jie Wang, Danqing Lu, Zilong Zhao, Tao Liu, Xiaobing Zhang, Weihong Tan*, *Angew. Chem. Int. Ed.* **2013**, 52, 1.
- (4) *Quan Yuan*, Yun-Fei Zhang, Yan Chen, Ruo-Wen Wang, Chao-Lin Du, Emir Yasun, and Wei-Hong Tan*, *Proc. Natl. Acad. Sci. U. S. A.* **2011**, 108, 9331.
- (5) *Quan Yuan*, Hao-Hong Duan, Le-Le Li, Zhen-Xing Li, Wen-Tao Duan, Le-Sheng Zhang, Wei-Guo Song, and Chun-Hua Yan*, *Adv. Mater.* **2010**, 22, 1475.
- (6) *Quan Yuan*, An-Xiang Yin, Chen Luo, Ling-Dong Sun, Ya-Wen Zhang, Wen-Tao Duan, Hai-Chao Liu*, and Chun-Hua Yan*, *J. Am. Chem. Soc.* **2008**, 130, 3465.
- (7) *Quan Yuan*, Qiang Liu, Wei-Guo Song, Wei Feng, Ling-Dong Sun, Ya-Wen Zhang, and Chun-Hua Yan*, *J. Am. Chem. Soc.* **2007**, 129, 6698.

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- (1) *Quan Yuan*, Qiang Liu, Wei-Guo Song, Wei Feng, Ling-Dong Sun, Ya-Wen Zhang, and Chun-Hua Yan*, "Highly Ordered Mesoporous Ce_{1-x}ZrxO₂ Solid solutions with Crystalline Walls" *J. Am. Chem. Soc.* **2007**, 129, 6698.
- (2) *Quan Yuan*, An-Xiang Yin, Chen Luo, Ling-Dong Sun, Ya-Wen Zhang, Wen-Tao Duan, Hai-Chao Liu*, and Chun-Hua Yan*, "Facile Synthesis for Ordered Mesoporous γ -Aluminas with High Thermal Stability" *J. Am. Chem. Soc.* **2008**, 130, 3465.
- (3) *Quan Yuan*, Le-Le Li, Shu-Liang Lu, Hao-Hong Duan, Zhen-Xing Li, Yue-Xiang

Zhu, and Chun-Hua Yan*, “General and Facile Synthesis of Zr-based Functional Materials with Highly Ordered Mesoporous Structures” *J. Phys. Chem. C* **2009**, 113, 4117.

(4) **Quan Yuan**, Hao-Hong Duan, Le-Le Li, and Chun-Hua Yan*, “Controlled Synthesis and Assembly of Ceria-based Nanomaterials” *J. Colloid Interf. Sci.* **2009**, 335, 151. (Invited review)

(5) **Quan Yuan**, Yang Liu, Le-Le Li, Zhen-Xing Li, Chen-Jie Fang, Wen-Tao Duan, Xing-Guo Li, and Chun-Hua Yan*, “Highly Ordered Mesoporous Titania-Zirconia Photocatalyst for Applications in Water Splitting and Degradation of Rhodamine-B” *Micropor. Mesopor. Mater.* **2009**, 124, 169.

(6) **Quan Yuan**, Hao-Hong Duan, Le-Le Li, Zhen-Xing Li, Wen-Tao Duan, Le-Sheng Zhang, Wei-Guo Song, and Chun-Hua Yan*, “Homogeneous Dispersed Ceria Nanocatalyst Stabilized with Ordered Mesoporous Alumina” *Adv. Mater.* **2010**, 22, 1475.

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(8) **Quan Yuan**, Yunfei Zhang, Tao Chen, Danqing Lu, Zilong Zhao, Xiaobing Zhang, Zhenxing Li, Chun-Hua Yan*, and Weihong Tan*, “Photon-manipulated Drug Release from Mesoporous Nanocontainer Controlled by Azobenzene-modified Nucleic Acid” *ACS Nano.* **2012**, 6, 6337.

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(10) Le-Le Li, Mengying Xie, Jie Wang, Xinyang Li, Cheng Wang, **Quan Yuan***, Dai-Wen Pang*, Yi Lu*, and Weihong Tan, “Vitamin-responsive Mesoporous Nanocarrier with DNA Aptamer-mediated Cell Targeting” *Chem. Commun.* **2013**, 49, 5823.

(11) **Quan Yuan**, Yuan Wu, Jie Wang, Danqing Lu, Zilong Zhao, Tao Liu, Xiaobing Zhang, and Weihong Tan*, “Targeted Bioimaging and Photodynamic Therapy Nanoplatfrom Using an Aptamer-Guided G-Quadruplex DNA Carrier and Near-Infrared Light” *Angew. Chem. In. Ed.* **2013**, 52, 13965.

(12) Jie Wang, Ting Wei, Xinyang Li, Binhao Zhang, Jiayi Wang, Chi Huang, and **Quan Yuan***, “Near-infrared Light Mediated Imaging of Latent Fingerprints based on Molecular Recognition” *Angew. Chem. In. Ed.* **2014**, 53, 1616.

(13) Yanbing Yang, Enzheng Shi, Peixu Li, Dehai Wu, Shiting Wu, Yuanyuan Shang, Wenjing Xu, Anyuan Cao*, and **Quan Yuan***, “A Compressible Mesoporous SiO₂ Sponge Supported by Carbon Nanotube Network” *Nanoscale* **2014**, 6, 3585.

(14) Xiaoxia Hu, Ting Wei, Jie Wang, Xinyang Li, Binhao Zhang, Zhihao Li, Lele Li*, and **Quan Yuan***, "A Near-Infrared-Light Mediated Ratiometric Luminescent Sensor for Multimode Visualized Assays of Explosives" *Anal. Chem.* **2014**, 86, 10484.

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10.1360/N032015-00074.

(16) Lin Cheng, Xuefeng Xu, Yuyan Fang, Yan Li, Jiayi Wang, Guojia Wan, Xueying Ge, Liangjie Yuan, Keli Zhang, Lei Liao*, and **Quan Yuan***, "Triblock copolymer-assisted construction of 20 nm-sized ytterbium-doped TiO₂ hollow nanostructures for enhanced solar energy utilization efficiency" *Science China Chemistry* **2015**, 58, 850.

(17) Yanbing Yang, Peixu Li, Shiting Wu, Xinyang Li, Enzheng Shi, Qicang Shen, Dehai Wu, Wen-jing Xu, Anyuan Cao*, and **Quan Yuan***, "Hierarchically Designed Three Dimensional Macro/Mesoporous Carbon Frameworks for Advanced Electrochemical Capacitance Storage" *Chem. Eur. J.* **2015**, 21, 6157.

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(19) Jie Wang, Yurong Wei, Xiaoxia Hu, Yu-Yan Fang, Xinyang Li, Jian Liu, Shengfu Wang, and **Quan Yuan***, "Protein Activity Regulation: Inhibition by Closed-loop Aptamer-based Structures and Restoration by Near-IR Stimulation" *J. Am. Chem. Soc.* **2015**, 137, 10576.

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(21) 刘子恩, 葛雪莹, 荔雅文, 尹骏闻, 彭叶青, 李保民, 袁奎*, 不同结构类型贵金属-二氧化铈纳米材料的制备及催化性能。 *科学通报*, **2015**, 60, 2288.

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Wei-Guo Song, and Chun-Hua Yan*, “Sustainable and Facile Route to Nearly Monodisperse Spherical Aggregates of CeO₂ Nanocrystals with Ionic Liquids and Their Catalytic Activities for CO Oxidation” *J. Phys. Chem. C* **2008**, 112, 18405.

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- (40) Jian Wang, Mingxu You, Guizhi Zhu, Mohammed Ibrahim Shukoor, Zhuo Chen, Zilong Zhao, Meghan B. Altman, *Quan Yuan*, Zhi Zhu, Yan Chen, Cheng Zhi Huang*, and Weihong Tan*, "Photosensitizer-Gold Nanorods Composite for Targeted Multimodal Therapy" *Small* **2013**, 9, 3678.
- (41) Peixu Li, Enzheng Shi, Yanbing Yang, Yuanyuan Shang, Qingyu Peng, Shiting Wu, Jinqun Wei, Kunlin Wang, Hongwei Zhu, *Quan Yuan*, Anyuan Cao*, and Dehai Wu*, "CNT-Polypyrrole Core-Shell Sponge and its Application as Highly Compressible Supercapacitor Electrode" *Nano Research* **2014**, 7, 209.
- (42) Wenqi Zhao, Shanshan Wang, Xiaodong He, Yuanyuan Shang, Qingyu Peng, Chao Wang, Shanyi Du, Xuchun Gui, Yanbing Yang, *Quan Yuan*, Enzheng Shi, Shiting Wu, Wenjing Xu, Anyuan Cao*, and Yibin Li*, "Elastic Improvement of Carbon Nanotube Sponges by Depositing Amorphous Carbon Coating" *Carbon* **2014**, 76, 19.