

CURRICULUM VITAE

Personal Information

Family name: **Guo** First name: **Xiangke**

Sex: Male

Nationality: China

Date of Birth: March 30, 1981

Marital Status: Married

Health: Excellent

Hobbies: table tennis, badminton, graphic design

Address:

Department of Chemistry, Nanjing University

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Education & Research Experience

2013-present Associate Professor

Chemistry Department, Nanjing University, P. R. China.

2010-2012 Postdoc

Chemistry Department, Nanjing University, P. R. China.

2007-2010 Ph.D. in Chemistry, Advisor: Yi Chen

Chemistry Department, Nanjing University, P. R. China.

2005-2007 M.S. in Chemistry, Advisor: Xuefeng Guo

Chemistry Department, Nanjing University, P. R. China.

2000-2004 B.S. in Packing Engineering, Advisor: Dongxia Huo

Packing Engineering Department, Zhengzhou University, P. R. China.

Awards

- 2011 Outstanding Post Doctoral Award
- 2010 Outstanding Poster Award in NCC15
- 2009 Outstanding Graduate Award
- 2009 Award for Transport Holdings Scholarship
- 2008 Award for Logo Designing of ISSCG-14

Funding

- 2017 National Natural Science Foundation of China
- 2013 National Natural Science Foundation of China
- 2013 Natural Science Foundation of Jiangsu Province (P. R. China)
- 2013 Specialized Research Fund for the Doctoral Program of Higher Education
- 2012 Special Financial Grant from the China Postdoctoral Science Foundation
- 2011 General Financial Grant from the China Postdoctoral Science Foundation

Fields of interest

1. **Design and synthesis of advanced materials with smart structures**, including inorganic nanomaterials (CaPO nanotubes, AlPO nanorolls, CuPO nanotubes, NiPO nanotubes, Fe₂O₃ nanotubes, meso-Al₂O₃, etc) and hydrogel (hydrogel of Poly (N-isopropylacrylamide), hydrogel of Polyvinyl alcohol, etc.).
2. **Catalytic and biomedical performance and application**, including catalytic reactions (selective hydrogenation and selective oxidation, etc) and drug delivery.

Selected Publications

- 1) **Guo, X. K.**, Yu, L., Chen, L. H., Zhang, H. Y., Peng, L. M., Guo, X. F. and Ding, W. P. Organoamine-assisted biomimetic synthesis of faceted hexagonal hydroxyapatite nanotubes with prominent stimulation activity for osteoblast proliferation. *J. Mater. Chem. B* **2**, 1760-1763 (2014).
- 2) **Guo, X. K.**, Fan, Q., Yu, L., Liang, J. Y., Ji, W. X., Peng, L. M., Ding, W. P. and Chen Y. F. Sandwich-like LiFePO₄/graphene hybrid nanosheets: in situ catalytic graphitization and their high-rate performance for lithium ion batteries.

J. Mater. Chem. A **1**, 11534-11538 (2013).

- 3) **Guo, X. K.**, Dong, S. P., Petersen, E. J., Gao, S. X., Huang, Q. G. and Mao, L.
Biological Uptake and Depuration of Radio-labeled Graphene by *Daphnia magna*.
Environmental Science & Technology **47**, 12524-12531 (2013).
- 4) **Guo, X. K.**, Guo, X. F., Tao, W. M., Chen, L. H., Peng, L. M. and Ding, W. P.
Inorganic nanotubes formation through the synergic evolution of dynamic templates and metallophosphates: from vesicles to nanotubes.
Chem. Commun. **47**, 10061-10063 (2011).
- 5) **Guo, X. K.**, Ma, Q. L., Guo, X. F., Ding, W. P. and Chen, Y.
Biomimetic synthesis of aluminophosphate nanorolls induced by mixed organoamines.
Chem. Commun. **23**, 3443-3445 (2009).
- 6) Zhu, Y., **Guo, X. K.**, Shen, Y. Q., Mo, M., Guo, X. F., Ding, W. P. and Chen, Y.
Preparation and catalytic property of a non-crystalline alloy of iron–boron with one-dimensional nanostructures.
Nanotechnology **18**, 195601-195605 (2007).
- 7) Zhu, Y., **Guo, X. K.**, Jin, J. F., Shen, Y. Q., Guo, X. F. and Ding, W. P. Controllable synthesis of CuS nanotubes and nanobelts using lyotropic liquid crystal templates.
J. Mater. Sci. **42**, 1042-1045 (2007).
- 8) Zhu, Y., **Guo, X. K.**, Mo, M., Guo, X. F., Ding, W. P. and Chen, Y.
In situ synthesis of horizontally aligned metal–boron alloy nanotubes on a silicon substrate with liquid crystal template.
Nanotechnology **19**, 405602-405605 (2008).
- 9) Chen, L. H., Li, X., **Guo, X. K.**, Guo, X. F. and Ding, W. P.
Composite-hydroxide-assisted hydrothermal synthesis of magnesium silicate nanotube.
Chinese Journal of Inorganic Chemistry **29**, 1333-1338 (2013).
- 10) Cheng, L. Y., **Guo, X. K.**, Song, C. H., Yu, G. Y., Cui, Y. M., Xue, N. H., Peng, L. H., Guo, X. F. and Ding, W. P.
High performance mesoporous zirconium phosphate for dehydration of xylose to furfural in aqueous-phase.
RSC Advances **3**, 23228-23235 (2013).