



## 师资队伍

## 材料学院

当前位置：首页 师资队伍 在职教师 按学院分类 材料学院

## 在职教师

按字母分类

按学院分类

## 讲客座教授

## 名师介绍

## 博士研究生导师

## 硕士研究生导师



姓名：杨永刚

职称：教授、博士生导师

部门：材料学院

联系方式：

Tel: 86-0512-65880047 (O)

Fax:86-0512-65882052 (O)

Email:ygyang@suda.edu.cn

课题组网站

**学历及学术经历:** 1993年吉林大学高分子化学与物理专业本科毕业，1996年吉林大学物理化学硕士研究生毕业，获硕士学位，1999年中科院上海有机化学研究所博士研究生毕业，获博士学位。1999年7月至2001年11月中科院上海有机化学研究所，助研。2001年12月至2006年8月相继在法国Ecole Nationale Supérieure de Chimie de Montpellier，日本奈良先端科技大学院大学和日本信州大学做博士后。现为苏州大学化学化工学院高分子化学与物理专业博士生导师。

**研究领域:** 手性的起源、转移和放大；手性纳米材料的制备；基于手性小分子化合物和共轭聚合物的超分子化学；含氟液晶；生物硅化。

## 代表性论文

1. Helical Polymer Command Surface: Thermally Driven Chiroptical Transfer and Amplification in Binary Polysilane Film System, A. Saxena, G. Guo, M. Fujiki, **Y. Yang**, A. Ohira, K. Okoshi and M. Naito, *Macromolecules*, **2004**, 37, 3081 – 3083.
2. Room-temperature one-step immobilization of rod-like helical polymer onto hydrophilic substrates, G. Guo, M. Naito, M. Fujiki, A. Saxena, K. Okoshi, **Y. Yang**, M. Ishikawa and T. Hagihara. *Chem. Commun.*, **2004**, 276-277.
3. Preparation of Cotton-like Silica, **Y. Yang**, M. Suzuki, M. Kimura, H. Shirai and K. Hanabusa, *Chem. Commun.*, **2004**, 1332-1333.
4. Formation of Helical Hybrid Silica Bundles, **Y. Yang**, M. Nakazawa, M. Suzuki, M. Kimura, H. Shirai, K. Hanabusa, *Chem. Mater.*, **2004**, 16, 3791-3793.
5. Nanofiberization of inner helical mesoporous silica using chiral gelator as template under a shear flow, **Y. Yang**, M. Suzuki, H. Shirai, A. Kurose, K. Hanabusa, *Chem. Commun.*, **2005**, 2032-2034.
6. Preparation of helical nanostructures using chiral cationic surfactant, **Y. Yang**, M. Suzuki, S. Owa, H. Shirai, K. Hanabusa, *Chem. Commun.*, **2005**, 4462-4464.
7. Preparation of Helical Mesoporous Silica and Hybrid Silica Nanofibers using Hydrogelator, **Y. Yang**, M. Suzuki, H. Fukui, H. Shirai and K. Hanabusa, *Chem. Mater.*, **2006**, 18, 1324-1329.
8. Control of mesoporous silica nanostructures and pore-architectures using a thickener and a gelator, **Y. Yang**, M. Suzuki, S. Owa, H. Shirai and K. Hanabusa, *J. Am. Chem. Soc.*, **2007**, 129, 581-587.
9. Fabrication of helical hybrid silica bundles, **Y. Yang\***, M. Nakazawa, M. Suzuki, H. Shirai, K. Hanabusa, *J. Mater. Chem.*, **2007**, 17, 2936-2943.
10. Hybrid silica tubes with chiral walls, Y. Chen, B. Li, X. Wu, X. Zhu, M. Suzuki, K. Hanabusa, and **Y. Yang\***, *Chem. Commun.*, **2008**, 4948-4950.
11. From branched self-assemblies to branched mesoporous silica nanoribbons, B. Li, Y. Chen, H. Zhao, X. Pei, L. Bi, K. Hanabusa and **Y. Yang\***, *Chem. Commun.*, **2008**, 6366-6368.
12. Helical transfer through nonlocal interactions, X. Wu, S. Ji, Y. Li, B. Li, X. Zhu, K. Hanabusa, **Y. Yang\***, *J. Am. Chem. Soc.*, **2009**, 131, 5986-5993.
13. Preparation of hollow silica spheres with holes on the shells, Y. Chen, Y. Li, Y. Chen, X. Wu, M. Zhang, B. Li, **Y. Yang\***, *Chem. Commun.* **2009**, 5177-5179.

**14.** Preparation of helical mesoporous ethylene-silica nanofibers with lamellar mesopores on the surfaces, Y. Li, L. Bi, S. Wang, Y. Chen, B. Li, X. Zhu and **Y. Yang\***, *Chem. Commun.*, **2010**, **46**, **2680-2682**.

**15.** Artificial frustule prepared through a single-templating approach, Z. Yan, Y. Li, S. Wang, Z. Xu, Y. Chen, B. Li, X. Zhu, G. Zhu and **Y. Yang\***, *Chem. Commun.*, **2010**, **46**, 8410-8412.

**16.** Helical periodic mesoporous 1,4-phenylene-silica nanorods with chiral crystalline walls, Xiaojuan Liu, Wei Zhuang, Baozong Li, Limin Wu, Sibing Wang, Yi Li and **Y. Yang\***, *Chem. Commun.*, **2011**, **47**, 7215-7217.

**17.** Characterization of 4,4'-biphenylene-silicas and a chiral sensor for silicas, Baozong Li, Zhen Xu, Wei Zhuang, Yi Chen, Sibing Wang, Yi Li, Mingliang Wang\* and **Y. Yang\***, *Chem. Commun.*, **2011**, **47**, 11495-11497.