

彭娟

## 彭娟博士，副教授

1996-2000	吉林大学	化学学士
2000-2005	中科院长春应用化学研究所	高分子博士
2005-2007	德国马普高分子研究所	博士后
2008至今	复旦大学	副教授

### 研究领域 (Current Research Area)

- ① 高分子薄膜微结构的构筑与调控  
Fabrication, characterization and manipulation of polymer micro/nanostructures by non-conventional self-assembling techniques.
- ② 嵌段共聚物的自组装  
Self-assembly of block copolymers, using atomic force microscopy to detect their morphology evolution process.
- ③ 半导体纳米粒子的制备  
Fabrication of semiconductor nanostructures via block copolymer templating coupled with sol-gel process.

### 代表性论文 (Selected Publications)

- Wang R, Peng J, \* Qiu F, \* Yang Y, Xie Z. Simultaneous blue, green, and red emission from diblock copolymer micellar films: a new approach to white-light emission, *Chem. Commun.* 2009, 6723.
- Peng J, Marcos AG, Jeong SJ, Frey H, Kim DH. \* Photocatalytic printing of inorganic nanopatterns via poly(styrene-block-carbosilane) copolymer thin films on titania substrates, *Chem. Commun.* 2009, 1091.



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### Education and Employment

1996-2000	B.S., Jilin University, China
2000-2005	Ph.D., Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China
2005-2007	Postdoctoral Research Associate, Max Planck Institute for Polymer Research, Mainz, Germany
2008 till now	Associate Professor, Fudan University, China

- Peng J, Knoll W\*, Park C, Kim DH\*. Two-dimensional arrays of strings of TiO<sub>2</sub> nanoparticles via cooperative block copolymer self-assembly, *Chem. Mater.*, 2008, 20: 1200.
- Peng J, Xing R, Wu Y, Li B, Han Y\*, Knoll W, Kim DH\*. Dewetting of thin polystyrene films under confinement, *Langmuir*, 2007, 23: 2326.
- Peng J, Kim DH, Knoll W, Xuan Y, Li B, Han Y\*. Morphologies in solvent-annealed thin films of symmetric diblock copolymer, *J. Chem. Phys.*, 2006, 125: 064702.

### 主要奖励和荣誉 (Awards and Honors)

- 中国科学院院长优秀奖 (2004)
- 德国洪堡研究奖学金 (2006)