浙江大学 ZHEJIANG UNIVERSITY 高分子科学与工程学系

# 学 术 报 告

# Biomimetic，Functional Soft Materials: From Hydrogels to Liquid Crystal Elastomers

- 报告人：吴子良 博士
- 时　间：**2012** 年**6**月**12**日 上午 **10:30**
- 地　点：高分子楼 **230-231**
- 邀请人：郑 强 教授

**Dr. Zi Liang Wu graduated in Chemical Engineering from Zhejiang University in 2003 and received his Master's degree in 2006 from East China University of Science and Technology. He obtained his PhD in Biological Sciences under the supervision of Prof. Jian Ping Gong at Hokkaido University in 2010. And then, he joined the group of Prof. Eugenia Kumacheva as a postdoctoral fellow at the University of Toronto (2010-2011). Currently, he is a postdoctoral fellow in the group of Prof. Patrick Keller at Institut Curie. His research interests are focused on fundamentals and functions of soft materials, such as polymer hydrogels and liquid crystalline elastomers. He has published many papers in Adv. Mat., JACS, Macromolecules, Soft Matter and so on.**

## Publications:


1. **Zi Liang Wu**, Hidemitsu Furukawa, Wei Yang, Jian Ping Gong, Mesoscopic Network Structure of a Semi-Rigid Polyion Complex Nested in a Polycationic Hydrogel, ***Advanced Materials***, 2009, *21*, 4696-4700.
2. **Zi Liang Wu**, Takayuki Kurokawa, Songmiao Liang, Hidemitsu Furukawa, Jian Ping Gong, Hydrogels with Cylindrically Symmetric Structure at Macroscopic Scale by Self-Assembly of Semi-Rigid Polyion Complex, ***Journal of American Chemical Society***, 2010, *132*, 10064-10069 (**Highlight of Current Issue**).
3. **Zi Liang Wu**, Takayuki Kurokawa, Songmiao Liang, Jian Ping Gong, Dual Network Formation in Polyelectrolyte Hydrogel via Viscoelastic Phase Separation: Role of Ionic Strength and Polymerization Kinetics, ***Macromolecules***, 2010, *43*, 8203-8208.
4. **Zi Liang Wu**, Md. Arifuzzaman, Takayuki Kurokawa, Jian Ping Gong, Hydrogel with Cubic-Packed Giant Concentric Domains of Semi-Rigid Polyion Complex, ***Soft Matter***, 2011, *7*, 1884-1889.
5. **Zi Liang Wu**, Takayuki Kurokawa, Daisuke Sawada, Jian Hu, Hidemitsu Furukawa, Jian Ping Gong, Anisotropic Hydrogel from Complexation-Driven Reorientation of Semi-Rigid Polyanion at $Ca^{2+}$ Diffusion Flux Front, ***Macromolecules***, 2011, 44, 3535-3541.
6. **Zi Liang Wu**, Daisuke Sawada, Takayuki Kurokawa, Akira Kakugo, Wei Yang, Hidemitsu Furukawa, and Jian Ping Gong, Strain-Induced Molecular Reorientation and Birefringence Reversion of A Robust, Anisotropic Double-Network Hydrogel, ***Macromolecules***, 2011, *44*, 3542-3547 (**Cover Page Article**).


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