

首页 学部概况 机构设置 学部资讯 师资队伍 科学研究 党建工作 学生园地 人才培养 联系我们

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

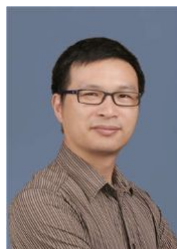
按学院分类

讲座教授

名师介绍

博士研究生导师

硕士研究生导师



姓名：屠迎锋
职称：教授、博士生导师

部门：材料学院
联系方式：

Tel: 86-512-65882130 (o)

Fax: 86-512-65882130 (o)

Email: tuyingfeng@suda.edu.cn

[课题组网站](#)

学历及学术经历:1994.9-1998.7北京大学化学与分子工程学院，获学士学位，导师宛新华教授；1998.9-2003.7北京大学高分子化学与物理系，获博士学位，导师周其凤院士（与香港中文大学吴奇院士联合培养）；2004.2-2009.10美国阿克伦大学（The University of Akron）高分子科学与工程系博士后，导师程正迪院士和Frank W. Harris教授。2009.11回苏州大学，任教授，博士生导师。迄今在国内外核心期刊如*J. Am. Chem. Soc.*、*Macromolecules*等发表SCI论文90余篇，被他引1500余次。迄今已主持4项国家自然科学基金项目，1项“973”项目子课题，以及多个企业横向课题。授权中国发明专利7项。与杜邦（中国）、华润（包装）、苏州旭光等多个企业有良好的合作研究关系。

研究领域:环状拓扑结构在高分子合成中的应用。主要包括以下几个方面：1)以环状寡聚酯为单体，通过课题组首创的开环-缩合级联聚合方法，合成高性能聚酯或聚醚酯交替多嵌段共聚物弹性体；2)将环状拓扑结构引入金属超分子聚合物中，制备具有优异性能的环境响应性（金属离子、PH等）超分子聚合物；3)以笼状分子纳米粒子（富勒烯、POSS等）作为单元构筑新型超分子液晶；4)环状高分子聚合物的合成和性能研究。

本课题组招收化学、材料、应化、化工方面的学生，欢迎有兴趣的本科生、研究生、博士后加盟。

代表性论文

- Lingfeng Gao, Joongsuk Oh, **Yingfeng Tu**,* and Taiyun Chang* "Preparation of Low Molecular Weight Cyclic Polystyrenes with High Purity via Liquid Chromatography at the Critical Condition" *Polymer* **2018**, 135, 279-284.
- Zhikai Li, Jiali Gu, Shengli Qi, Dezhen Wu, Lingfeng Gao, Ze Chen, Jun Guo, Xiaohong Li, Yong Wang, Xiaoming Yang, and **Yingfeng Tu*** "Shackling Effect Induced Property Differences in Metallo-Supramolecular Polymers" *Journal of the American Chemical Society* **2017**, 139, 14364-14367.
- Minzhi Zhang, Jiali Gu, Xiang Zhu, Lingfeng Gao, Xiaohong Li, Xiaoming Yang, **Yingfeng Tu**,* Christopher Y. Li "Synthesis of poly(butylene terephthalate)-block-poly(ethylene oxide)-block-poly(propylene oxide)-block-poly(ethylene oxide) multiblock terpolymers via a facile PROP method" *Polymer* **2017**, 130, 199-208.
- Weichun Huang, Qiwei Pan, Hao Qi, Xiaohong Li, **Yingfeng Tu**,* Christopher Y. Li,* "Poly(butylene terephthalate)-b-poly(ethylene oxide) alternating multiblock copolymers: synthesis and application in solid polymer electrolytes" *Polymer*, **2017**, 128, 188-199.
- Tiantian Zhu, Xiaoyan Zhang,* Zhikai Li, Chih-Hao Hsu, Wei Chen, Toshikazu Miyoshi, Xiaohong Li, Xiaoming Yang, **Yingfeng Tu*** and Christopher Y. Li "Controlling the enthalpy-entropy competition in supramolecular fullerene liquid crystals by tuning the flexible chain length" *Chemical Communications* **2017**, 8336--8339.
- Min Lu, Xiang Zhu, Xiao-hong Li, Xiao-ming Yang and **Ying-feng Tu*** "Synthesis of Cyclic Oligo(ethylene adipate)s and their Metal Polymerization to Poly(ethylene adipate)" *Chinese Journal of Polymer Science* **2017**, 35, 1051-1060.
- Dong-xue Chen, Ling-feng Gao, Xiao-hong Li* and **Ying-feng Tu*** "Precise Molecular Weight Determination and Structure Characterization of End-functionalized Polymers: an NMR Approach via Combination of One-dimensional and Two-dimensional Techniques" *Chinese Journal of Polymer Science* **2017**, 35, 681-692.

8. Xiang Zhu, Jiali Gu, Xiaohong Li, Xiaoming Yang, Lian Wang, Yongjin Li, He Li and **Yingfeng Tu*** "PROP: an in situ cascade polymerization method for the facile synthesis of polyesters" *Polymer Chemistry* **2017**, 8, 1953-1962.
9. Jianying Chen, Dongxue Chen, Weichun Huang, Xiaoming Yang,* Xiaohong Li,* **Yingfeng Tu**,* and Xiulin Zhu "A One Pot Facile Synthesis of Poly(butylene terephthalate)-block-Poly(tetramethylene oxide) Alternative Multiblock Copolymers via PROP Method" *Polymer*, **2016**, 107, 29-36.
10. Lingfeng Gao, Joongsuk Oh, Taiyun Chang, Dongxue Chen, Xiaohong Li, Xiaoming Yang, **Yingfeng Tu**,* Xiulin Zhu and Christopher Y. Li "A nearly quantitative synthetic approach towards monocyclic polystyrenes and the solvent, concentration and molecular weight effect on cyclic yield" *Polymer*, **2016**, 101, 379-387.
11. Yanhong Wu, Rui Cao, Gaoxiang Wu, Weichun Huang, Ze Chen, Xiaoming Yang,* **Yingfeng Tu*** "From ultratough artificial nacre to elastomer: Poly (n-butyl acrylate) grafted graphene oxide nanocomposites" *Composites: Part A* **2016**, 88, 156-164.
12. Xiaoyan Zhang, Chih-Hao Hsu, Xiangkui Ren, Yan Gu, Bo Song, Hao-Jan Sun, Shuang Yang, Erqiang Chen, **Yingfeng Tu**,* Xiaohong Li, Xiaoming Yang, Yaowen Li, and Xiulin Zhu* "Supramolecular [60]Fullerene Liquid Crystals Formed By Self-Organized Two-Dimensional Crystals" *Angewandte Chemie International Edition* **2015**, 54, 114-117.
13. Shuang Chen, Dongxue Chen, Min Lu, Xin Zhang, He Li, Xiaoyan Zhang, Xiaoming Yang, Xiaohong Li,* **Yingfeng Tu*** and Christopher Y. Li "Incorporating Pendent Fullerenes with High Refractive Index Backbones: A Conjunction Effect Method for High Refractive Index Polymers" *Macromolecules* **2015**, 48, 8480-8488.
14. Yanhong Wu, Rui Cao, Liangliang Ji, Weichun Huang, Xiaoming Yang* and **Yingfeng Tu*** "Synergistic toughening of bioinspired artificial nacre by polystyrene grafted graphene oxide" *RSC Advances* **2015**, 5, 28085-28091.
15. Jun Wu, Tao-guang Qu, Ling-feng Gao, Xiao-ming Yang, Xiao-hong Li, **Ying-feng Tu*** and Xiu-lin Zhu "Special Odd-Even Effect of Degree of Oligomerization on Properties of Cyclic Oligoesters" *Chinese Journal of Polymer Science* **2015**, 33, 1069-1073.
16. **Yingfeng Tu**,* Yan Gu, Ryan M. Van Horn, Maxim Mitrokhin, Frank W. Harris* and Stephen Z. D. Cheng "A synthetic approach towards micron-sized smectic liquid crystal capsules via the diffusion controlled swelling method" *Polymer Chemistry* **2015**, 6, 2551-2559.
17. Liangliang Ji, Xiaofang Chen, Yanhong Wu, Xiaoming Yang,* **Yingfeng Tu*** "Influence of liquid crystalline formation on the phase behavior of side-chain liquid crystalline block copolymers" *Polymer* **2015**, 61, 147-154.
18. **Yingfeng Tu**,* Zhichao Ji, Xiaoming Yang, Xinhua Wan, Qi-Feng Zhou "Supramolecular Chemistry in the Formation of Self-Assembled Nanostructures from a High-Molecular-Weight Rod-Coil Block Copolymer" *Macromolecular Rapid Communications* **2014**, 35, 1795-1800.
19. Honghong Yan, Shuang Chen, Min Lu, Xiang Zhu, Yanqing Li, Dezhen Wu, **Yingfeng Tu*** and Xiulin Zhu "Side-chain fullerene polyesters: a new class of high refractive index polymers" *Materials Horizons* **2014**, 1, 247-250.
20. Yanhong Wu, Chengxin Guo, Na Li, Liangliang Ji, Yaowen Li, **Yingfeng Tu**,* Xiaoming Yang* "Three-dimensional Interconnected Nanocarbon Hybrid Prepared by One-pot Synthesis Method with Polypyrrole-based Nanotube and Graphene and the Application in High-performance Capacitance" *Electrochimica Acta* **2014**, 146, 386-394.
21. Weichun Huang, Sheng Wang, Chengxin Guo, Xiaoming Yang,* Yaowen Li, **Yingfeng Tu*** "Synthesis and characterization of well-defined poly(L-lactide) functionalized graphene oxide sheets with high grafting ratio prepared through click chemistry and supramolecular interactions" *Polymer* **2014**, 55, 4619-4626.
22. Chao Li, Xiaoming Yang, Yue Zhao, Pan Zhang, **Yingfeng Tu**,* Yaowen Li* "Hole extraction layer utilizing well defined graphene oxide with multiple functionalities for high-performance bulk heterojunction solar cells" *Organic Electronics* **2014**, 15, 2868-2875.
23. Chengxin Guo, Liangliang Ji, Yaowen Li, Xiaoming Yang,* **Yingfeng Tu*** "Crystallization Behavior of Spray-Dried and Freeze-Dried Graphene Oxide/Poly(trimethylene terephthalate) Composites" *Journal of Applied Polymer Science* **2014**, 131, 40332.
24. Weichun Huang, Yingbo Wan, Jianying Chen, Qiaozhen Xu, Xiaohong Li,* Xiaoming Yang, Yaowen Li and **Yingfeng Tu*** "One pot synthesis and characterization of novel poly(ether ester) multiblock copolymers containing poly(tetramethylene oxide) and poly(ethylene terephthalate)" *Polymer Chemistry* **2014**, 5, 945-954.
25. Chengxin Guo, Na Li, Liangliang Ji, Yaowen Li, Xiaoming Yang,* Yun Lu,* **Yingfeng Tu*** "N- and O-doped carbonaceous nanotubes from polypyrrole for potential application in high-performance capacitance" *Journal of Power Sources* **2014**, 247, 660-666.
26. Qiaozhen Xu, Jianying Chen, Weichun Huang, Taoguang Qu, Xiaohong Li, Yaowen Li, Xiaoming Yang, and **Yingfeng Tu*** "One Pot, One Feeding Step, Two-Stage Polymerization Synthesis and Characterization of (PTT-b-PTMO-b-PTT)_n Multiblock Copolymers" *Macromolecules* **2013**, 46, 7274-7281.
27. Chao Li, Yujin Chen, Yue Zhao, Huifang Wang, Wei Zhang, Yaowen Li,* Xiaoming Yang, Changqi Ma, Liwei Chen,* Xiulin Zhu and **Yingfeng Tu*** "Acceptor-Donor-Acceptor Based Small Molecules with Varied Crystallinity: Processing Additive Induced Nanofibril in Blend Film for Photovoltaic Application" *Nanoscale* **2013**, 5, 9536-9540.

28. Xiaoming Yang, Chengxin Guo, Liangliang Ji, Yaowen Li, and **Yingfeng Tu*** "Liquid Crystalline and Shear-Induced Properties of an Aqueous Solution of Graphene Oxide Sheets" *Langmuir* **2013**, 29, 8103-8107.
29. Pan Zhang, Chao Li, Yaowen Li,* Xiaoming Yang, Liwei Chen, Bin Xu, Wenjing Tian and **Yingfeng Tu*** "A fullerene dyad with a tri(octyloxy)benzene moiety induced efficient nanoscale active layer for the poly(3-hexylthiophene)-based bulk heterojunction solar cell applications" *Chemical Communication* **2013**, 49, 4917-4919.
30. Yujin Chen, Chao Li, Pan Zhang, Yaowen Li,* Xiaoming Yang, Liwei Chen, **Yingfeng Tu**,* "Solution-Processable Tetrazine and Oligothiophene Based Linear A-D-A Small Molecules: Synthesis, Hierarchical Structure and Photovoltaic Properties" *Organic Electronics* **2013**, 14, 1424-1434.
31. Lijun Ma, Xiaoming Yang, Lingfeng Gao, Min Lu, Chengxin Guo, Yaowen Li, **Yingfeng Tu**,* Xiulin Zhu "Synthesis and characterization of polymer grafted graphene oxide sheets using a Ce(IV)/HNO₃ redox system in an aqueous solution" *Carbon* **2013**, 269-276.
32. Jianying Chen, Weichun Huang, Qiaozhen Xu, **Yingfeng Tu**,* Xiulin Zhu,* Erqiang Chen* "PBT-b-PEO-b-PBT triblock copolymers: synthesis, characterization and double-crystalline properties" *Polymer* **2013**, 54, 6725-6731.
33. Yaowen Li, Liwei Chen, Yujin Chen, Chao Li, Pan Zhang, Lingfeng Gao, Xiaoming Yang, **Yingfeng Tu**,* Xiulin Zhu "Conjugated moiety effect on blend film phase separation and photovoltaic properties of benzo[1,2-b:4,5-b']dithiophene-containing coplanar donor-acceptor copolymers" *Solar Energy Materials & Solar Cells* **2013**, 108, 136-145.
34. Pan Zhang, Chao Li, Yue Zhao, Yaowen Li,* **Yingfeng Tu*** "Controlling Morphology of Active Layer by Tuning Coplanarity of the Centrality in Acceptor-Donor-Acceptor Small Molecules for Photovoltaic Application" *Chinese Journal of Chemistry* **2013**, 31, 1439-1448.
35. Hao-Jan Sun, **Yingfeng Tu**,* Chien-Lung Wang, Ryan M. Van Horn, Chi-Chun Tsai, Matthew J. Graham, Bin Sun, Bernard Lotz, Wen-Bin Zhang* and Stephen Z. D. Cheng* "Hierarchical structure and polymorphism of a sphere-cubic shape amphiphile based on a polyhedral oligomeric silsesquioxane-[60]fullerene conjugate" *Journal of Materials Chemistry* **2011**, 21, 14240-14247.
36. Xiaoming Yang, Lijun Ma, Sheng Wang, Yaowen Li, **Yingfeng Tu**,* Xiulin Zhu "Clicking graphite oxide sheets with well-defined polystyrenes: A new Strategy to control the layer thickness" *Polymer* **2011**, 52, 3046-3052.
37. Yaowen Li, Yujin Chen, Xing Liu, Zhong Wang, Xiaoming Yang, **Yingfeng Tu**,* and Xiulin Zhu "Controlling Blend Film Morphology by Varying Alkyl Side Chain in Highly Coplanar Donor-Acceptor Copolymers for Photovoltaic Application" *Macromolecules* **2011**, 44, 6370-6381.
38. **Yingfeng Tu**,* Zhenping Cheng, Zhengbiao Zhang, Jian Zhu, Wei Zhang, Nianchen Zhou, Peihong Ni, Xiulin Zhu* "Mechanism Study and Molecular Design in Controlled/"Living" Radical Polymerization" *Science China-Chemistry* **2010**, 53, 1605-1619.
39. **Yingfeng Tu**, Matthew J. Graham, Ryan M. Van Horn, Erqiang Chen, Xinhe Fan, Xiaofang Chen, Qifeng Zhou,* Xinhua Wan,* Frank W. Harris, Stephen ZD. Cheng* "Controlled organization of self-assembled rod-coil block copolymer micelles" *Polymer* **2009**, 50, 5170-5174.
40. **Yingfeng Tu**, Xinhua Wan, Hailiang Zhang, Xinhe Fan, Dongning Lu, Xiaofang Chen, Qifeng Zhou* "Self-assembly of rod-coil diblock copolymers influence of the rod length" *Chinese Journal of Polymer Science* **2003**, 21, 569-573.
41. **Yingfeng Tu**, Xinhua Wan, Hailiang Zhang, Xinhe Fan, Xiaofang Chen, Qifeng Zhou,* Kinchiu Chau "Self-assembled nanostructures of rod-coil diblock copolymers with different rod length" *Macromolecules* **2003**, 36, 6565-6569.
42. **Yingfeng Tu**, Xinhua Wan, Dong Zhang, Qifeng Zhou, Chi Wu* "Self-assembled nanostructure of a novel coil-rod diblock copolymer in dilute solution" *Journal of the American Chemical Society* **2000**, 122, 10201-10205.
43. Wan, XH.; **Tu, YF.**; Zhang, D.; Zhou, Q.-F. "Living free radical synthesis of novel rod-coil diblock copolymer with polystyrene and mesogen-jacketed liquid crystal polymer segments" *Chinese Journal of Polymer Science* **1998**, 16, 377-380.