

何林李 博士 教授

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教育背景

- 2008年04月-2011年03月 博士研究生, 浙江大学物理系, 理学博士
- 2006年09月-2008年03月 硕士研究生, 浙江大学物理系, 理学硕士
- 2002年09月-2006年07月 本科, 温州大学物理系, 理学学位

经历

工作经历

- 2020年12月-至今 教授, 硕士生导师, 数理学院副院长
- 2014年12月-2020年12月 副教授, 硕士生导师, 数理学院副院长
- 2011年03月-2014年12月 讲师, 硕士生导师

学术交流经历

- 2015年08月-2016年02月 访问学者, 美国密苏里大学哥伦比亚分校物理系
- 2013年06月-2013年08月 助理研究员, 浙江大学物理系

教学经历

- 2011年09月-至今 讲授课程
 - 理论力学(本科生)
 - 大学物理(本科生)
 - 计算物理(研究生)
 - 分子模拟(研究生)

研究方向

1. 研究的专业领域：高分子凝聚态物理
2. 主要研究方向：目前主要从事高分子理论与模拟研究。采用自洽场理论和分子动力学模拟方法研究嵌段共聚物、聚合物/纳米颗粒等体系在外界环境诱导下的自组装行为、结构与性能关系、以及表面改性。

荣誉和奖励

1. 浙江省首批“高校领军人才培养计划”青年拔尖人才(2020)
2. 2019年浙江省科技进步奖一等奖(3/10、2020)
3. 温州市重大人才工程“青年拔尖人才”(2019)
4. 温州市“青年拔尖人才”(2019)
5. 2017年中国机械工业技术奖二等奖(4/10、2017)
6. 温州市“551人才工程”第二层次(2016)
7. 温州大学步青教学奖(2019)
8. 温州大学首届新潮学者(2017)

主持项目

2017-2021 复杂高分子/纳米粒子体系相结构、动力学及力学性能的模拟研究

国家自然科学基金(面上项目), (21674082)

2012-2015 聚合物/纳米棒体系的非平衡态动力学研究

国家自然科学基金(青年项目), (21104060)

2019-2022 高分子纳米复合体系界面行为、结构与性能的研究,

浙江省自然科学基金(一般项目), (LY19B040006)

2015-2018 环形刚柔嵌段共聚物的自组装及动力学行为的研究

浙江省自然科学基金(一般项目), (LY15B040005)

2014-2016 纳米棒/聚合物复合材料的自组装行为及其光电性能的研究

温州市科技计划项目, (G20140054)

学术论文

- [1] **Linli He**, Linxi Zhang, and Haojun Liang, The effects of nanoparticles on the lamellar phase separation of diblock copolymers. *Journal of Physical Chemistry B*, 112, 4194(2008).
- [2] **Linli He** and Linxi Zhang. The effects of patterned surfaces on the phase separation for diblock copolymers. *Chinese Journal of Polymer Science*, 27, 307(2009).
- [3] **Linli He**, Linxi Zhang, and Haojun Liang Microdomain Morphology of Lamella-Forming Diblock Copolymer Confined in a Thin Film *Journal of Polymer Science: Part B: Polymer Physics*, 9, 1(2009).
- [4] **Linli He**, Linxi Zhang, and Haojun Liang, Cooperative surface-induced self-assembly of symmetric diblock copolymers confined films with embedded nanorods. *Polymer*, 50, 721(2009)
- [5] **Linli He**, Linxi Zhang, Agen Xia, and Haojun Liang, Effect of nanorods on the mesophase structure of diblock copolymers. *The Journal of Chemical Physics*, 130, 144907(2009).
- [6] **Linli He**, Linxi Zhang, Hongping Chen, and Haojun Liang, The phase behaviors of cylindrical diblock copolymers and rigid nanorods' mixtures. *Polymer*, 50, 3403(2009).
- [7] **Linli He**, Linxi Zhang, and Haojun Liang, Mono- or bidisperse nanorods mixtures in diblock copolymers. *Polymer*. 51, 3303(2010).
- [8] **Linli He**, Linxi Zhang, Yisheng Ye, and Haojun Liang, Solvent-induced self-assembly of polymer-tethered nanorods. *Journal of Physical Chemistry B*. 114, 7189(2010).
- [9] **Linli He**, Zhengquan Pan, Linxi Zhang, and Haojun Liang, Microphase transitions of block copolymer/nanorod composites under shear flow. *Soft. matter*, 7, 1147(2011).
- [10] Zhengquan Pan, **Linli He***, Linxi Zhang, and Haojun Liang, The dynamic behaviors of diblock copolymer/nanorod mixtures under equilibrium and nonequilibrium conditions. *Polymer*, 52, 2711 (2011).
- [11] **Linli He***, Shibei Li, Linxi Zhang. Phase Behaviors of Diblock Copolymer/Nanorod Composites under Oscillatory Shear Flow. *Journal of Applied Polymer Science*, 127, 4470–4482, 2013
- [12] **He Lin-Li**, Zhang Rui-Fen and Ji Yong-Yun. Effect of shear on the symmetric diblock copolymer/nanorod mixture: A dissipative particle dynamics study. *Chin. Phys. B*. 2, 088301(2012)
- [13] Bin Yuan, **Linli He***, Linxi Zhang. Magnetic-Induced Coil-Globule Transition for Polyelectrolytes. *Journal of Applied Polymer Science*, 126, 1754 (2012)
- [14] **Linli He***, Zenglei Chen, Ruifen Zhang, Linxi Zhang, and Zhouting Jiang. Self-assembly of cyclic rod-coil diblock diblock copolymers. *The Journal of Chemical Physics*, 138, 094907 (2013)
- [15] Zenglei Chen, Xianghong Wang, Linxi Zhang, **Linli He***. Vesicles from the self-assembly of coil-rod-coil triblock copolymers in selective solvents *Polymer* 5, 52921 (2014)
- [16] Huihui Wu, **Linli He***, Xianghong Wang, Yanwei Wang and Zhouting Jiang. Liquid crystalline assembly of rod-coil diblock copolymer and homopolymer blends by dissipative particle dynamics simulation *Soft Matter*, 10, 6278(2014).
- [17] Dong Zhang, **Lilin He***, and Linxi Zhang* Ordered structures of small numbers of nanorods

- induced by semiflexible star polymers. *The Journal of Chemical Physics*, 141, 104906 (2014).
- [18] Linli He*, Zhang Dong, Linxi Zhang. Selective Adsorption Behavior of Polymer at the Polymer–Nanoparticle Interface. *Journal of Polymer Science: Part B: Polymer Physics*. 2016, 54, 1829–1837.
- [19] Wenping Zhang, Xianghong Wang, Linli He*. Aggregation behavior of cyclic rod-coil diblock copolymers in selective solvents. *Chinese Journal of Polymer Science*, 2016, 34(4), 420-430.
- [20] Xiaowei Qiang, Xianghong Wang, Yongyun Ji, Shibei Li* and Linli He*, Liquid-Crystal Self-Assembly of Lipid Membranes on Solutions: a Dissipative Particle Dynamic Simulation Study. *Polymer*, 2017. 115: 1-11.
- [21] Yanyan Wang, Qingliang Song, and Linli He*, Liquid-crystal Assembly of Semiflexible-coil/Homopolymer Blends: a Dissipative Particle Dynamics Study, *Chinese Journal of Polymer Science*, 2018, 36, 1200–1206.
- [22] Qingliang Song, Yongyun Ji, Shibei Li, Xianghong Wang and Linli He*, Adsorption Behavior of Polymer Chain with Different Topology Structure at the Polymer-Nanoparticle Interface, *Polymers* 2018, 10, 590.
- [23] Yunfeng Hua, Ke Li, Xiaolin, Zhou, Linli, He*, Linxi, Zhang*. An attraction-repulsion transition of force on wedges induced by active particles. *Soft. matter*, 14, 25, 5205-5212, 2018.
- [24] Zhou, Xiaolin; Guo, Fuchen; Li, Ke, Linli, He*, Linxi, Zhang*. Entropy-Induced Separation of Binary Semiflexible Ring Polymer Mixtures in Spherical Confinement. *Polymers*, 11, 1992, 2019.
- [25] Liu, Lin; Li, Ke; Zhou, Xiao-Lin; Linli, He*, Linxi, Zhang*. Controllable laning phase for oppositely driven disk systems. *Chinese Physics B*, 28, 120501, 2019.
- [26] Ke Li, Fuchen Guo, Xiaolin, Zhou, Xianghong, Wang, Linli, He*, Linxi, Zhang*. An attraction–repulsion transition of force on two asymmetric wedges induced by active particles, *Scientific Reports*. 10, 1, 2020.
- [27] Wang, Dan; Li, Feng-qing; Wang, Xiang-hong, Li, Shi-ben, He, Lin-li*. Effects of chain stiffness and shear flow on nanoparticle dispersion and distribution in ringpolymer melts. *Journal of Zhejiang University-SCIENCE A*. 21, 229, 2020
- [28] Fuchen Guo, Ke Li, Jiabin Wu, Linli, He*, Linxi, Zhang*. Effects of Topological Constraints on Penetration Structures of Semi-Flexible Ring Polymers, *Polymers*, 12, 2659, 2020.
- [29] Ke Li, Yaxin Wang, Fuchen Guo, Linli He* and Linxi Zhang* Sliding dynamics of multi-rings on semiflexible polymer in poly[n]catenanes, *Soft Matter*, DOI:10.1039/d0sm02084b, 2021
- [30] Zhiyong Yang, Linli He*, Linxi Zhang*, Perfect helical structure of semiflexible polyelectrolyte chain confined in a cylinder, *Polymer*, 218, 123499, 2021.

指导硕士生

已培养研究生 6 名，目前指导在读研究生 5 名。(更新于 2021.03)