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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：**目前主要从事软物质理论与模拟研究。如采用自洽场理论和分子动力学模拟等模拟方法研究软物质体系在外界环境诱导下的相行为、动力学过程、结构与性能关系、以及表面改性。

荣誉和奖励

1. 浙江省“万人计划”青年拔尖人才(2023年)
2. 温州市科技创新和人才工作成绩突出个人(2022年)
3. 浙江省首批“高校领军人才培养计划”青年拔尖人才(2020年)
4. 2019年浙江省科技进步奖一等奖(3/10、2020年)
5. 温州市重大人才工程“青年拔尖人才”(2019年)
6. 2017年中国机械工业技术奖二等奖(4/10、2017年)
7. 温州市“551人才工程”第二层次(2016年)
8. 温州大学步青教学奖“最佳教学”“教学新秀”(2019, 2022年)
9. 温州大学首届南湖学者、瓯江特聘教授(2017、2020年)

主持项目

2023-2026 轮烷/滑动轮凝胶构象、动力学与力学性能的模拟研究

国家自然科学基金(面上项目), (22273067)

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

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.

已培养研究生 10 名, 目前指导在读研究生 7 名。(更新于 2023.03)