

# 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

## 工作经历

- 2024年06月-至今 教授、博导、温州大学教务处处长
- 2020年12月-2024年05月 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。采用自洽场理论和分子动力学等模拟方法研究聚合物/纳米颗粒体系、机械互锁类聚合物的相结构和动力学及力学性能，以及活性物质的动力学行为。

## 荣誉和奖励

1. 浙江省院士专家结对培养青年英才计划(2024 年)
2. 中国发明创业奖创新奖二等奖(2024 年, 第一)
3. 浙江省“万人计划”青年拔尖人才(2023 年)
4. 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 (2020 年、3/10)
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 (2017 年、4/10)
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”“教学名师”(2019、2022、2024 年)
9. 温州大学首届新湖学(2017 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)

2024-2025 软物质学科和生物物理交叉前沿讲习班

国家自然科学基金(理论物理专款科技活动项目), (12447207)

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

Energy Dissipation and Toughening of Covalent Networks via a Sacrificial Conformation Approach, *Angewandte Chemie International Edition*

- [1] Ming Hou, Mengjie Jia, Rui Qi, Zhide Zhang, [Linli He\\*](#), Tianwen Bai, Chen Bao\*, Guanyinsheng Qiu\*, Ferric nitrene-promoted anti-Markovnikov ring-opening of epoxides and nucleophilic functionalization of benzylic C–H bonds under photo-irradiation, *Chemical Communications*. 7, 2025
- [2] Hao Wang, Zhiyou Wei, Zhiwei Liu, Bin Zheng, Zhaoming Zhang, Xuzhou Yan, [Linli He\\*](#), Tao Li,\* Dong Zhao\*, Energy Dissipation and Toughening of Covalent Networks via a Sacrificial Conformation Approach, *Angewandte Chemie*. 4, 64, 2025
- [3] Shimin Xie, Shuwang Tang, Ming Hou, Wenlin Xie\*, Meng Guan, Tianwen Bai, [Linli He\\*](#), Guanyinsheng Qiu\*, Photoredox/Iron Dual-Catalysis-Enabled [4+2] Cyclization of Acyl Nitrene with Alkynes, *Organic Letters*. 26, 51, 2024
- [4] Jun Li, Ziluo Zhang, Zhanglin Hou, Kento Yasuda, [Linli He\\*](#), Shigeyuki Komura\*, Time-correlation functions of stochastic three-sphere micromachines, *Physical Review E*. 110, 044603, 2024
- [5] Ke Li, [Linli He\\*](#), Linxi Zhang\*, Sliding dynamics of ring chain on graft polymer in rotaxane, *Polymer*. 292, 126632, 2024.
- [6] Shenhua Jiang, Jieli Wang, Ying Zeng, Zhiyuan Zhao, Xing Huang, Shigeyuki Komura, Fangfu Ye, [Linli He\\*](#), Kun Zhao\* and Zhanglin Hou\*. Five scenarios revealed by hard

- truncated rhombs for an expanded picture of two-dimensional melting. *Cell Reports Physical Science*. 4, 101627, 2023.
- [7] Maoji Liu, Zhanglin Hou, Hiroyuki Kitahata, **Linli He\***, and Shigeyuki Komura\*. Non-reciprocal Phase Separations with Non-conserved Order Parameters. *Journal of the Physical Society of Japan*. 92, 093001, 2023.
- [8] Chenrong Liu\*, Po Chen, **Linli He\***, and Fangfang Xu\*. Ground state properties of multi-component bosonic mixtures: a Gutzwiller mean-field study. *Physical Review A*. 108(1): 013309, 2023.
- [9] Xiao-yue Han, Xiao-lin Zhou\*, Xiang-hong Wang\*, and **Lin-li He\***. Conformation and Dynamics of Ring Polymer Chains under Cylindrical Confinement. *Macromol. Chem. Phys.* 224, 2300131, 2023.
- [10] 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.
- [11] Zhiyong Yang, **Linli He\***, Linxi Zhang\*, Perfect helical structure of semiflexible polyelectrolyte chain confined in a cylinder, *Polymer*, 218, 123499, 2021.
- [12] 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.
- [13] 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
- [14] 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.
- [15] Liu, Lin; Li, Ke; Zhou, Xiao-Lin; **Linli, He\***, Linxi, Zhang\*. Controllable laning phase for oppositely driven disk systems. *Chinese Physics B*, 28, 12 0501, 2019.
- [16] 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.
- [17] 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.
- [18] Qingliang Song, Yongyun Ji, Shibin Li, Xianghong Wang and **Linli He\***, Adsorption Behavior of Polymer Chain with Different Topology Structure at the Polymer-Nanoparticle Interface, *Polymers* 2018, 10, 590.
- [19] 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.
- [20] Xiaowei Qiang, Xianghong Wang, Yongyun Ji, Shibin 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] **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.
- [22] 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.
- [23] 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)
- [24] 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).
- [25] Dong Zhang, **Linli He\***, and Linxi Zhang\* Ordered structures of small numbers of nanorods induced by semiflexible star polymers. *The Journal of Chemical Physics*, 141, 104906 (2014)
- [26] **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
- [27] **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)
- [28] **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)
- [29] Bin Yuan, **Linli He\***, Linxi Zhang. Magnetic-Induced Coil-Globule Transition for Polyelectrolytes. *Journal of Applied Polymer Science*, 126, 1754 (2012)
- [30] **Linli He**, Zhengquan Pan, Linxi Zhang, and Haojun Liang, Microphase transitions of block copolymer/nanorod composites under shear flow. *Soft. matter*, 7, 1147(2011).
- [31] 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).
- [32] **Linli He**, Linxi Zhang, and Haojun Liang, Mono- or bidisperse nanorods mixtures in diblock copolymers. *Polymer*. 51, 3303(2010).
- [33] **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).
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- [35] **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).
- [36] **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)
- [37] **Linli He**, Linxi Zhang, Aigen Xia, and Haojun Liang, Effect of nanorods on the mesophase structure of diblock copolymers. *The Journal of Chemical Physics*, 130, 144907(2009).
- [38] **Linli He**, Linxi Zhang, Hongping Chen, and Haojun Liang, The phase behaviors of cylindrical diblock copolymers and rigid nanorods' mixtures. *Polymer*, 50, 3403(2009).
- [39] **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).

已培养研究生 17 名，目前指导在读研究生 12 名。(更新于 2025.02)