Xinxiang Chen

Curriculum Vitae

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Personal Data

Name	Xinxiang Chen
Gender	Male
Date of Birth	May 18, 1994
Place of Birth	Fujian, China
Nationality	Chinese

Educational Background

2017.9-2023.1 **Ph.D**, *Department of Physics, Beijing Normal University, Beijing, China*.
- **Subject**: Soft Matter Physics
- **Supervisor**: *Prof. Dadong Yan*

2012.9 - 2016.6 **Bsc**, *School of Mathematics and Statistics, Lanzhou University, Lanzhou, China*.
- **Subject**: Mathematics and Applied Mathematics
- **Supervisor**: *Prof. Dun Zhao*

Postdoc Background

2023.3-At present **Postdoc**, *Institute of Physics, University of Mainz, Mainz, Germany*.
- **Hoster**: *Prof. Friederike Schmid*

Research Interests

Soft Matter
- Liquid-liquid Phase Separation and Sol-Gel Transition in RNA-Protein Solution
- The Reversible Crosslinking Process in the Associative Polymer Solution
- The Dynamics of Phase Separation in Polymer Blends
- The Swelling and Elastic Properties of Polymer Network System

Computer Skill

Language	C/C++, Fortran, Python
Software	Matlab, Mathematica, HOOMD-BLUE
Simulation Method	Self-Consistent Field Theory (SCFT), Dynamic Self-Consistent Field Theory (DSCFT), Molecular Dynamics (MD) simulation, Monte Carlo (MC) method

Publications

1. **Xinxiang Chen**, Jude Ann Vishnu, Pol Besenius, Julian Konig, Friederike Schmid, Sol–Gel Transition in Heteroassociative RNA-Protein Solutions: A Quantitative Comparison of Coarse-Grained Simulations and the Semenov–Rubinstein Theory, *Macromolecules*, 58(6), 3331–3342 (2025).
2. **Xinxiang Chen**, Dadong Yan, Shuanhu Qi, Swelling and mechanical response of regular irreversible polymer networks with different topological microstructures, *Macromolecules*, 55(19), 8685–8698 (2022).

3. **Xinxiang Chen**, Shuanhu Qi, and Dadong Yan, Reversible crosslinking facilitates the formation of critical nucleus in binary polymer blends, *The Journal of Chemical Physics* 156, 124903 (2022).
4. **Xinxiang Chen**, Shuanhu Qi, Xinghua Zhang, and Dadong Yan, Influence of Small-Scale Correlation on the Interface Evolution of Semiflexible Homopolymer Blends, *ACS Omega* 5, 7593-7600 (2020).
5. Ting-Na Shao, Zi-Tao Zhang, Yu-Jie Qiao, Qiang Zhao, Hai-Wen Liu, **Xin-xiang Chen**, Wei-Min Jiang, Chun-Li Yao, Xing-Yu Chen, Mei-Hui Chen, Rui-Fen Dou, Chang-Min Xiong, Guang-Ming Zhang, Yi-Feng Yang, Jia-Cai Nie, Kondo scattering in underdoped $Nd_{1-x}Sr_xNiO_2$ infinite-layer superconducting thin films, *National Science Review*, 10(11), nwad112 (2023).
6. Jianchao Meng, **Xinxiang Chen**, Tingna Shao, Mingrui Liu, Weimin Jiang, Zitao Zhang, Changmin Xiong, Ruifen Dou, Jiacai Nie, Doping-enhanced robustness of anomaly-related magnetoresistance in WTe2$\pm\alpha$ flakes, *Chinese Physics B*, 32(4), 047502 (2023).
7. Jianchao Meng, **Xinxiang Chen**, Mingrui Liu, Weimin Jiang, Zhe Zhang, Jingzhuo Ling, Tingna Shao, Chunli Yao, Lin He, Ruifen Dou, Changmin Xiong and Jiacai Nie, Large linear magnetoresistance caused by disorder in WTe2–δ thin film., *Journal of Physics: Condensed Matter* 32, 355703 (2020).