

# Changhao Li

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## Education      **2017-2023      Fudan University**

**Ph.D.**      Polymer Chemistry and Physics

Title of Dissertation: “*Nonlinear Dynamics and Nonequilibrium Thermodynamics of Reaction-Diffusion Processes in Life Modelling*” (in Chinese)

## **2013-2017      Fudan University**

**B.E.**      Polymer Materials and Engineering

Research Interest      Life Physics, Nonequilibrium Thermodynamics & Statistical Physics,  
Active Matter Physics, Life-related Reaction-Diffusion Equations,  
Soft Matter Physics

## Experience      **Teaching Assistant at Fudan University**

2020.2-2020.7 Polymer Physics

2018.9-2019.1 Physical Chemistry: Kinetics and Electrochemistry

2018.2-2018.7 Polymer Physics

2017.2-2018.1 Physical Chemistry Experiments

Languages and Skills      English (fluent)

Julia, Python, Fortran, L<sup>A</sup>T<sub>E</sub>X

## Publications      **2024**

**3. Changhao Li**, Jianfeng Li\*, Hongdong Zhang, Yuliang Yang and Zhen-Gang Wang\*  
“*Scale Dependence of State Variable and its Dynamics in the Mesoscopic World*”  
( to be submitted )

**2. Changhao Li**, Jianfeng Li\*, Hongdong Zhang, Yuliang Yang\*  
“*A Dual-Exponential Flux-Force Relation for Irreversible Thermodynamic Processes*”  
( to be submitted )

**1.**Junpeng Xiong, **Changhao Li\***, Jianfeng Li\*  
“*Application and Perspectives of Simulation Methods Based on Field Theory in Soft Matter*”  
Acta Polymerica Sinica, doi: 10.11777/j.issn1000-3304.2024.24035(in Chinese)

## Publications **2023**

**2.** Chunfang Wu, Chao Jin, Wei Zhang, Xiang Cui, **Changhao Li**, Zirui Zhu, Yixin Liu, Peng Liu, Hongbin Zhang, Hongdong Zhang\* and Yuliang Yang

*“Exploration on the Regulation of Writing Performance through Pickering Emulsions-Coated Handmade Xuan Paper”*

Cellulose, 2023

**1.** **Changhao Li**, Jianfeng Li\*, Hongdong Zhang, Yuliang Yang\*

*“A Systematic Study On Immiscible Binary Systems Undergoing Thermal/Photo Reversible Chemical Reactions”*

Phys. Chem. Chem. Phys., 2023, **25**(3), 1642-1648

## **2022**

**2.** **Changhao Li**, Jianfeng Li\*, Hongdong Zhang, Yuliang Yang\*

*“A Feynman Path Integral-like Method for Deriving Reaction–Diffusion Equations”*

Polymers, 2022, **14**(23), 5156.

**1.** **Changhao Li**, Jianfeng Li\* and Yuliang Yang\*

*“First-Principle Derivation of Single-Photon Entropy and Maxwell–Jüttner Velocity Distribution”*

Entropy, 2022, **24**(11): 1609.