

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

Research assistant at Fudan University
2023.7-2024.1 Department of Macromolecular Science

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^AT_EX

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, **31**, 1237–1252.

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.