Changhao Li

Fudan University
Department of Macromolecular Science
Shanghai 200438, China

changhao.li.cn@gmail.com
changhaolifdu.github.io
Phone: (+86) 186-1683-9936

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

Publications

2023
4. 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)
3. Changhao Li, Jianfeng Li*, Hongdong Zhang, Yuliang Yang*
"A Dual-Exponential Flux-Force Relation for Irreversible Thermodynamic Processes"
(to be submitted)
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.

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, LaTeX