

Dr. Benke Li

Basic Information

Research Interests: Design and Improvement of Rheology Setups.
Nonlinear Shear and Extensional Rheology.
Processing-structure-property Relationship of Complex Fluids.
Dynamics of Polymeric Materials.
Interface of Nanoparticles.

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ResearchGate <https://www.researchgate.net/profile/Benke-Li>
GitHub <https://github.com/libenke>

Work Experiences

2023.06 ~ Present Postdoc. in FORTH, Greece. Advisor: Prof. Dimitris Vlassopoulos.
2021.01 ~ 2023.06 Postdoc. in Shanghai Jiao Tong University & Kingfa Co. CN. Joint-Advised by Dr. Xianbo Huang & Prof. Wei Yu.

Educations

2013.09 ~ 2020.12 Ph.D. of Chemistry in Department of Polymer Science and Engineering, Shanghai Jiao Tong University. Advisor: Prof. Wei Yu.
2009.09 ~ 2013.06 B.E. in Department of Polymer Science and Engineering, South China University of Technology.

Skills

- Capable of using CAD software to design rheology equipment. (*Journal of Rheology*, 2020, 64, 177-190.)
- Capable of solving complicated rheologic models numerically. (<https://github.com/libenke/FiberRheoModels>)
- Figure processing and analysis by both MATLAB and Python. (<https://github.com/libenke/VideoFiberTrack> & https://github.com/libenke/CT_FiberSegentation)

Selected Publications

- [1] **Benke Li**, Wei You, Li Peng, Chuanhui Zhang, Xianbo Huang*, Wei Yu*, "Role of Monomer Sequence in the Crystallization and Rheology of PBAT". *Polymer*, **2023**, accepted.
- [2] **Benke Li**, Wei You, Li Peng, Xianbo Huang*, Wei Yu*, "Revealing the Shear Effect on the Interfacial Layer in Polymer Nanocomposites through Nanofiber Reorientation". *Macromolecules* **2023**, 56(8) 3050-3063.
- [3] **Benke Li**, Ying Guo, Paul Steeman, Bulters Markus, Wei Yu*. "Wall effect on the rheology of short-fiber suspensions under shear", *Journal of Rheology* **2021**, 65(6), 1169-1185.
- [4] **Benke Li**, Ying Guo, Paul Steeman, Bulters Markus, Wei Yu*. "Shear-induced breakdown and agglomeration in nanoparticles filled polymer: the shift of phase boundary and kinetics", *Journal of Rheology* **2021**, 65(3), 291-309.
- [5] **Benke Li**, Wei Yu*, Xiao Cao, Quan Chen. "Horizontal extensional rheometry (HER) for low viscosity polymer melts", *Journal of Rheology* **2020**, 64(1), 177-190.

Patents

- [1] **Benke Li**, Wei Yu. "A new extensional rheometer". *CN Patent*, ZL201510430435.4. **2018**.
- [2] **Benke Li**, Xianbo Huang, Li Peng, Pingxu Chen, Nanbiao Ye, Zhongfu Luo, Bo, Yang, Yanan Chen, Wei Yu. "A non-intervened online-observation equipment to record the flow filed of fluids during injection flow": *CN Patent*, ZL2023101897210.**2023**.