

Publication List

1. “Spherulites of supramolecular polymers formed from undercooled melts, and their adhesive properties”
Takuma Shimada, Yuichiro Watanabe, Tsutomu Furuya, Koji Nishida, Sadaki Samitsu, Yutaka Wakayama, and Kazunori Sugiyasu
Chem. Lett., **53**, upad030 (2024). doi: 10.1093/chemle/upad030
2. “Comparison of Gels Synthesized by Controlled Radical Copolymerization and Free Radical Copolymerization: Molecular Dynamics Simulation”
Tsutomu Furuya and Tsuyoshi Koga
Soft Matter, **20**, 1164–1172, (2024). doi: 10.1039/d3sm01431b
(selected for front cover. doi: 10.1039/d4sm90019g)
3. “Molecular Simulation of Polymer Gels Synthesized by Free Radical Copolymerization: Effects of Concentrations and Reaction Rates on Structure and Mechanical Properties”
Tsutomu Furuya and Tsuyoshi Koga
Polymer, **279**, 126012, (2023). doi: 10.1016/j.polymer.2023.126012
4. “Small-Angle Light Scattering Instrument with Wide Scattering Vector and Wide Dynamic Ranges”
Tsutomu Furuya, Hiroyuki Kojima, Koji Nishida, Yoshiki Fukutani, Ayaka Mutaguchi, and Tsuyoshi Koga
J. Fiber Sci. Technol., **79**, 32–46, (2023). doi: 10.2115/fiberst.2023-0003
5. “Effects of Primary Structure of Reactive Polymers on Network Structure and Mechanical Properties of Gels”
Tsutomu Furuya and Tsuyoshi Koga
Macromol. Theory Simul., **31**, 2200044, (2022). doi: 10.1002/mats.202200044
(selected for front cover. doi: 10.1002/mats.202270011)
6. “Molecular Simulation of Networks Formed by End-Linking of Tetra-Arm Star Polymers: Effects of Network Structures on Mechanical Properties”
Tsutomu Furuya and Tsuyoshi Koga
Polymer, **189**, 122195, (2020). doi: 10.1016/j.polymer.2020.122195
7. “Effects of Added Physical Cross-Linkers on Mechanical Properties of Polymer Networks”
Tsutomu Furuya, Keita Yamamoto, and Tsuyoshi Koga
Macromol. Theory Simul., **28**, 1800042, (2019). doi: 10.1002/mats.201800042
8. “Molecular Simulation of Structures and Mechanical Properties of Nanocomposite Networks Consisting of Disk-shaped Particles and Polymers”
Tsutomu Furuya and Tsuyoshi Koga
Soft Matter, **14**, 8293–8305 (2018). doi: 10.1039/c8sm01437j
9. “Molecular Simulation of Structure Formation and Rheological Properties of Mixtures of Telechelic and Monofunctional Associating Polymer”

Tsutomu Furuya and Tsuyoshi Koga

J. Polym. Sci. Part B: Polym. Phys., **56**, 1251-1264 (2018). doi: 10.1002/polb.24716

(selected for front cover. doi: 10.1002/polb.24494)

10. “Theoretical Study of Inclusion Complex Formation of Cyclodextrin and Single Polymer Chain”

Tsutomu Furuya and Tsuyoshi Koga

Polymer, **131**, 193-201, (2017). doi: 10.1016/j.polymer.2017.10.031

11. “Effects of Added Surfactants on Thermoreversible Gelation of Associating Polymer Solutions”

Tsutomu Furuya, Tsuyoshi Koga, and Fumihiko Tanaka

J. Polym. Sci. Part B: Polym. Phys., **42**, 733-751, (2004). doi: 10.1002/polb.10722