

Journal publications

1. Aritra Santra, Michel Orsi, Bulbul Chakraborty, Jeffrey F Morris, *Rigid clusters in shear-thickening suspensions: a nonequilibrium critical transition*, 2024, [arXiv:2401.15165](https://arxiv.org/abs/2401.15165)
2. Dominic Robe, Aritra Santra, Gareth McKinley, J Ravi Prakash, *Evanescent Gels: Competition Between Sticker Dynamics and Single-Chain Relaxation*, **Macromol.**, 2024, **57**, 4220-4235.
3. Nelya Malbranche, Aritra Santra, Bulbul Chakraborty and Jeffrey F. Morris, *Scaling analysis of shear thickening suspensions*, **Frontiers in Physics**, 2022, **10**, 946221. [doi: 10.3389/fphy.2022.946221](https://doi.org/10.3389/fphy.2022.946221)
4. Aritra Santra, and J. Ravi Prakash, *Universality of dilute solutions of ring polymers in the thermal crossover region between θ and athermal solvents*, **J. Rheol.**, 2022, **66**, 775-792.
5. Aritra Santra, B. Duenweg and J. Ravi Prakash, *Universal scaling and characterization of gelation in associative polymer solutions*, **J. Rheol.**, 2021, **65**, 549-582. (Featured article, selected for cover page)
6. Aritra Santra, Kiran Kumari, Ranjith Padinatheeri, B. Duenweg and J. Ravi Prakash, *Universality of the collapse transition of sticky polymers*, **Soft Matter**, 2019, **15**, 7876-7887.

Conferences

1. Aritra Santra and J. Ravi Prakash, *Universality of dilute ring polymer solutions*, **Compflu2023, 18-20 December, 2023, IIT Madras, Chennai, India.**
2. Aritra Santra, Gareth H. McKinley and J. Ravi Prakash, *Dynamic signatures of gelation in associative polymer solutions*, **The Society of Rheology 92nd Annual Meeting, 11-14 October 2021, Bangor, Maine, USA.**
3. Aritra Santra, Gareth H. McKinley and J. Ravi Prakash, *Dynamic signatures of gelation in associative polymer solutions*, **International Congress of Rheology, 14-17 December 2020, Rio de Janeiro, Brazil.**
4. Aritra Santra, B. Duenweg and J. Ravi Prakash, *Universal scaling in associative polymer solutions*, **Statistical Mechanics of Soft Matter Meeting, 16-17 December 2019, Adelaide, Australia.**