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Models of Polymer Physics for Biological System

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Deadline for manuscript submissions:
closed (5 January 2023)

Message from the Guest Editors

Dear Colleagues,

Polymer physics is a powerful tool for investigating several biological processes occurring in the cell. Indeed, models from polymer physics have a broad range of applications and have been successfully employed to study, for example, the three-dimensional structure of chromosomes at multiple scales, the phase-separation of protein aggregates, single-cell chromatin organization, DNA–protein interaction mechanisms and gene regulation.

The issue will cover a broad range of experimental, computational and theoretical studies based on polymer physics aiming to describe those aspects relevant to the cell. The research topics will also include molecular dynamics simulations, predictive methods, data analysis, meso-scale and coarse-grained polymer models, equilibrium and off-equilibrium processes and further applications. This issue will provide progress in and state-of-art applications of polymer physics to tackle specific and general questions arising in cell biology.

Dr. Andrea Maria Chiariello
Dr. Simona Bianco
Guest Editors

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Editor-in-Chief

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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