



## Multiscale Modeling of Complex Fluids and Soft Matter

Guest Editors:

**Dr. Paula Vasquez**

Department of Mathematics,  
University of South Carolina,  
Columbia, SC 29208, USA

**Dr. Michael Cromer**

School of Mathematical Sciences,  
Rochester Institute of  
Technology, Rochester, NY 14623,  
USA

Deadline for manuscript  
submissions:

**closed (30 August 2024)**

### Message from the Guest Editors

Dear Colleagues,

Complex fluids and soft matter are ubiquitous in many engineering and biological processes. The responses of these materials to macroscopically imposed fields are governed by their underlying microstructures and dynamics. Describing this behavior requires modeling methods, computational techniques, and experimental designs capable of resolving interactions across a wide range of temporal and spatial scales. Consequently, advances in modeling approaches and measurement techniques, together with faster computers and improved numerical methods, are opening doors to exciting new research areas within the field. Active researchers working on the modeling, analysis, and simulation of complex materials are invited to showcase their findings. This Special Issue will provide a look into the contemporary research directions in this rapidly developing and challenging multidisciplinary domain.

Dr. Paula Vasquez

Dr. Michael Cromer

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)