

NANOGE SPRING MEETING '21  
VIRTUAL SYMPOSIUM

# Self-Organization At All Scales

From Nano and Micro Structures to  
Functional Devices

## INVITED SPEAKERS

Marjolein Dijkstra  
Detlef Smilgies  
Cherie Kagan

Oleg Gang  
Sharon Glotzer  
Paul Braun

Isabel Pastoriza-Santos  
Guillermo Acuna  
Emiliano Cortés

Yadong Yin  
Mona Tréguer-Delapierre  
Laura Na Liu

**2021 MARCH 9-12 ONLINE**

Register now! Visit  
<https://www.nanoge.org/NSM21/home>  
to register and submit your abstract.

**ORGANIZERS:**

Dmitry Baranov  
Agustín Mihi  
Elena Shevchenko

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## DESCRIPTION

Scientists tirelessly discover new building blocks that span a range of length scales from molecules and clusters to nanocrystals and microparticles. The self-organization of these blocks is one of the most elegant and low-cost bottom-up methods to create new materials with a potentially unlimited range of tunable properties and to rejuvenate old ones. The focus of the symposium will be on the prospects of integrating self-organization into nanofabrication workflow, enabling the design of scalable functional devices. The symposium will cover the fundamental aspects and latest developments in theoretical and experimental studies of self-assembly processes, with special attention to the challenges of predictive material discovery using experimental and computational tools.

## TOPICS

- forces driving self-assembly across all scales
- materials discovery from theory, machine learning, and AI
- integration of self-organization into nanofabrication
- *in situ* characterization of the nanoparticle interactions
- emergent collective properties
- scalable functional devices by self-organization

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