

# Soft Matter

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### Cover

See Piero Baglioni et al., pp. 4165–4176.  
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### Inside cover

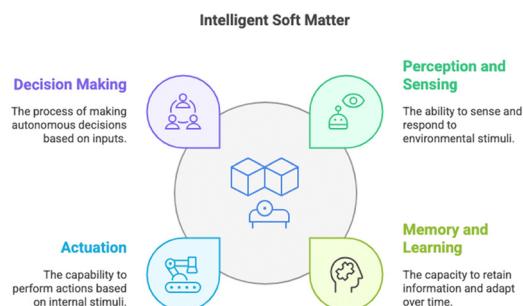
See Emiko Mouri et al., pp. 4146–4149. Image reproduced by permission of Emiko Mouri from *Soft Matter*, 2025, 21, 4146. Image credit: Ms. Rie Yamasaki.

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### Intelligent soft matter: towards embodied intelligence

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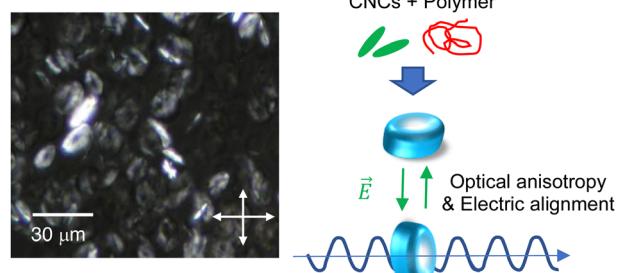


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### Multiple anisotropy of cellulose nanocrystals self-organized into disc-shaped particles

Emiko Mouri,\* Kenta Noma, Keito Hirayama, Ryohei Iwahisa, Satsuki Azuma and Teruyuki Nakato





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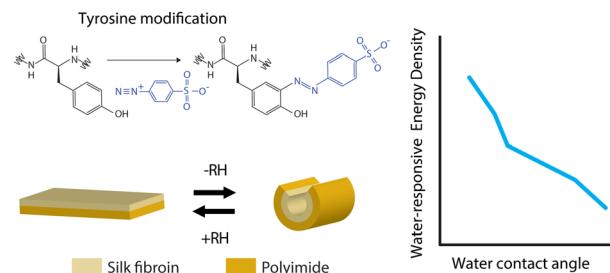


## COMMUNICATIONS

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**Modulating water-responsive actuation energy of regenerated silk fibroin via tyrosine modification**

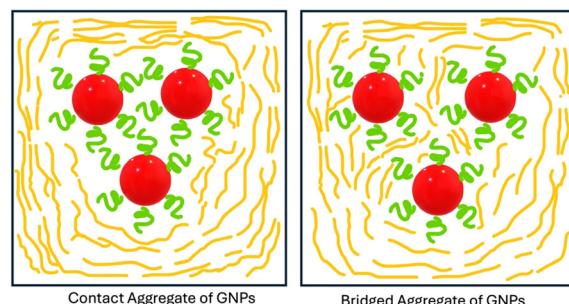
Maheen K. Khan, Vignesh Athiyarath, Darjan Podbevšek, Yeojin Jung, Seungri Kim, Yuchen Zhang, Gonca Kilavuz-Ecker, Raymond S. Tu and Xi Chen\*  
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**Thickening of liquids using copolymer grafted nanoparticles**

Prama Adhya, Sachin M. B. Gautham, Tarak K. Patra,\*  
 Manish Kaushal\* and Titash Mondal\*

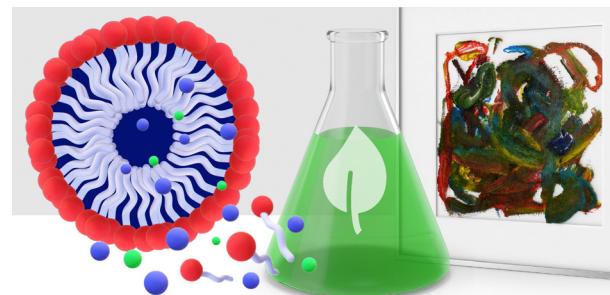


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**New perspectives on green and sustainable wet cleaning systems for art conservation**

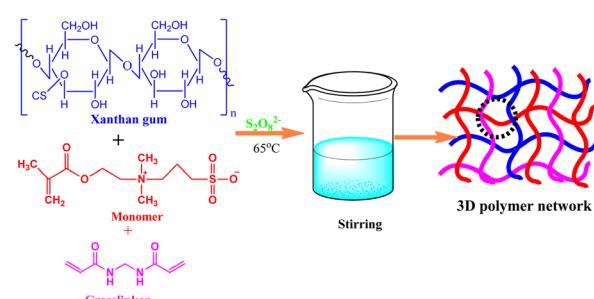
David Chelazzi, Romain Bordes, Andrea Casini,  
 Rosangela Mastrangelo, Krister Holmberg and  
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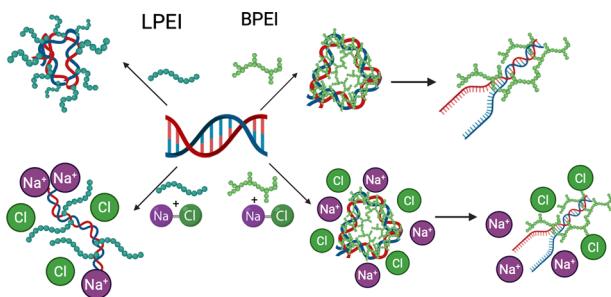
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Vikrant Sharma,\* Disha Kapil and Baljit Singh



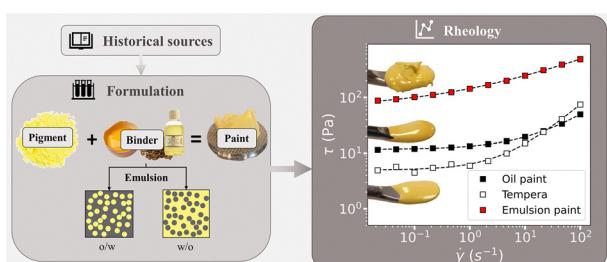
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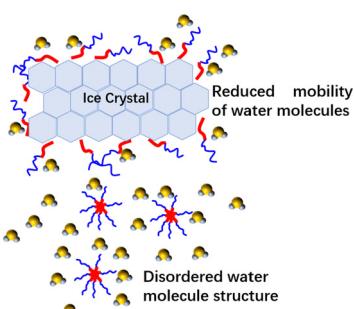
Rusul Mustafa, Danielle Diorio, Madeline Harper and David Punihaole\*

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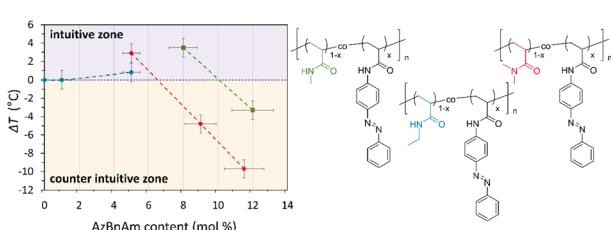
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René Steinbrecher, Peiran Zhang, Christine M. Papadakis, Peter Müller-Buschbaum, Andreas Taubert and André Laschewsky\*

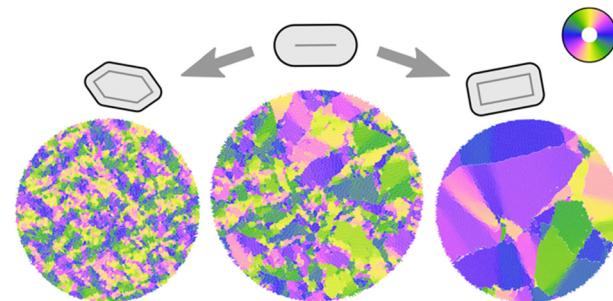


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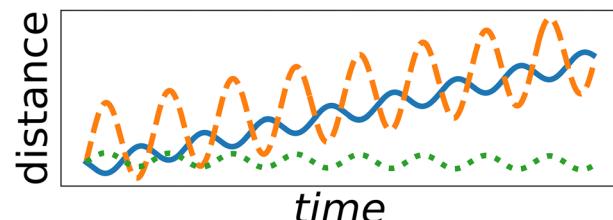
Jonas Isensee and Philip Bittihn\*



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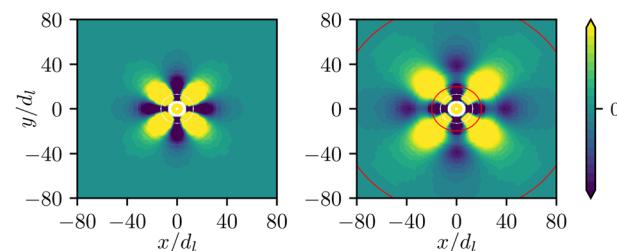
Reiner Kree\* and Annette Zippelius\*



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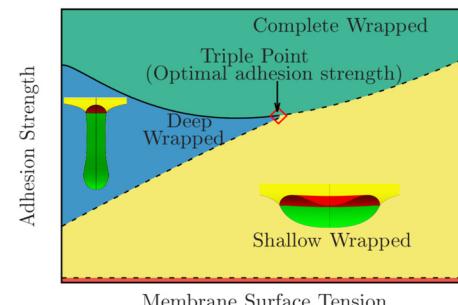
Niklas Grimm, Jörg Baschnagel, Alexander N. Semenov, Annette Zippelius and Matthias Fuchs\*



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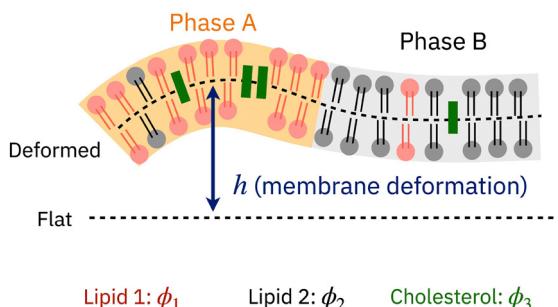
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Ajit Kumar Sahu, Rajkumar Malik and Jiarul Midya\*



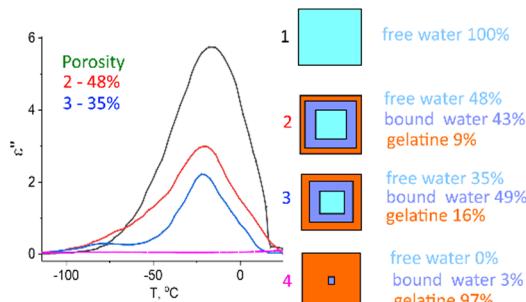
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Qiwei Yu and Andrej Košmrlj\*

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**Expression of concern: Substrate induced differentiation of human mesenchymal stem cells on hydrogels with modified surface chemistry and controlled modulus**

Mathieu Lanniel, Ejaz Huq, Stephanie Allen, Lee Buttery, Philip M. Williams and Morgan R. Alexander\*