

# RSC Applied Polymers

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### Cover

See Jason E. Bara *et al.*,  
pp. 336–346.

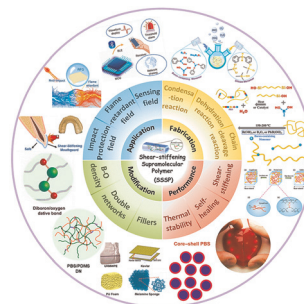
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from *RSC Appl. Polym.*, 2025,  
**3**, 336.

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### Shear-stiffening supramolecular polymers: fabrication, modification and application

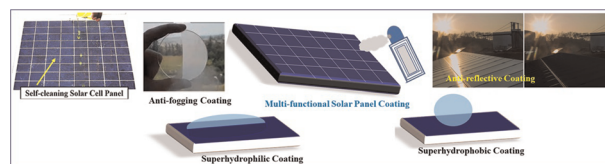
Nan Li, Shiyu Gu, Qi Wu\* and Jinrong Wu\*



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### High-performance multi-functional solar panel coatings: recent advances, challenges, strategies and industrial aspects

Anil Kumar Padhan,\* Vaishakhi Singh,\* Saptarshi Ray  
and Ravi Kumar Voolapalli



# RSC Applied Interfaces

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Fundamental questions  
Elemental answers

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### Tuning solvent strength can fractionate PVC into ultra-low molecular weight material with low dispersity

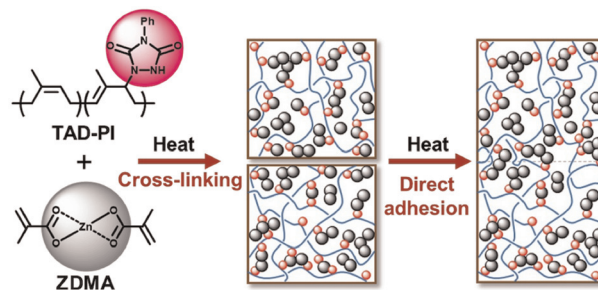
Ali Al Alshaikh, Jaewoo Choi, Feranmi V. Olowookere, Caira McClairen, Owen G. Lubic, Pravin S. Shinde, C. Heath Turner and Jason E. Bara\*



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### Triazolinedione-functionalized isoprene rubber composites with self-adhesion *via* cross-linking with zinc dimethacrylate

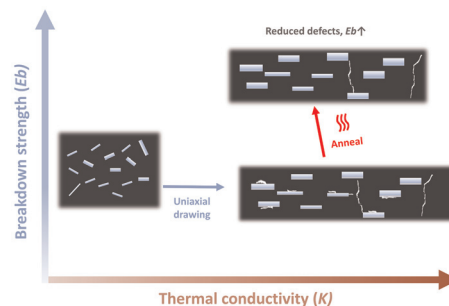
Kyohei Kotani,\* Yuji Kitamura, Katsuhiko Tsunoda, Akira Takahashi and Hideyuki Otsuka\*



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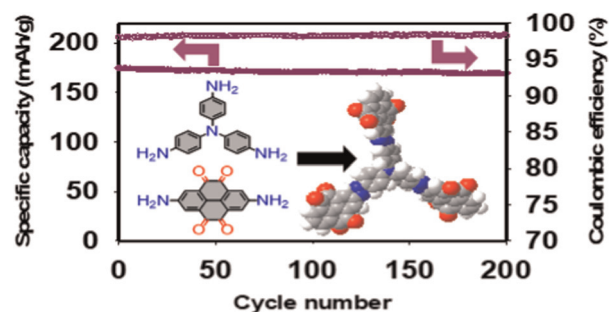
Xiangyan Yu, Qichen Zhou, Xiaoxiao Yu, Man Zhang, Coskun Kocabas, Han Zhang, Dimitrios G. Papageorgiou, Haixue Yan, Michael John Reece and Emiliano Bilotti\*



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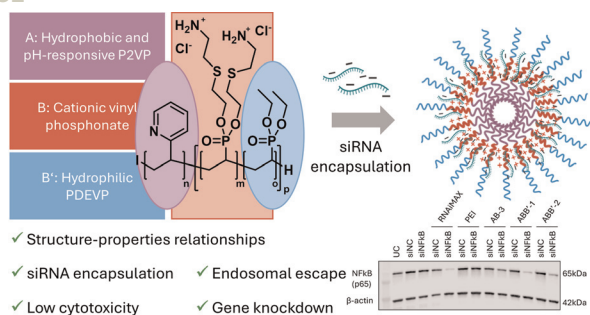
### Composites of azo-linked pyrene-tetraone porous organic polymers as cathodes for lithium-ion batteries

Heba H. Farrag, Eloi Grignon, Alicia M. Battaglia, Jiang Tian Liu and Dwight S. Seferos\*



## PAPERS

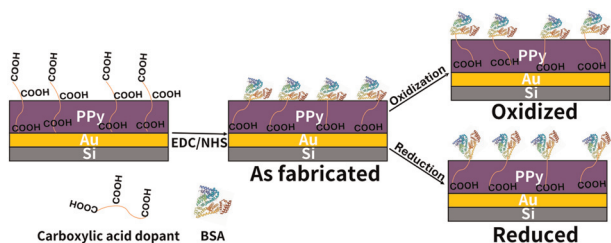
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### Phosphorous-containing, amphiphilic ABB' copolymers as siRNA nanocarriers with enhanced stability, reduced *in vitro* cytotoxicity, and efficient knockdown ability for the treatment of ocular diseases

Philipp Weingarten, Molly Tzu-Yu Lin, Moritz Kränzlein, Agnes Fietz, Iris Kachel, José Hurst, Sven Schnichels and Friederike Adams\*

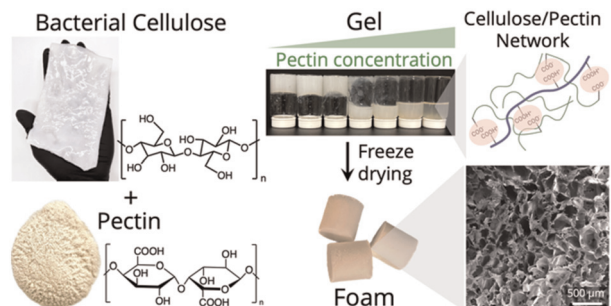
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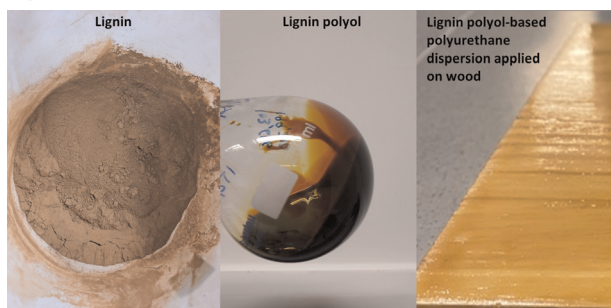
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### Modifying bacterial cellulose dispersions with deep eutectic solvent and pectin to tune the properties of open-celled foams

Hareesh Iyer, Aban Mandal, Michael Holden and Eleftheria Roumeli\*

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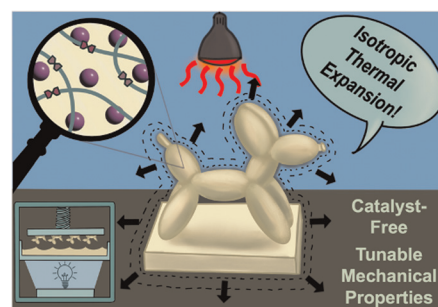
Leire Lorenzo, Walter Pitacco, Nour Mattar, Ibrahima Faye, Belén Maestro and Pablo Ortiz\*



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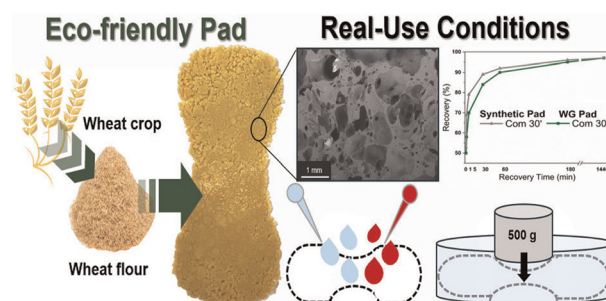
Rebecca M. Johnson, Ariel R. Tolfree, Gustavo Felicio Perruci, Lyndsay C. Ayers, Niyati Arora, Emma E. Liu, Vijayalakshmi Ganesh, Hongbing Lu and Ronald A. Smaldone\*



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Athanasios Latras, Mercedes A. Bettelli, Pamela F. M. Pereira, Amparo Jiménez-Quero, Mikael S. Hedenqvist and Antonio J. Capezza\*

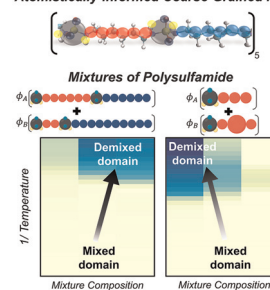


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### Coarse-grained molecular dynamics simulations of mixtures of polysulfamides

Jay Shah and Arthi Jayaraman\*

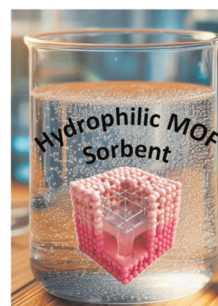
Atomistically-informed Coarse-Grained model

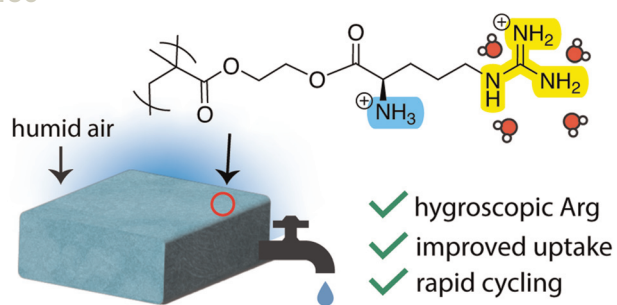


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### Thiol–ene click reaction: a new pathway to hydrophilic metal–organic frameworks for water purification

Mingyuan Fang, Riansares Muñoz-Olivas, Carmen Montoro\* and Mona Semsarilar\*





## Arginine-functionalised hydrogels as a novel atmospheric water-harvesting material

Moki K. Thanusing, Brett L. Pollard and Luke A. Connal\*

