

# RSC

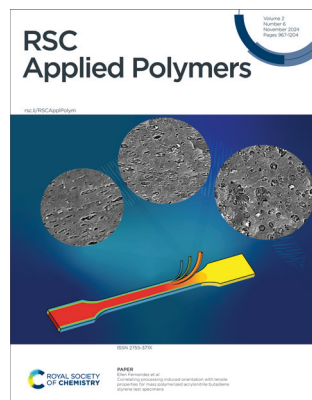
## Applied Polymers

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### IN THIS ISSUE

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#### Cover

See Ellen Fernandez *et al.*, pp. 1032–1042.

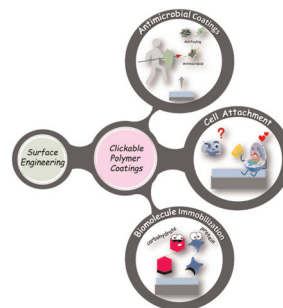
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### REVIEWS

976

#### 'Clickable' polymeric coatings: from antibacterial surfaces to interfaces with cellular and biomolecular affinity

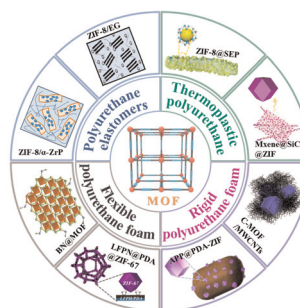
Aysun Degirmenci, Rana Sanyal and Amitav Sanyal\*



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#### A new way to improve the fire safety of polyurethane composites with the assistance of metal–organic frameworks

Jinhu Hu, Ye-Tang Pan,\* Keqing Zhou,\* Pingan Song and Rongjie Yang



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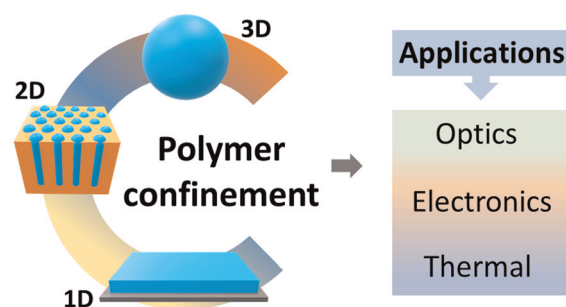


## PERSPECTIVE

1013

### Advancements in polymer nanoconfinement: tailoring material properties for advanced technological applications

Alberto Alvarez-Fernandez\* and Jon Maiz\*

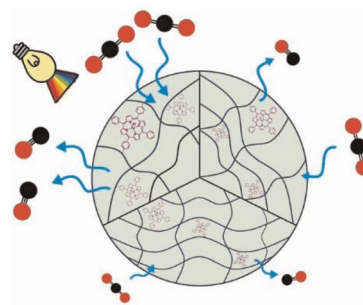


## COMMUNICATION

1026

### Effects of the cross-linked structures of polymer gels containing iron porphyrins on photoreduction of carbon dioxide

Shota Furusawa, Masanori Nagao,\* Hikaru Matsumoto and Yoshiko Miura\*

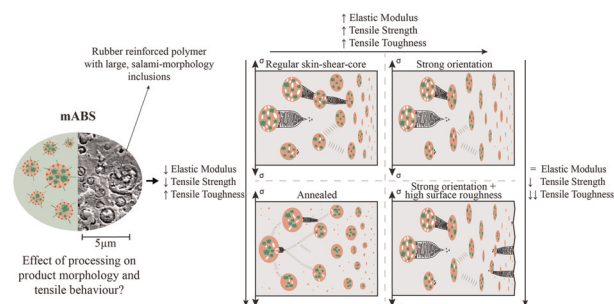


## PAPERS

1032

### Correlating processing induced orientation with tensile properties for mass polymerized acrylonitrile butadiene styrene test specimens

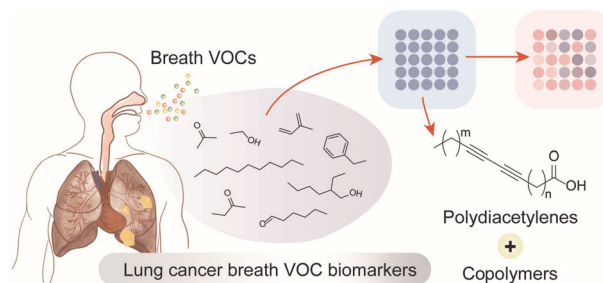
E. Fernandez, M. Edeleva, L. Cardon and D. R. D'hooge\*



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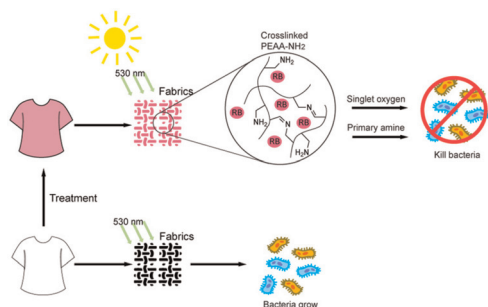
### Polydiacetylene/copolymer sensors to detect lung cancer breath volatile organic compounds

Angie Davina Tjandra and Rona Chandrawati\*



## PAPERS

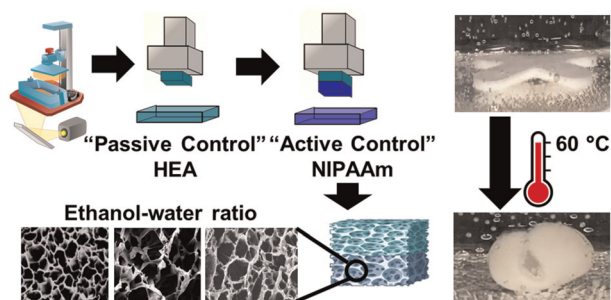
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### Antimicrobial textiles based on photocrosslinked poly(ethylene-co-acrylic acid)

Yimin Zeng and Michael O. Wolf\*

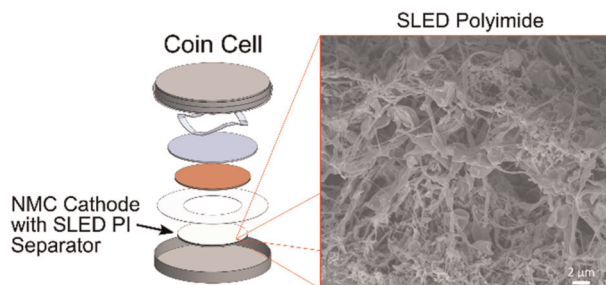
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### Tuning the thermal response of 3D-printed bilayer hydrogels via architectural control using binary ethanol–water solvent systems

Francis Klincewicz, Subhash Kalidindi and LaShanda T. J. Korley\*

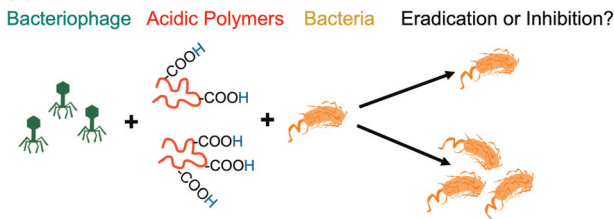
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### Self-limiting electro spray deposition (SLED) of porous polyimide coatings as effective lithium-ion battery separator membranes

Robert A. Green-Warren, Andrew L. Fassler,\* Abigail Juhl, Noah M. McAllister, Andrew Huth, Maxim Arkhipov, Michael J. Grzenda, S. Rahman Pejman, Michael F. Durstock and Jonathan P. Singer\*

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### Acidic polymers reversibly deactivate phages due to pH changes

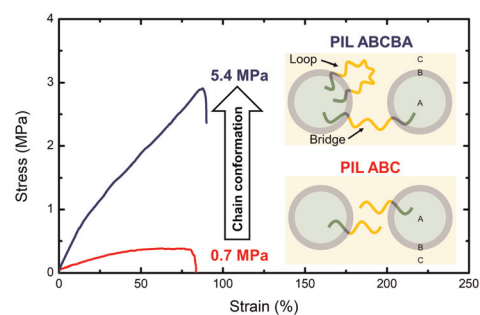
Huba L. Marton, Antonia P. Sagona,\* Peter Kilbride and Matthew I. Gibson\*



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### Poly(ionic liquid) ABC triblock and ABCBA pentablock terpolymer electrolytes for lithium metal batteries

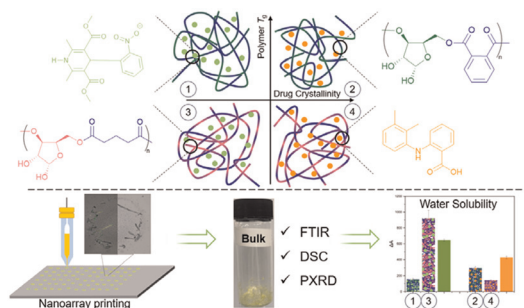
Dohyun Kim, Rui Sun, Roger Tocchetto, Carl Willis, Bert Krutzer, Frederick L. Beyer and Yossef A. Elabd\*



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### D-Xylose oxetane copolymers as bioderived and tuneable polyesters for amorphous solid dispersions

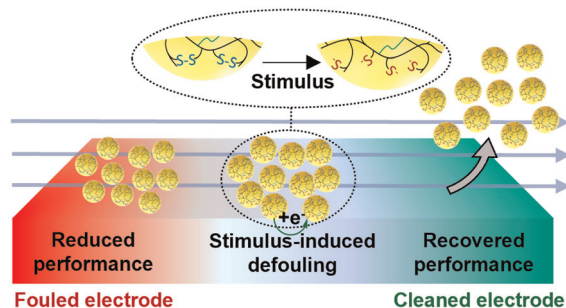
Ella F. Clark, Alexandra Howard, Sebastian D. Morales Feliu, James F. McCabe, Jonathan C. Burley, Vincenzo Taresco\* and Antoine Buchard\*



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### Organo-disulfide-based particles enable controlled stimulus-triggered cleaning of electrode surfaces

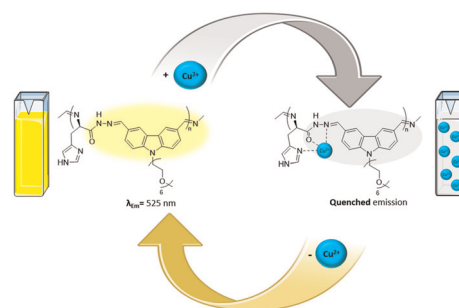
Hongyi Zhang, Garrett L. Grocke, Samuel S. Kopfinger, Yilin Wang, Arnav Brahmasandra, Randy H. Ewoldt, Stuart J. Rowan\* and Shrayesh N. Patel\*



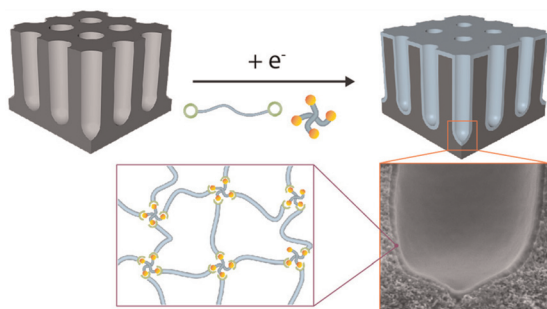
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### Fluorescent histidine-derived biodynamers as biocompatible and highly water-soluble copper(II)-sensors

Lena Zeroug-Metz, Mohamed A. M. Kamal, Justine Bassil, Kalanika Elamaldeniya, Bo Hyun Ryu, Eric Buhler and Sangeun Lee\*



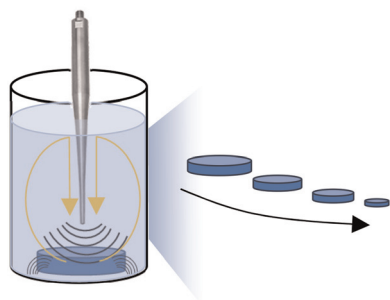
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### Cathodic electrodeposition of polymer networks as ultrathin films on 3-D micro-architected electrodes

Zhaoyi Zheng, Anton B. Resing, Wenlu Wang and Jörg G. Werner\*

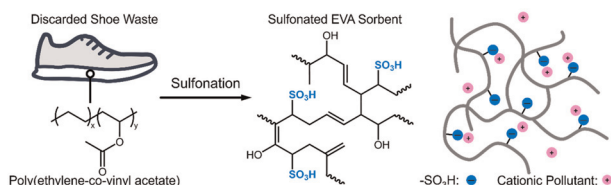
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### Sonication labile PEG-based hydrogel system for biological component suspension and subsequent degradation

Meagan N. Arguien, Joshua T. Kamps, Sarah A. Muth, Mariana Trujillo-Lemon and Christopher N. Bowman\*

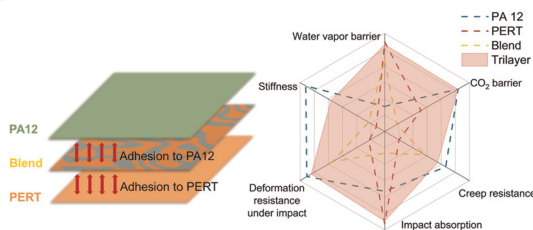
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### Valorization of shoe sole waste into high-performance cationic dye sorbents via sulfonation

Mark Robertson, Andrew Barbour and Zhe Qiang\*

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### A polyamide and polyethylene multilayer composite with enhanced barrier and mechanical properties at high temperature

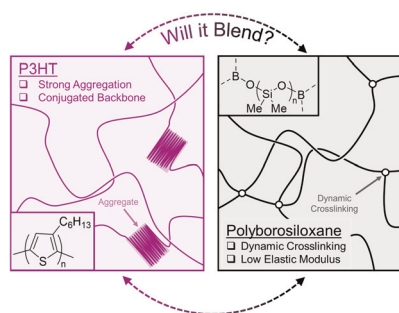
Weiqing Fang, Yu Hui Cheng, Adam Pearson, Yige Huang, Ashkan Dargahi, Mark Duncan, Joel Runka, Ahmed Hammami and Hani E. Naguib\*



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### Will it blend? Exploring the viscoelastic characteristics of P3HT-polyborosiloxane blends towards flexible electronic materials

Peter A. Gilhooly-Finn,\* Megan M. Westwood and Bob C. Schroeder\*



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### Contrasting interchain order and mixed ionic–electronic conduction in conjugated polymers: an isoindigo case study

Rebecca F. Meacham, Heejung Roh, Camille E. Cunin, Eric R. Lee, Wenhao Li, Yan Zhao, Sanket Samal\* and Aristide Gumyusenge\*

