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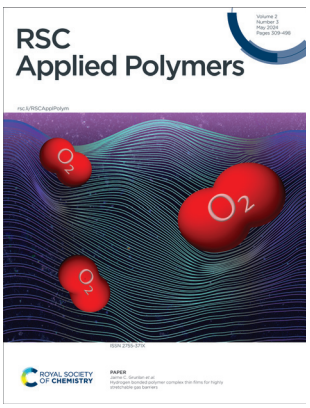

Cover
See Jaime C. Grunlan *et al.*, pp. 356–364.

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REVIEW

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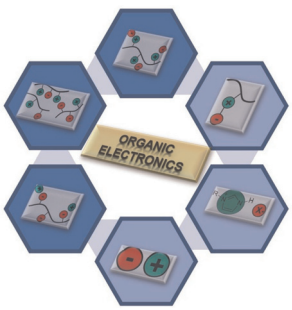
A review: advancing organic electronics through the lens of ionic liquids and polymerized ionic liquids

Swati Arora* and Nagendra Verma



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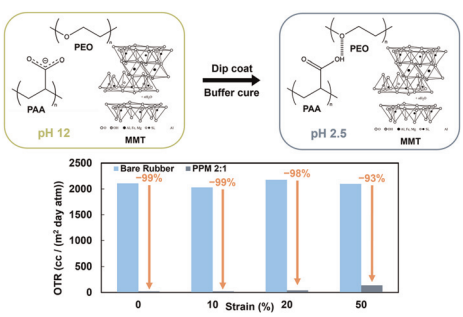
Hydrogen bonded polymer complex thin films for highly stretchable gas barriers

Sarah G. Fisher, Hsu-Cheng Chiang, Ethan T. Iverson, Edward Chang and Jaime C. Grunlan*



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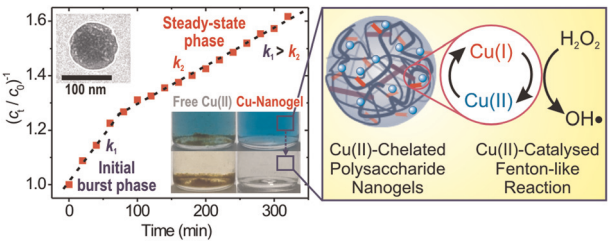
Chitosan-based glycated polyampholyte nanogels for copper-catalysed Fenton-like reaction

Yeonjoo Jung, Eunseo Lee, So-Lee Baek and Sang-Min Lee*



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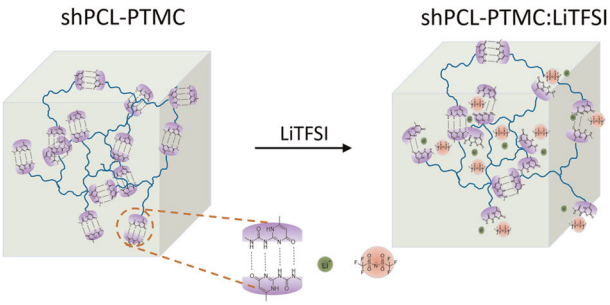
Inherent limitations of the hydrogen-bonding UPy motif as self-healing functionality for polymer electrolytes

Cuc Thu Mai, Harish Gudla, Guiomar Hernández, Kristina Edström and Jonas Mindemark*



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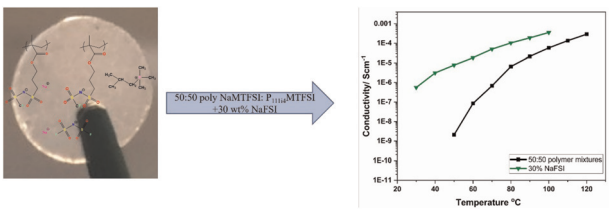
Ion conduction and phase behaviour in dual cation polyelectrolyte blends for sodium-ion batteries

Sneha Malunavar, Luca Porcarelli,* Patrick C. Howlett, David Mecerreyes and Maria Forsyth*



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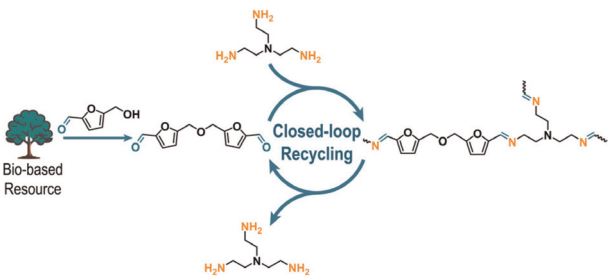
Closing the loop: polyimine thermosets from furfural derived bioresources

Tankut Türel, Keita Saito, Ivona Glišić, Tim Middelhoek and Željko Tomović*



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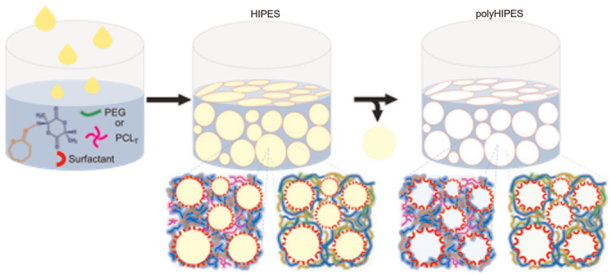

Ring-opening polymerization of emulsion-templated deep eutectic system monomer for macroporous polyesters with controlled degradability

Martín Castillo-Santillan, Priscila Quiñonez-Angulo, Dina Maniar, José Román Torres-Lubian, María C. Gutiérrez, Théophile Pelras, Albert J. J. Woortman, Qi Chen, María Guadalupe Pérez-García, Katja Loos* and Josué D. Mota-Morales*

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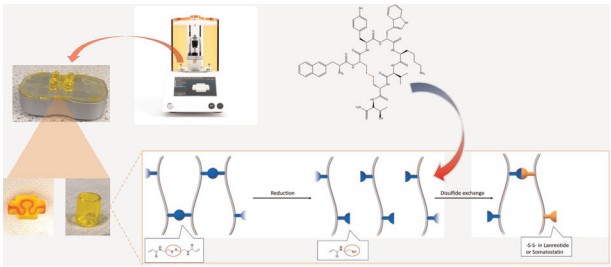

Fabrication of 3D objects incorporating peptides covalently attached *via* reversible disulfide linkages with potential for controlled drug release

Zhongyuan Wan, Wai Hin Lee, Yicheng Wang, Ataulla Shegiwal* and David M. Haddleton*

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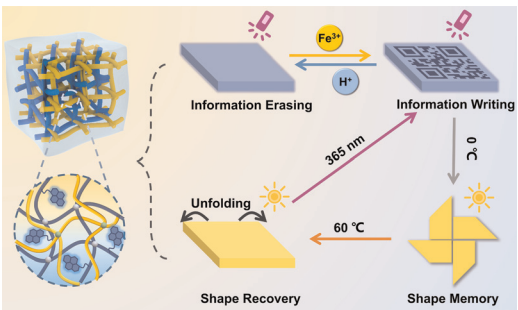

An organohydrogel with tunable fluorescence and shape-memory property for advanced anti-counterfeiting

Yu Sun, Hui Shang, Xiaoxia Le* and Tao Chen*

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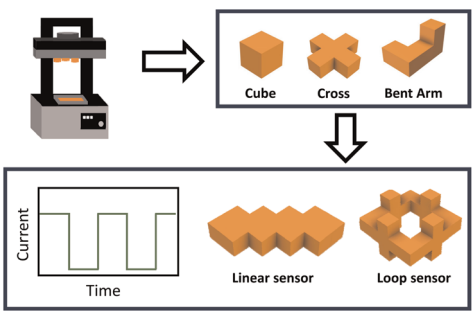

3D printed modular piezoionic sensors using dynamic covalent bonds

Julian Smith-Jones, Nathan Ballinger, Naroa Sadaba, Xabier Lopez de Pariza, Yunxin Yao, Stephen L. Craig, Haritz Sardon and Alshakim Nelson*

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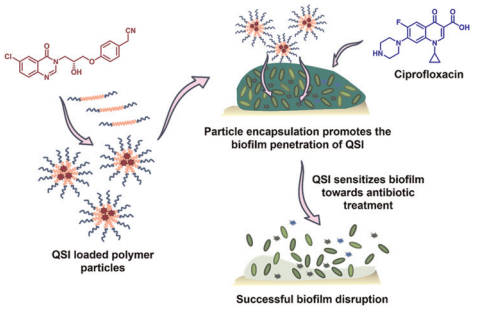
Triblock copolymer micelles enhance solubility, permeability and activity of a quorum sensing inhibitor against *Pseudomonas aeruginosa* biofilms

Karolina Kasza, Fadi Soukarieh, Manuel Romero, Kim R. Hardie, Pratik Gurnani, Miguel Cámara and Cameron Alexander*



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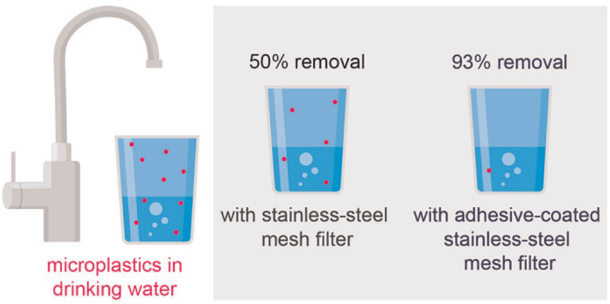
Enhancing microplastic capture efficiencies with adhesive coatings on stainless-steel filters

Malavika Ramkumar, Woojung Ji, Henry E. Thurber, Madeline E. Clough, Sarena Chirdon and Anne J. McNeil*



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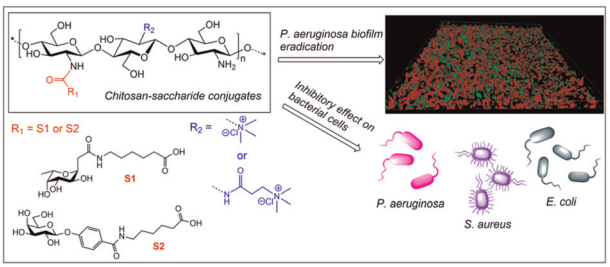
Chitosan–saccharide conjugates for eradication of *Pseudomonas aeruginosa* biofilms

Priyanka Sahariah,* Francesco Papi, Koi L. Merz, Olafur E. Sigurjonsson, Rikke Loiuse Meyer and Cristina Nativi



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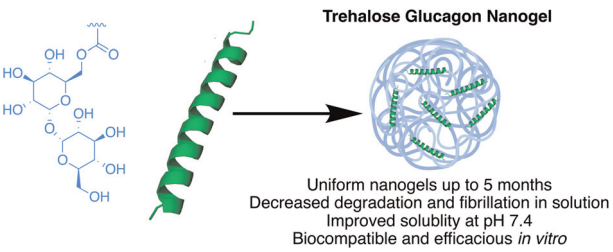
Uniform trehalose nanogels for glucagon stabilization

Ellie G. Puente, Rajalakshmi P. Sivasankaran, Daniele Vinciguerra, Jane Yang, Haillie-Ann C. Lower, Andrea L. Hevener and Heather D. Maynard*



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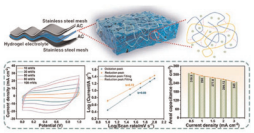

Ultrathin redox active hydrogel electrolytes for high performance flexible supercapacitors

Mengmeng Xun, Xiuting Shi, Haiping Wang, Xiaoyan Li, Wenxing Miao, Xiangbing Wang, Kanjun Sun, Hui Peng, Guofu Ma* and Yuxi Xu*

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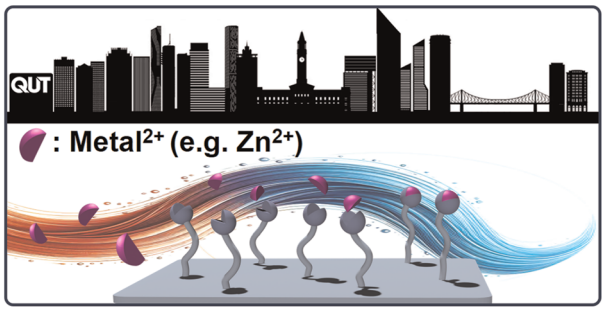

A bioinspired approach to reversibly metal binding interfaces

Agnes C. Morrissey, Vishakya Jayalatharachchi, Lukas Michalek, Prasanna Egodawatta, Neomy Zaquen, Laura Delafresnaye* and Christopher Barner-Kowollik*

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