

Polymer Chemistry

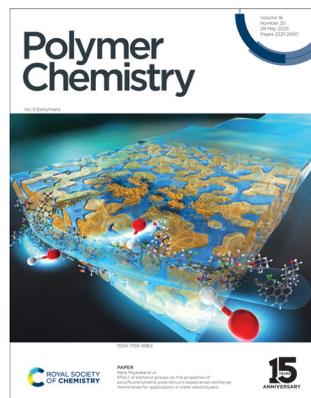
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Cover
See Kenji Miyatake *et al.*,
pp. 2358–2371.

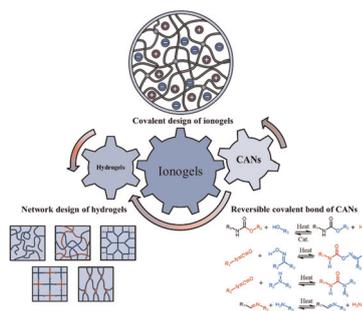
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Polym. Chem.,
2025, **16**, 2358.

REVIEW

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Covalent design of ionogels: bridging with hydrogels and covalent adaptable networks

Junjia Zhang,* Yian Wang, Yinglu Liu, Jérémy Odent and Yukikazu Takeoka*

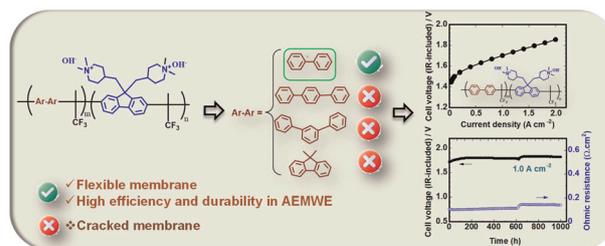


PAPERS

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Effect of biphenyl groups on the properties of poly(fluorenylidene piperidinium) based anion exchange membranes for applications in water electrolyzers

Ahmed Mohamed Ahmed Mahmoud, Kenji Miyatake,* Fanghua Liu, Vikrant Yadav, Fang Xian, Lin Guo, Chun Yik Wong, Toshio Iwataki, Makoto Uchida and Katsuyoshi Kakinuma



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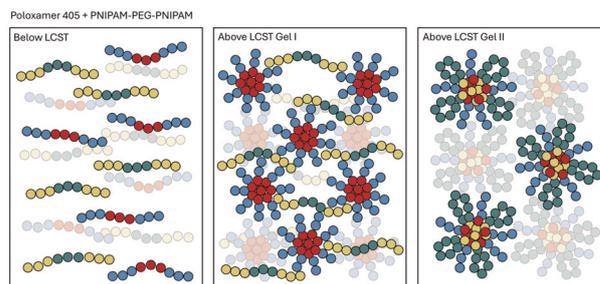
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Fundamental questions
Elemental answers

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Two-stepping: sol–gel–gel transitions in a mixed thermoresponsive polymer system

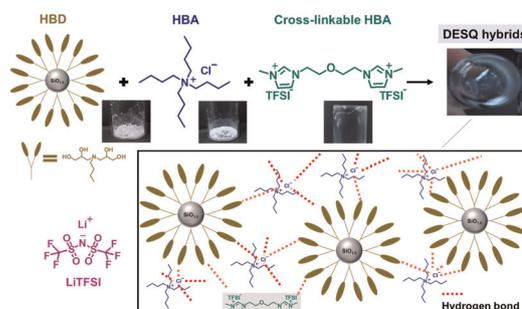
Mohamad A. Abou-Shamat, Alan Reader, Eleanor Hilton, Niamh Haslett, Abhishek Rajbanshi, Najet Mahmoudi, Marcelo Alves da Silva, Jacqueline Stair, Jesus Calvo-Castro and Michael T. Cook*



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Deep eutectic ion-conductive hybrids produced by combining hydroxyl-functionalized silsesquioxane and mono-/difunctional hydrogen bond acceptors

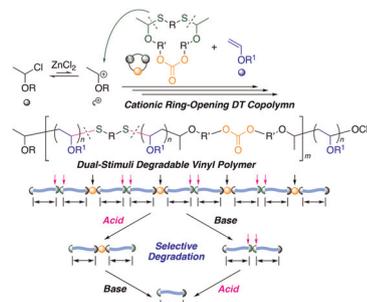
Tomohito Inoue, Sota Saito, Akihiro Nishioka and Hideharu Mori*



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Cyclic thioacetal carbonates for dual-stimuli degradable poly(vinyl ether)s with cleavable thioacetal and carbonate bonds evenly distributed in the main chains by cationic degenerative chain-transfer copolymerization

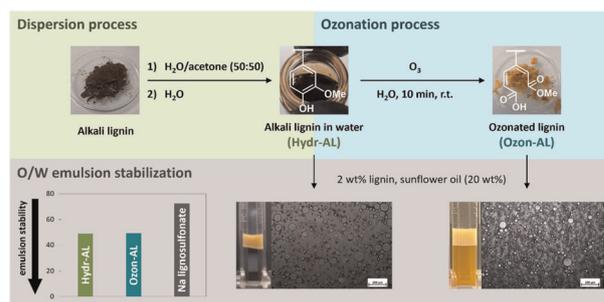
Mineto Uchiyama,* Kaoru Matoba and Masami Kamigaito*



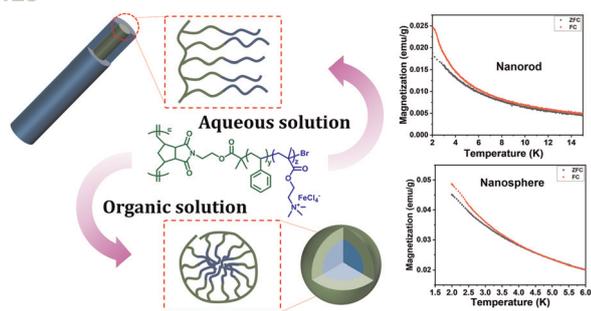
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Alkali lignin stabilization of oil-in-water emulsions via simple dispersion and ozonation processes

Maëva Peloille, Frédérique Ham-Pichavant, Marie Reulier, Cécile Joseph, Henri Cramail* and Stéphane Grelier*



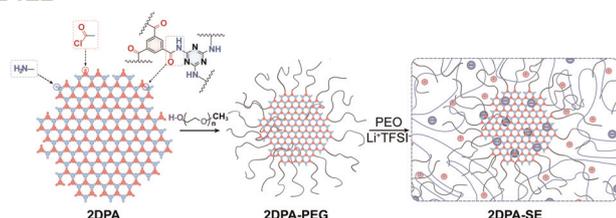
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Self-assembly of core-shell magnetic bottlebrush poly(ionic liquid)s: morphologies vs. magnetic properties

Chunman Li, Mingzhe Zhao, Zenian Gou, Tengda Zhao, Huimin Han, Kongying Zhu, Xiaoyan Yuan and Lixia Ren*

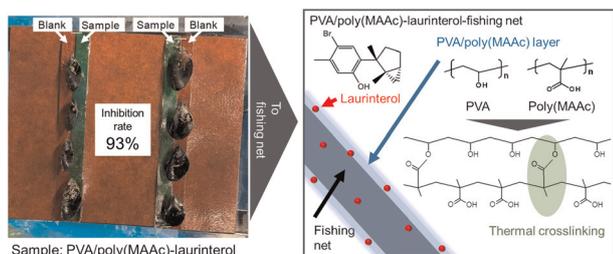
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Corona-shaped two-dimensional polyamid derivatives for poly(ethylene oxide)-based all-solid-state lithium batteries

Feifan Zheng, Liping Jiang, Xiaoli Gong, Zhengqiao Yin, Fei Wang and Yuwen Zeng*

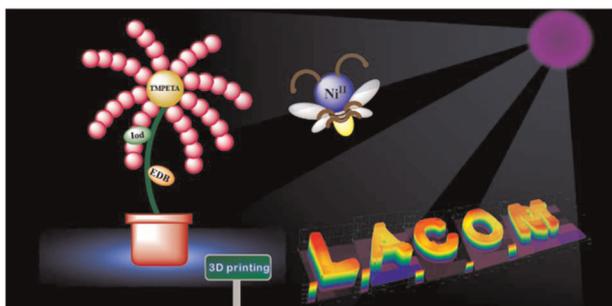
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Developing environmentally friendly fishing nets by integrating halogenated marine terpene with hydrogel polymers

Daiki Osada, Yohei Kotsuchibashi,* Kazumi Nimura, Yukimasa Yamagishi and Takashi Kamada*

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Visible light-promoted nickel-NHC photocatalysts for free radical photopolymerization and 3D printing application

Naralyne M. Pesqueira, Fabrice Morlet-Savary, Michael Schmitt, Valdemiro P. Carvalho-, Jr, Beatriz E. Goi* and Jacques Lalevée*

