Polymer Chemistry

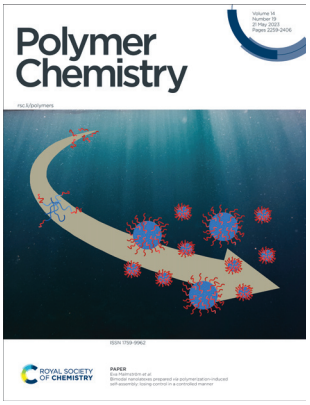
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

rsc.li/polymers

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

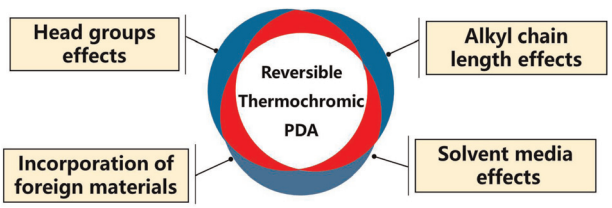
ISSN 1759-9962 CODEN PCOHC2 14(19) 2259–2406 (2023)



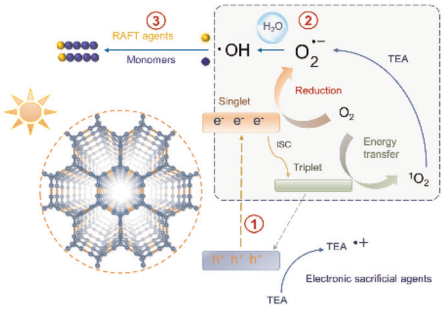
Cover
See Eva Malmström *et al.*, pp. 2308–2316.

Image reproduced by permission of Alexandros Alexakis and Eva Malmström from *Polym. Chem.*, 2023, **14**, 2308.

REVIEW



COMMUNICATIONS



Editorial Staff

Executive Editor
Maria Southall

Deputy Editor
Laura Ghandhi

Editorial Production Manager
Cara Sutton

Assistant Editors
Sean Browner, Molly Colgate, Paul Scott, Alison Winder

Editorial Assistant
Basita Javeed

Publishing Assistant
Allison Holloway

Publisher
Sam Keltie

For queries about submitted papers, please contact Cara Sutton, Editorial Production Manager in the first instance. E-mail: polymers@rsc.org

For pre-submission queries please contact Maria Southall, Executive Editor. E-mail: polymers-rsc@rsc.org

Polymer Chemistry (electronic: ISSN 1759-9962) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK
Tel +44 (0)1223 432398; E-mail: orders@rsc.org

2023 Annual (electronic) subscription price: £2935; $5014. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT.

If you take an institutional subscription to any Royal Society of Chemistry journal you are entitled to free, site-wide web access to that journal. You can arrange access via Internet Protocol (IP) address at www.rsc.org/ip

Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank.

Advertisement sales:
Tel +44 (0) 1223 432246; Fax +44 (0) 1223 426017;
E-mail: advertising@rsc.org

For marketing opportunities relating to this journal, contact marketing@rsc.org

Polymer Chemistry

rsc.li/polymers

The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof.

Information for Authors

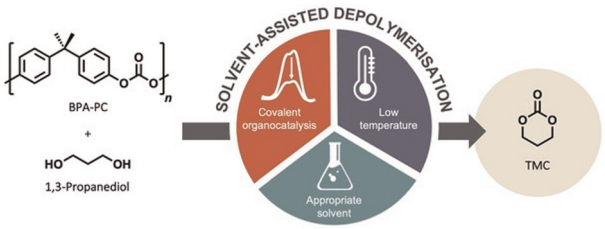
Full details on how to submit material for publication in Polymer Chemistry are given in the Instructions for Authors (available from http://www.rsc.org/authors). Submissions should be made via the journal's homepage: rsc.li/polymers Submissions: The journal welcomes submissions of manuscripts for publication as Full Papers, Communications, Perspectives and Reviews. Full Papers and Communications should describe original work of high quality and impact.

Colour figures are reproduced free of charge.
Additional details are available from the Editorial Office or http://www.rsc.org/authors

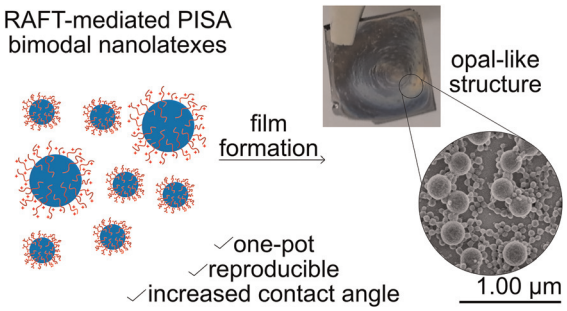
Registered charity number: 207890

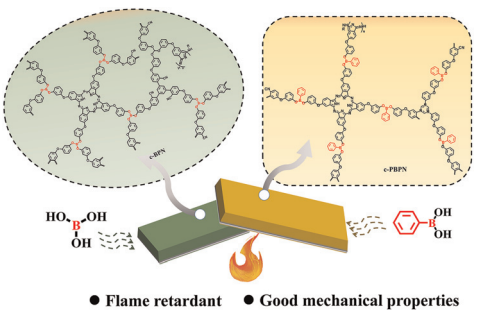
ROYAL SOCIETY OF CHEMISTRY

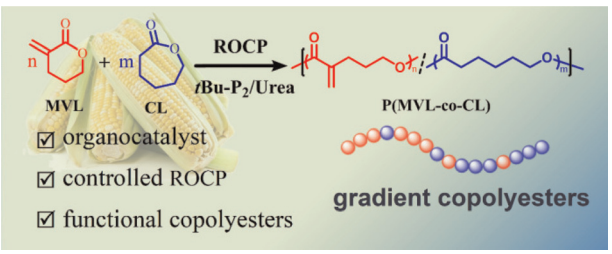
COMMUNICATIONS



PAPERS

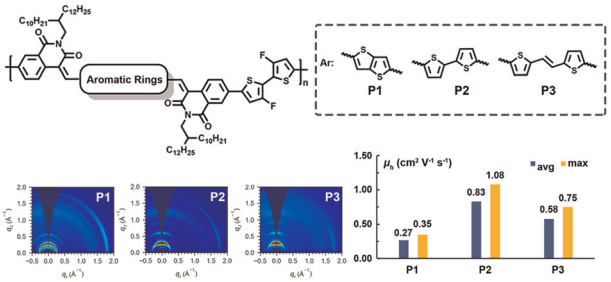






PAPERS

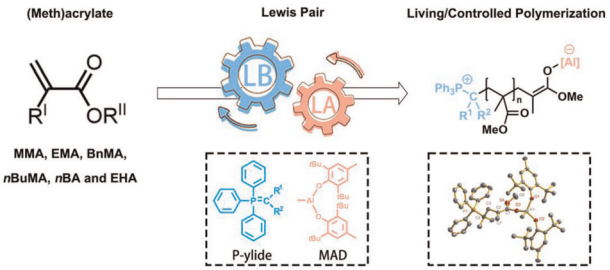
2333



Isoquinoline-1,3-dione-derived conjugated polymers for field-effect transistors: synthesis, properties, and the effect of inner aromatic bridges

Yankai Zhou, Qian Che, Weifeng Zhang,* Hao Li, Xuyang Wei, Xitong Liu, Liping Wang* and Gui Yu*

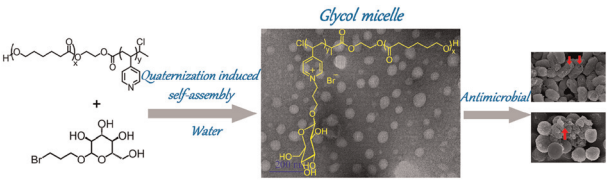
2344



Phosphonium ylide/organoaluminum-based Lewis pairs for the highly efficient living/controlled polymerization of alkyl (meth)acrylates

Zhikang Chen, Wuchao Zhao, Conglei Liu, Liuying Jiang,* Gang Fu, Yuetao Zhang* and Hongping Zhu*

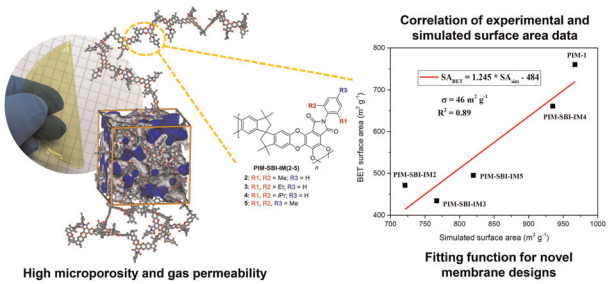
2355



Quaternization-induced micellization of cationic glycopolymers

Jing Chen, Zhaoquan Zheng, Die Li, Zhangbin Guan, Xiaoling Xu, Cenyao Shang, Qiang Zhang* and Guang-Zhao Li*

2363



Polymers of intrinsic microporosity containing aryl-phthalimide moieties: synthesis, modeling, and membrane gas transport properties

Fidel E. Rodríguez-González, Cenit Soto, Laura Palacio, Ana L. Montero-Alejo,* Néstor Escalona, Eduardo Schott, Bibiana Comesaña-Gándara,* Claudio A. Terraza* and Alain Tundidor-Camba*

PAPERS