

Polymer Chemistry

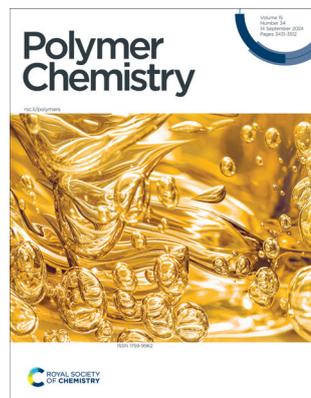
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

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 15(34) 3431–3512 (2024)



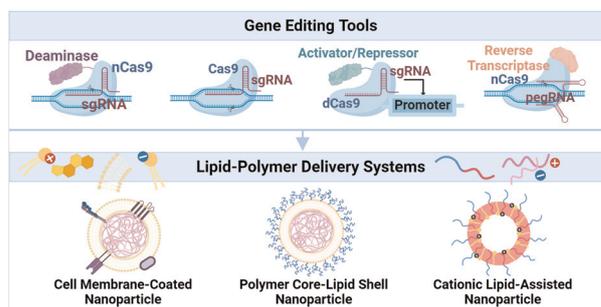
Cover
Front cover image ©
Aleksandra Konoplia/Getty
Images.

REVIEW

3436

Emerging lipid–polymer hybrid nanoparticles for genome editing

Mariana Gameiro, João F. Mano* and Vítor M. Gaspar*

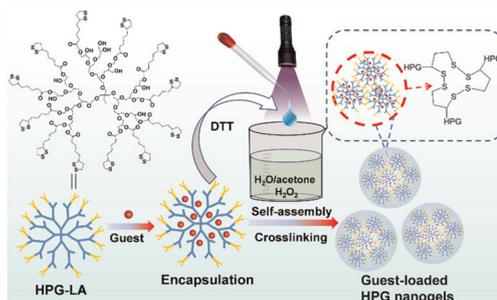


COMMUNICATIONS

3469

Integrating encapsulation and self-assembly-induced disulfide cross-linking: a universal strategy for preparing hydrophilic guest-loaded responsive hyperbranched polyglycerol nanogels

Hai Zeng, Qingli Chen and Li Zhou*



ChemComm

Uncover new possibilities
with outstanding
preliminary research

Original discoveries, fuelling
every step of scientific progress

rsc.li/chemcomm

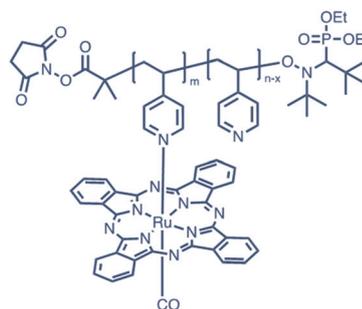
Fundamental questions
Elemental answers

COMMUNICATIONS

3475

Coordination of ruthenium phthalocyanine with poly(4-vinylpyridine)

Menandro V. Cruz, Melanie Cyr, Habiba Boughanmi, José García-Calvo, Jaclyn Brusso, Tomás Torres and Benoît H. Lessard*

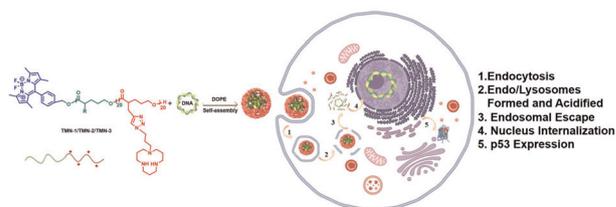


PAPERS

3480

Functionalized polyesters based on valerolactones and [12]aneN₃ as effective non-viral gene vectors in HepG2 cells

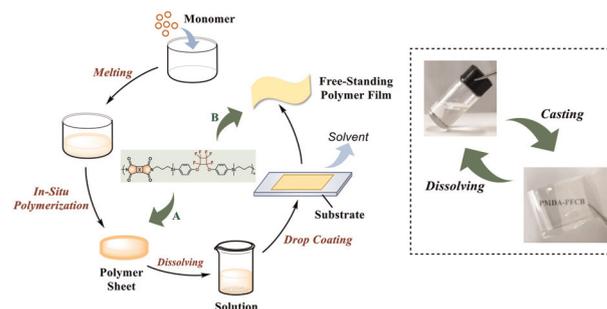
Xi Zhang, De-Zhong Xu, Zi-Han Zhang, Zhi-Xuan Ren, Jia-Rao Wu, Yun-Jie Xu, Zhong-Lin Lu,* Rui Liu* and Yang Liu*



3492

Dual-processable semi-aromatic fluorinated polyimides with outstanding optical transparency and low dielectric constants prepared from *in situ* [2 + 2] thermal polymerization

Hongzhu Chen, Qihua Wu, Lijun Chen, Weixian Zhang, Xiaoli Li, Jianbo Peng and Jiajia Wang*



3501

Ethyl cellulose-*block*-poly(benzyl glutamate) block copolymer compatibilizers for ethyl cellulose/poly(ethylene terephthalate) blends

Abigail F. Chinn, Isabela Trindade Coutinho, Saipranavi Reddy Kethireddy, Noah R. Williams, Kenneth M. Knott, Robert B. Moore* and John B. Matson*

