

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(14) 1361–1462 (2024)



Cover

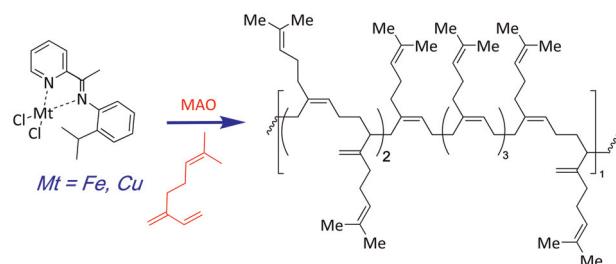
Image credit: © Juan Gaertner/SPL/Getty Images

PAPERS

1367

Synthesis of stereoregular polypyrenes using neodymium-, iron- and copper-based catalysts

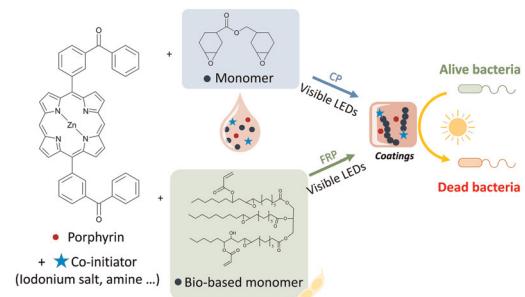
Giovanni Ricci,* Antonella Caterina Boccia, Benedetta Palucci, Anna Sommazzi, Francesco Masi, Miriam Scoti, Fabio De Stefano and Claudio De Rosa



1377

Porphyrin-based photosensitizers for visible-light polymerization and antibacterial applications

Fanny Schnetz, Iryna Knysh, Denis Jacquemin, Samir Abbad Andaloussi, Marc Presset, Sonia Lajnef, Fabienne Peyrot and Davy-Louis Versace*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit rsc.li/cpd-training

**SAVE
10%**

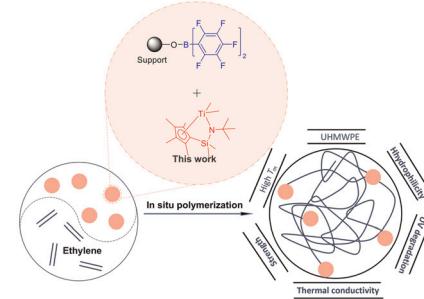


PAPERS

1393

B(C₆F₅)₃ grafted inorganic fillers for supported titanium-catalyzed synthesis of UHMWPE composites

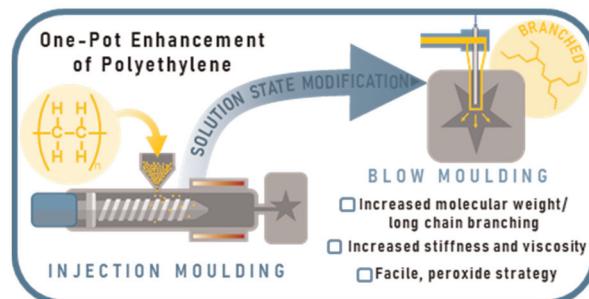
Zhengxing Bi, Zhao Zhang, Naeimeh Bahri-Laleh, Quan Wang* and Chen Zou*



1399

A versatile modification strategy to enhance polyethylene properties through solution-state peroxide modifications

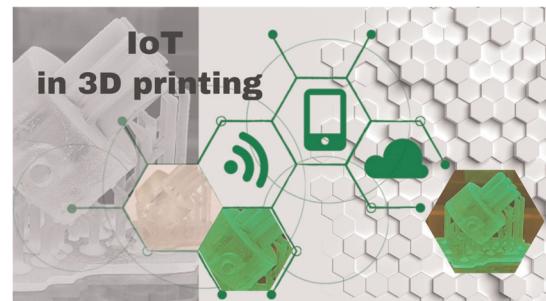
Utku Yolsal, Thomas J. Neal, James A. Richards, John R. Royer and Jennifer A. Garden*



1413

An optical fluorescence sensor for IoT application in direct visualization of the curing process in polymer matrices

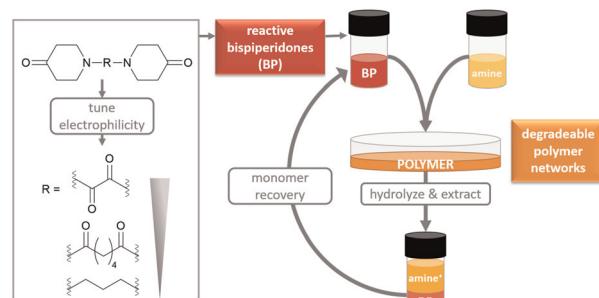
Patryk Szymaszek, Paweł Fiedor, Małgorzata Tyszka-Czochara, Mariusz Galek and Joanna Ortyl*



1427

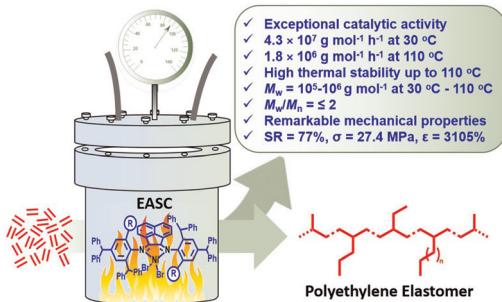
Degradable bispiperidone derivative amine networks with monomer recovery

Patricia Godermajer, Andreas J. Achazi, Doreen Mollenhauer, Andreas Seifert and Michael Sommer*



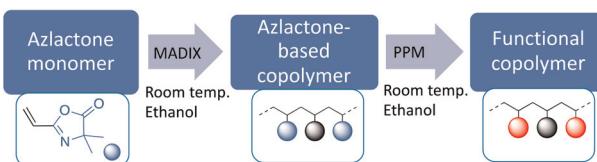
PAPERS

1437



1453

“Friendly” organic solvent & low energy-consuming process



High-performance polyethylene elastomers using a hybrid steric approach in α -diimine nickel precatalysts

Hassan Saeed, Qaiser Mahmood,* Rongyan Yuan, Yizhou Wang, Song Zou, Kainat Fatima Tahir, Yanping Ma,* Tongling Liang and Wen-Hua Sun*

Azlactone-based copolymers by redox-initiated MADIX polymerization at room temperature in ethanol

Francesca François, Guillaume Gody, James Wilson, Laurent Fontaine* and Sagrario Pascual*

