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IN THIS ISSUE

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Cover

See Henrik Strand, Mari-Ann Einarsrud *et al.*, pp. 530–542.

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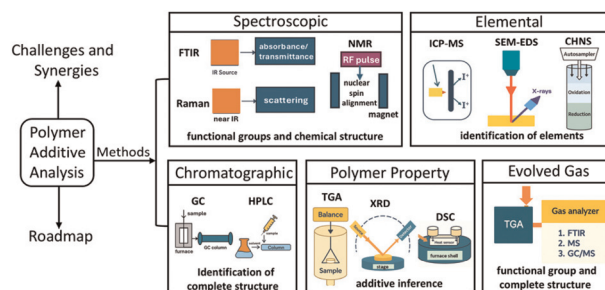
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REVIEWS

466

Detection, identification, and quantification of polymer additives: a review of techniques, approaches, challenges, and a possible roadmap in analysis

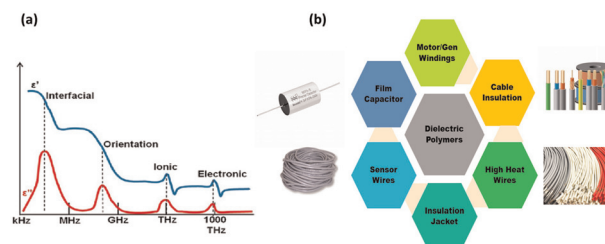
Tanmay Rahman, Daniel Meadows, Ke Zhan, Harrish Kumar Senthil Kumar, Marshall Smith, Virginia A. Davis, Bryan S. Beckingham, Yucheng Peng and Edward Davis*



502

Unlocking high-performance capacitive energy storage: advances in polymer nanocomposite dielectrics

Tanuj Kumar,* Rahul Singhal, Ramesh Kumar, Arunima Verma, Priya Jasrotia, Arun Kumar, Rajeev Gupta, Ajay Singh Verma, Priyankaben Trivedi and Manju Bala



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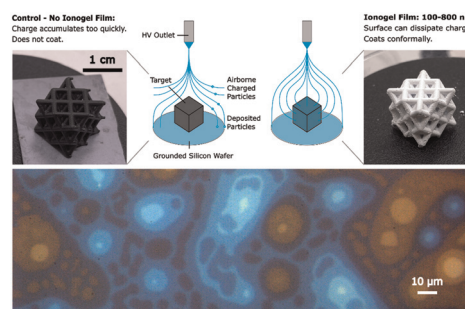


**SAVE
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524

Ionogel thin films as a compatibilizing pretreatment for electrospray deposition

Tejasvi Venkat, Hannah Mow, Emily Li, Weronika Wasniowska, Ayman Rouf, Noah M. McAllister, Zainab Al-Jaleel and Jonathan P. Singer*

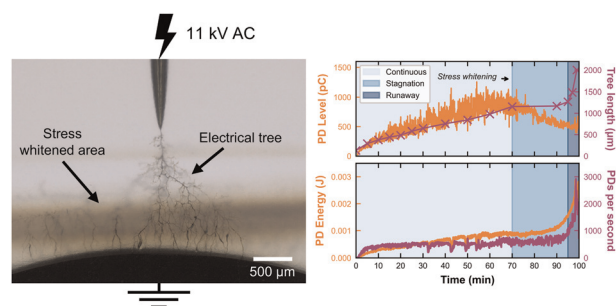


PAPERS

530

Electrical treeing in stress-whitened polypropylene thermoplastic elastomer cable insulation

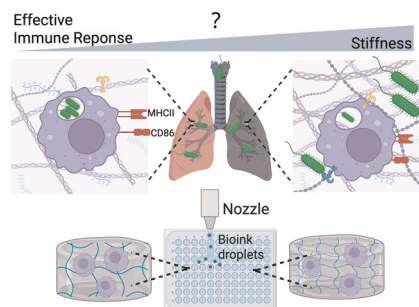
Henrik Strand,* Jorunn Hølto, Sverre Hvidsten and Mari-Ann Einarsrud*



543

High-throughput bioprinted 3D cultures for probing host–pathogen interactions in bioinspired microenvironments

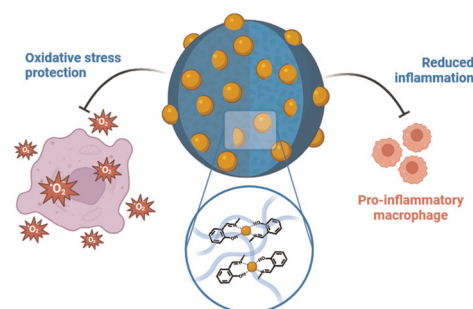
Jodi Graf,* DeVonte Moore,* Catherine L. Grimes, Catherine A. Fromen and April M. Kloxin



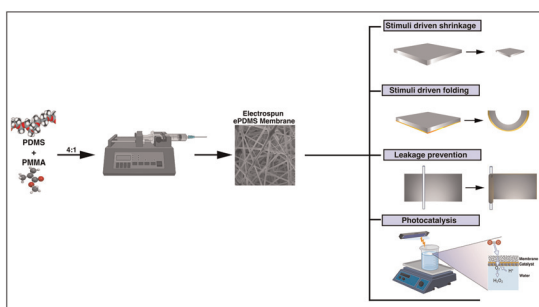
557

Biodegradable copper complexing polymeric microparticles relieve oxidative stress

Laurel Zhang, Cole Latvis, Xiaokun Jiang, Yadong Wang* and Simon Van Herck*



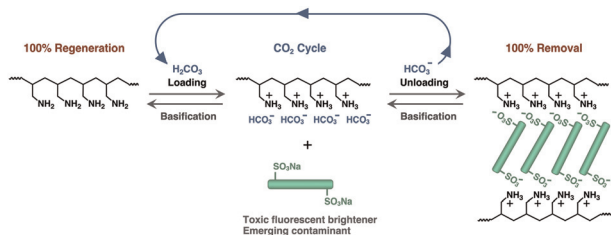
568



Multifunctional flexible electrospun polydimethylsiloxane (ePDMS) membranes for soft robotics applications and photocatalytic conversion platforms

I. R. Reshma, Gokula Nathan Kasinathan, Akshay Tikoo, Praveen Meduri, Subha Narayan Rath* and Shourya Dutta-Gupta*

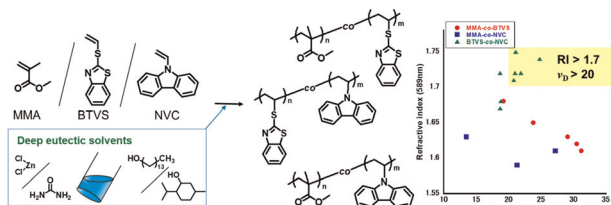
582



Effective and sustainable removal of a model fluorescent brightener using bicarbonate-loaded polyelectrolytes in a closed-loop CO₂ cycle

Eri Yoshida

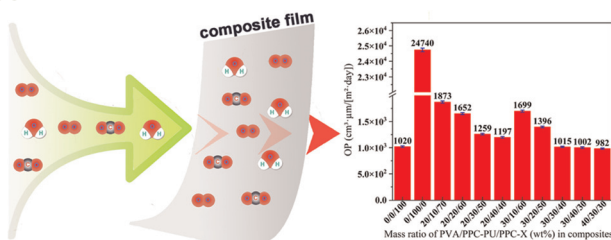
591



High-refractive-index copolymers produced by radical copolymerization of aromatic heterocyclic monomers in deep eutectic solvents

Yuji Tsuchida, Kento Sato, Sadaki Samitsu and Hideharu Mori*

601



Preparation, characterization and properties of PPC-based fully biodegradable ternary blends for sustainable packaging application

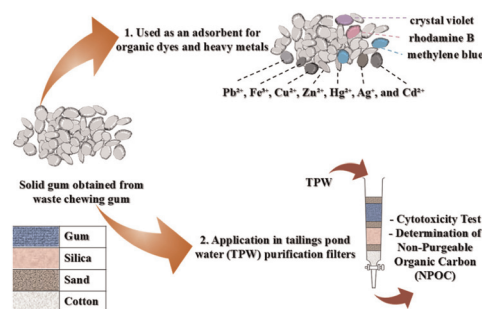
Yong Chen,* Yang Zhao, Min Xiao and Yue-Zhong Meng



615

Application of chewed gum for treating oil sands tailings and adsorbing organic dyes and heavy metal ions

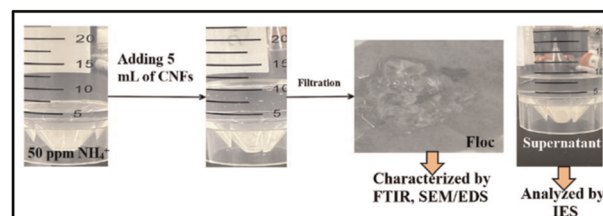
Wei Zhang, Amirhossein Farshchi-Andisi, Maryam Salami* and Michael J. Serpe*



626

Functionalized nanocellulose for efficient removal of ammonium impurities from contaminated water

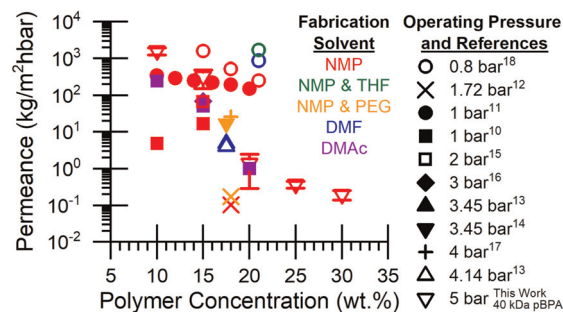
Priyanka Sharma,* Eyad Mohammed A. Alfarsi, Stanley C. Hicks, Miles Anthony Miller, Saikumar Muddapu, Abbygayle Razalind Ruggiero, William Borges, Julian J. Koebbe, Michael Kahwaji, Anindya K. Swarnakar and James Springstead



636

The effect of Bisphenol A vs. Bisphenol F on the performance of polysulfone membranes

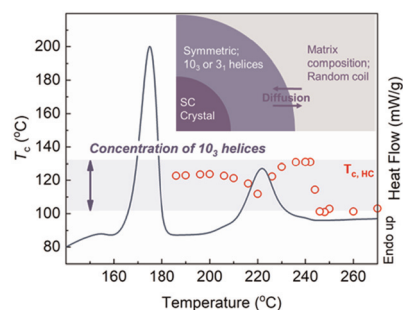
Taysha Telenar, Rowen Sadlier, Kelly Nguyen, Alexis Powell, Oshio Oyageshio and Matthew D. Green*



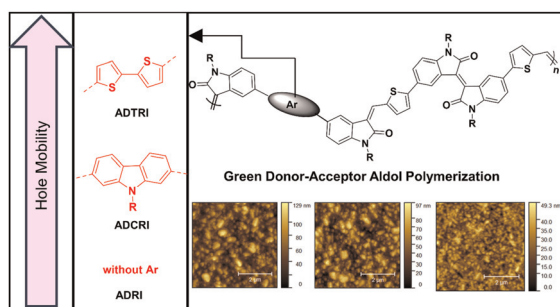
651

Understanding nucleation efficiency of stereocomplex-crystallites on homochiral crystallization in poly(L-lactide)/poly(D-lactide) blends: homogenization near crystal growth front

Qi Chen, Mansurali Mithani, Rafael Auras, Jacob Judas Kain Kirkensgaard and Ilke Uysal-Unalan*



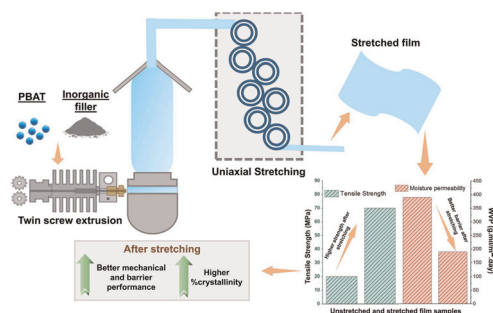
662



Synthesis and study of donor–acceptor conjugated polymers based on isoindigo units via a metal-free aldol polymerization strategy

Prerak R. Patel, Mayur J. Patel, Parameswar K. Iyer,*
Sanjio S. Zade* and Arun L. Patel*

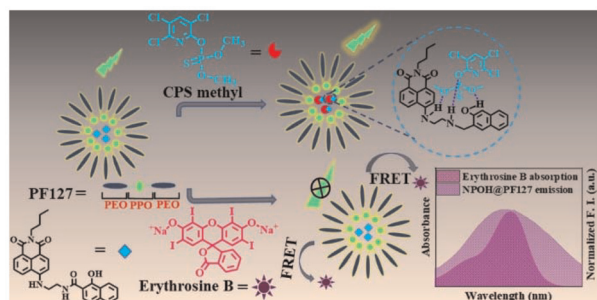
674



Study of uniaxially stretched single-layer and multi-layer blown films based on poly(butylene adipate-co-terephthalate) and inorganic fillers for food and agriculture applications

Debarshi Nath, Matias Menossi, Ehsan Pesaranhajiabbas,
Michael R. Snowden, Amar K. Mohanty* and
Manjusri Misra*

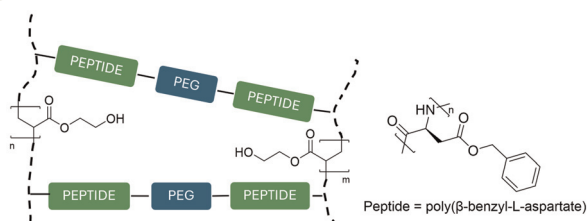
689



Harnessing 1,8-Naphthalimide based amide capped with Pluronic F127 micelles for the detection of chlorpyrifos methyl and erythrosine B

Nisha Jain and Navneet Kaur*

704



Peptide-reinforced, photocrosslinkable PEG-based hydrogels

Sam Russell, Daseul Jang, Jessica Thomas,
Patrick Grysan, Linus Sprandl, Markus Biesalski,
LaShanda T. J. Korley and Nico Bruns*

Peptide-Reinforced PEG-based Conetworks:

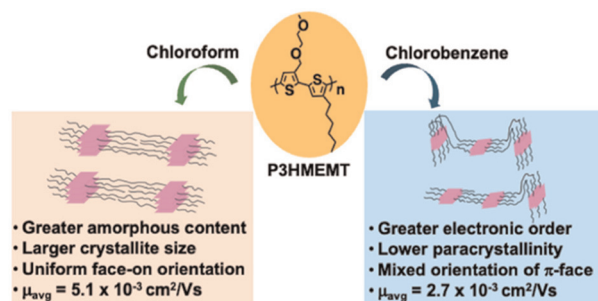
- ✓ UV-crosslinkable monomer mixture
- ✓ Swellable in water \rightarrow Hydrogels
- ✓ Improved mechanical properties



716

Chloroform outperforms chlorobenzene for enhanced mobility in amphiphilic polymer OFETs

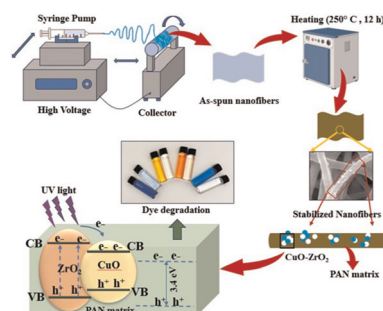
Preeti Yadav, Shunsuke Yamamoto, Kodai Yamanaka, Hengyuan Wang, Nadège Bonnet, Yabing Qi, Itaru Osaka and Christine K. Luscombe*



725

Recyclable and eco-compatible polymer composite nanofibers for broad-spectrum dye remediation

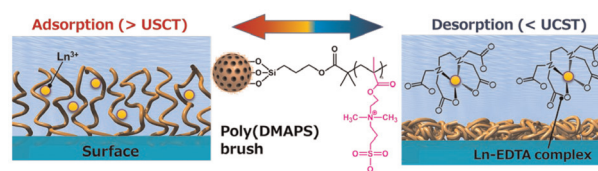
Kritika Rajput, Jesus Vazquez Chavez, Ana B. Jorge Sobrido, Manish Dev Sharma and Colin R. Crick*



736

Development of an adsorption–desorption technique for the recovery of rare-earth metal ions using the phase transition behavior of zwitterionic polymer brushes

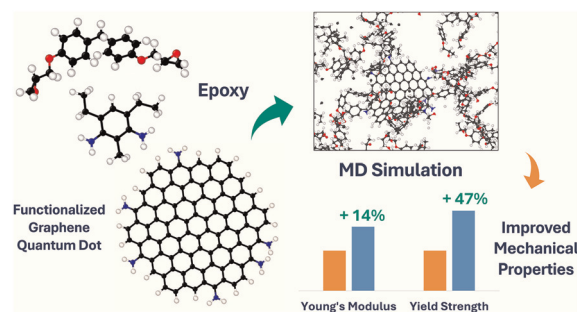
Tommy Suhartono Wijaya Tan, Naokazu Idota and Takehiko Tsukahara*



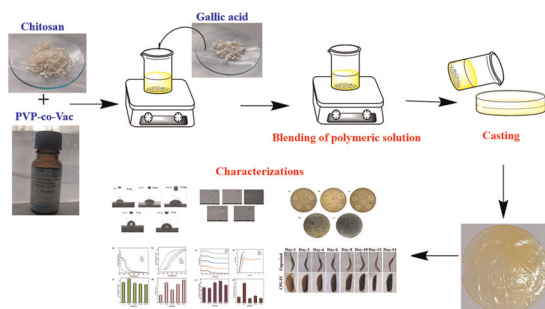
753

Enhancing the mechanical properties of epoxy with graphene quantum dots: a molecular dynamics study

Swapnil S. Bamane,* Prathamesh P. Deshpande, Folarin Erogbogbo and Ozgur Keles



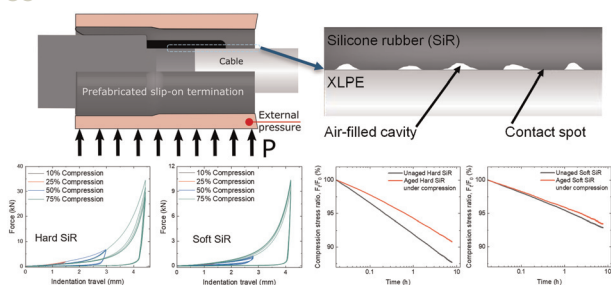
767



Fabrication of gallic acid crosslinked chitosan/poly(1-vinylpyrrolidone-co-vinyl acetate) antioxidant films for green chilli packaging

Bhagyalakshmi A. Sheeparamatti, Priyanka Baburao, Priyadarshini, Shiddalingesh G. Havanur, Ravindra B. Chougale,* Manjushree Nagaraj Gunaki, Ajitkumar Appayya Hunashyal, Saraswati P. Masti, Nagarjuna Prakash Dalbanjan and S. K. Praveen Kumar

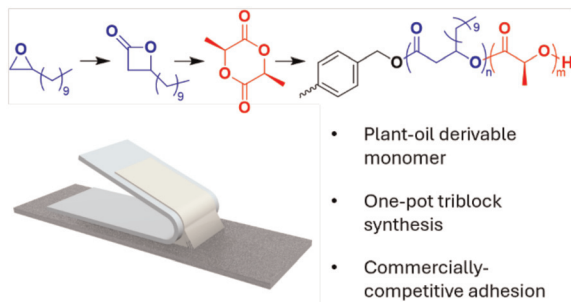
785



Accelerated ageing of silicone rubber and XLPE used in HV cable accessories: a thermomechanical analysis

Oscar Kayanja, Emre Kantar, Svein M. Hellesø, Julia Glaum, Sverre Hvidsten and Mari-Ann Einarsrud*

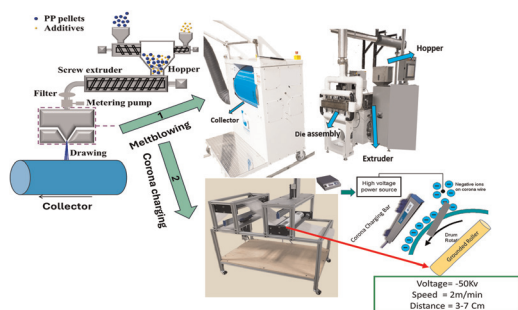
796



Polyhydroxyalkanoate block polymer adhesives derived from long-chain aliphatic β -lactones and lactide

Peter V. Kelly, Alison Block, Brenden D. Hoehn, Pathikrit Saha, Christopher J. Ellison* and Marc A. Hillmyer*

807



Effect of corona charging, additives and processing conditions on the barrier and filtration properties of polypropylene melt-blown

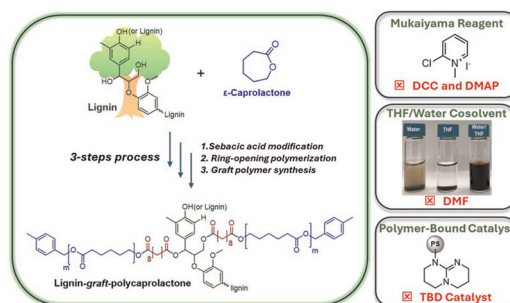
Partha Sikdar* and Gajanan S. Bhat



823

Sustainable synthesis methods of lignin-based copolymers: recyclable non-carbodiimide catalytic systems in aqueous solvent

Christian Gonzalez, Arijit Ghorai and Hoyong Chung*



839

Impact of π -conjugation and fluorination on the sensing performance of 1,6-pyrene covalent triazine frameworks

M. Carmen Borrallo-Aniceto, Beatriz Fuerte-Díez, Laura González-Aguilera, M. Luisa Ferrer, M. Pilar Lillo, Andreas Mavrandonakis, Urbano Díaz, Eva M. Maya* and Marta Iglesias*

