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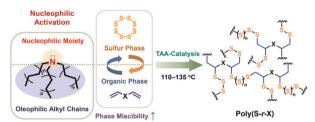
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Inverse vulcanization of elemental sulfur catalyzed by trialkyl amines

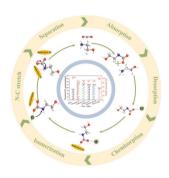
Jae Hyuk Hwang, Ji Mok Lee, Jong Hwi Seo, Guk Yun Noh, Wonmoo Byun, Seonggeon Kim, Woohwa Lee, Sungmin Park,* Dong-Gyun Kim* and Yong Seok Kim* Facile and Fast Inverse Vulcanization of Elemental Sulfur (ES) using Unreactive Crosslinkers under Eco-friendly Trialkyl Amines (TAAs) Catalysis



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Evaluation of hybrid amines and alcohol solvent with ion-exchange resin catalysts for energy-efficient CO₂ capture

Qiang Sun, Jia Xiong, Hongxia Gao,* Teerawat Sema, Wilfred Olson and Zhiwu Liang*



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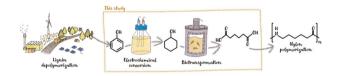
An electrochemical-enabled cascaded cyclization of enaminones with potassium thiocyanate and alcohols to access 2-alkoxythiazoles

Dandan Li,* Long Chen, Yang Jin, Xiaochen Wang, Long Liu, Yilin Li, Gongyuan Chen, Guanhao Wu, Yujie Qin, Leilei Yang, Mengke Wang, Lulu Zhao, Zhihong Xu and Jiangwei Wen*

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Integrated electrosynthesis and biosynthesis for the production of adipic acid from lignin-derived phenols

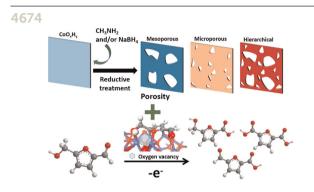
Micjel Chávez Morejón, Alexander Franz, Rohan Karande* and Falk Harnisch*



4667 One-pot biocatalytic cascade 8 examples (S)-IRED 97 to >99%ee Up to 100% conv. 1) Buchwald-Hartwig cyclization 2) deallylation

Chemo-enzymatic synthesis of chiral 3-substituted tetrahydroquinolines by a sequential biocatalytic cascade and Buchwald-Hartwig cyclization

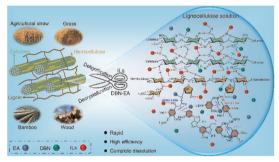
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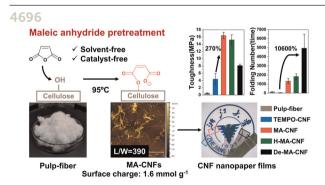
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Robust ionic liquid/ethanolamine-superbase solvents enable rapid, efficient and mild dissolution of lignocellulosic biomass

Yang Wang, Huan Wang, Lan Chen, Weitao Wang, Zhaohui Yang, Zhimin Xue* and Tiancheng Mu*



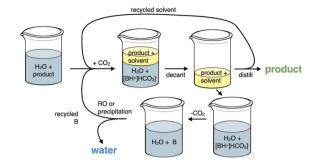
Eco-friendly cellulose nanofibrils with high surface charge and aspect ratio for nanopaper films with ultrahigh toughness and folding endurance

Da Zhang, Kexia Jin, Khak Ho Lim, Suyun Jie, Wen-Jun Wang and Xuan Yang*

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A CO₂-responsive method for separating hydrophilic organic molecules from aqueous solutions: solvent-assisted switchable water

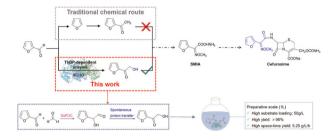
Vanessa Saab Liberato, Tatiana Felix Ferreira, Alex Redmond MacDonald, Bernardo Dias Ribeiro, Maria Alice Zarur Coelho and Philip G. Jessop*



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Xianghe Zhang, Hao Wei, Xinlin Wei, Tengteng Qi, Xinrui Zong, Zixi Liu, Jie Qin, Xiuzhen Gao,* Gengxiu Zheng* and Qinyuan Ma*



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High-purity polypropylene from disposable face masks *via* solvent-targeted recovery and precipitation

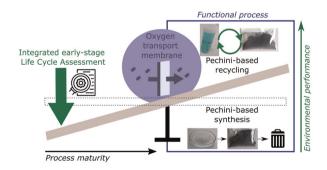
Jiuling Yu, Aurora del Carmen Munguía-López, Victor S. Cecon, Kevin L. Sánchez-Rivera, Kevin Nelson, Jiayang Wu, Shreyas Kolapkar, Victor M. Zavala, Greg W. Curtzwiler, Keith L. Vorst, Ezra Bar-Ziv and George W. Huber*



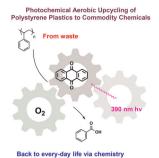
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Recycling process development with integrated life cycle assessment – a case study on oxygen transport membrane material

Melanie Johanning, Marc Widenmeyer,* Giamper Escobar Cano, Vanessa Zeller, Sebastian Klemenz, Guoxing Chen, Armin Feldhoff and Anke Weidenkaff



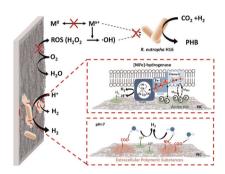
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Nikolaos F. Nikitas, Elpida Skolia, Petros L. Gkizis, Ierasia Triandafillidi and Christoforos G. Kokotos*

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Efficient CO₂ conversion by biocompatible N-doped carbon nanosheets coupled with Ralstonia eutropha: synergistic interactions between microbial and inorganic catalysts

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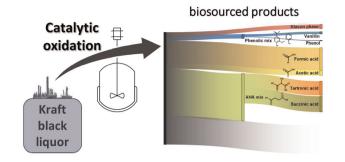
Efficient conversion of chitin into 5-hydroxymethylfurfural via a simple formylation step under mild conditions

Chunxiao Gong, Zhaoyang Ju, Kuichuan Sheng and Ximing Zhang*

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Potential of catalytic oxidation of kraft black liquor for the production of biosourced compounds

Léa Vilcocq,* Nicolas Chaussard, Antonio Hernández Mañas, Olivier Boyron, Manel Taam, Frédérique Bertaud, Pascal Fongarland and Laurent Djakovitch*



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Sustainable polar aprotic/poly-deep eutectic solvent systems for highly efficient dissolution of lignin

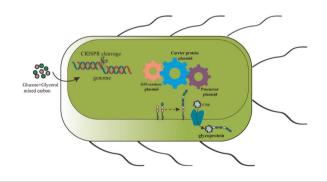
Qiaoling Liu, Yang Wang, Jing Bian, Ming-Fei Li, Jun-Li Ren, Xiang Hao* and Feng Peng*



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Sustainable production of a polysaccharide-based glycoprotein by simultaneous conversion of glucose and glycerol in engineered Escherichia coli

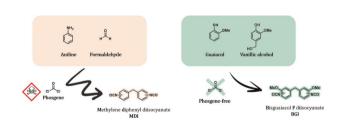
Yuhui Wang, Xiaohan Wang, Guozhen Ma, Lijie Xie, Dan Liu, Yanling Wang, Xinyu Zhao, Yingying Su, Andrei V. Perepelov, Peng Ding, Xiao Zhang, Bo Xu, Bin Liu* and Di Huang*



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Sébastien Lemouzy, Aliénor Delavarde, Frédéric Lamaty, Xavier Bantreil, Julien Pinaud and Sylvain Caillol*



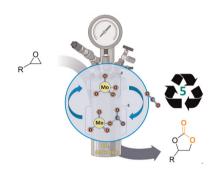
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Biocatalytic formal regio- and enantioselective Markovnikov hydroamination of aryl alkenes to chiral amines

Qi Jin, Jingqi Zhang, Shuangping Huang, Lili Gao, Honghong Chang and Jiandong Zhang*

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Molybdate ionic liquids as halide-free catalysts for CO₂ fixation into epoxides

Nicola Bragato, Alvise Perosa, Maurizio Selva, Giulia Fiorani* and Roberto Calmanti*

CORRECTION

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Correction: Sustainable pathway to furanics from biomass via heterogeneous organo-catalysis

Sanny Verma, R. B. Nasir Baig, Mallikarjuna N. Nadagouda, Christophe Len and Rajender S. Varma*