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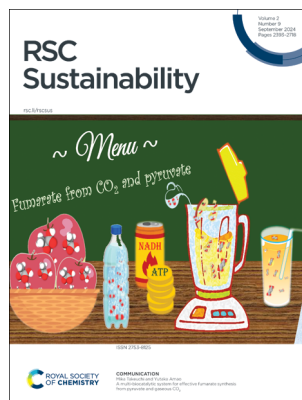
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See Hiroki Sakagami and Tetsuya Tsuda, pp. 2486–2490. Image reproduced by permission of Hiroki Sakagami and Tetsuya Tsuda from *RSC Sustainability*, 2024, 2, 2486.



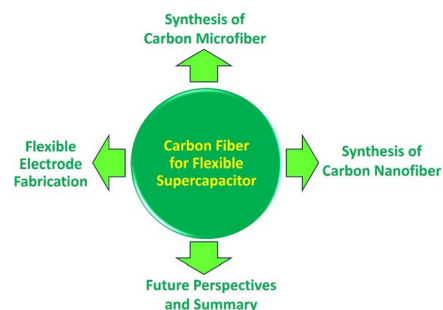
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CRITICAL REVIEWS

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Recent advancements in carbon fiber-based sustainable electrodes for flexible and wearable supercapacitors

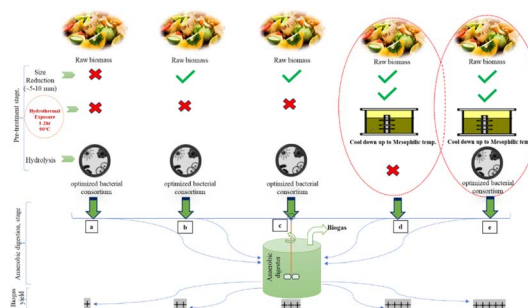
Susmi Anna Thomas, Jayesh Cherusseri* and Deepthi N. Rajendran*



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A comprehensive pre-treatment strategy evaluation of ligno-hemicellulosic biomass to enhance biogas potential in the anaerobic digestion process

Rajesh Kumar Prasad,* Anjali Sharma, Pranab Behari Mazumder and Anil Dhussa



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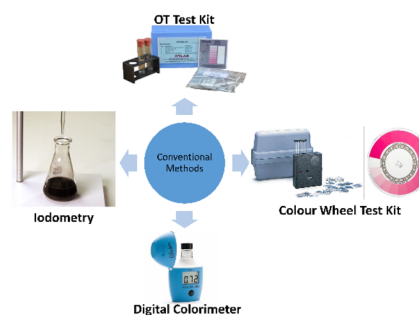
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Recent developments and sustainability in monitoring chlorine residuals for water quality control: a critical review

Yohanz Khor, A. R. Abdul Aziz and Su Sin Chong*

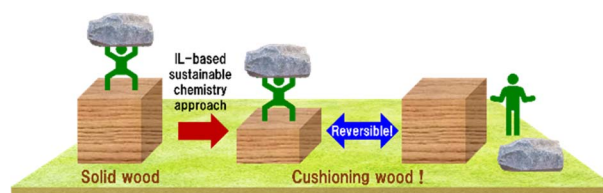


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Fabrication of biological cushioning materials with natural wood structure by an ionic liquid-based sustainable chemistry approach

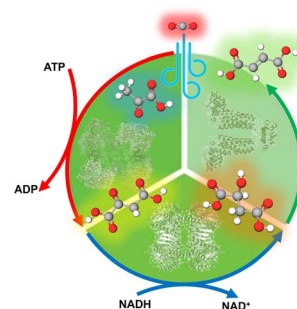
Hiroki Sakagami* and Tetsuya Tsuda*



2491

A multi-biocatalytic system for effective fumarate synthesis from pyruvate and gaseous CO₂

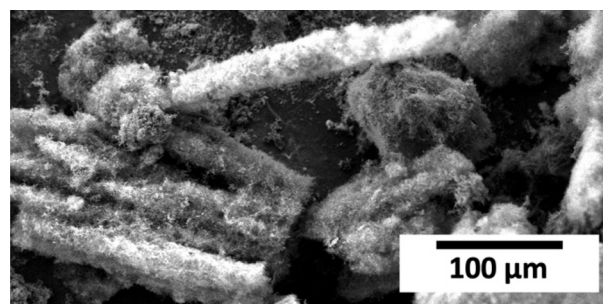
Mika Takeuchi and Yutaka Amao*



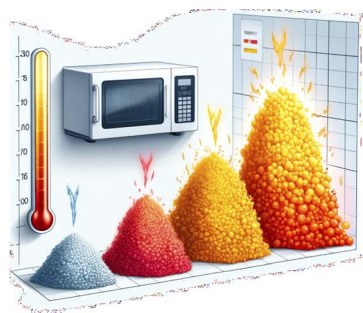
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Polymer composites with carbon nanotubes made from CO₂

Gad Licht, Kyle Hofstetter and Stuart Licht*



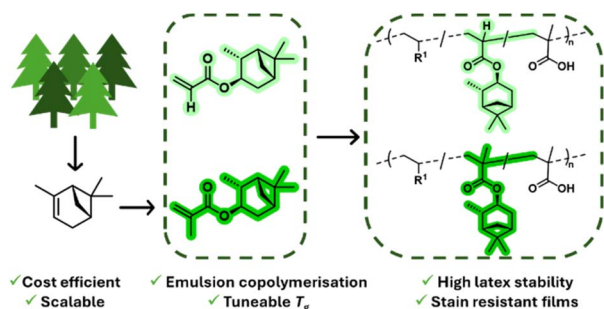
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Thermal approaches based on microwaves to recover lithium from spent lithium-ion batteries

A. Cornelio, A. Zanoletti, M. Scaglia, E. Galli, D. La Corte, G. Biava and E. Bontempi*

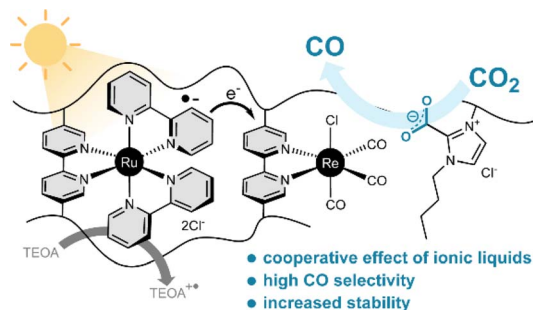
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Sustainable, upscaled synthesis of pinene-derived (meth)acrylates and their application as high T_g monomers in styrene/acrylic-based bioderived copolymer coatings

María Pin-Nó, Philippa L. Jacob, Vincenzo Taresco, Maud Kastelijn, Tijs Nabuurs, Chandres Surti, John Bilney, John Daly, Daniel J. Keddie, Steven M. Howdle* and Robert A. Stockman*

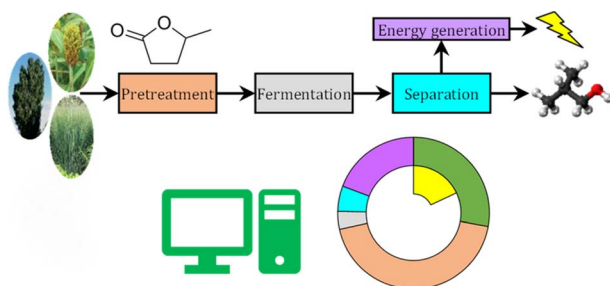
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Polymerized ionic liquid Co-catalysts driving photocatalytic CO_2 transformation

Lisa Eisele, Bletë Hulaj, Maximilian Podsednik, Francesco Laudani, Pablo Ayala, Alexey Cherevan, Annette Foelske, Andreas Limbeck, Dominik Eder* and Katharina Bica-Schröder*

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On the synthesis of biorefineries for high-yield isobutanol production: from biomass-to-alcohol experiments to system level analysis

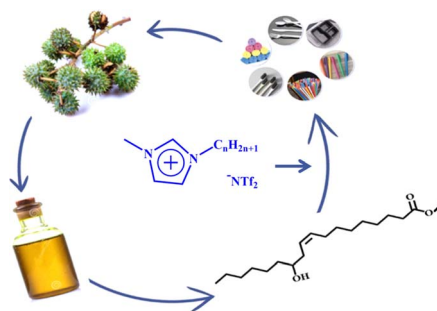
Arthur E. Pastore de Lima, Jason Coplien, Larry C. Anthony, Trey K. Sato, Yaoping Zhang, Steven D. Karlen, Chris Todd Hittinger and Christos T. Maravelias*



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Synthesis of high molecular weight poly(ricinoleic acid) via direct solution polycondensation in hydrophobic ionic liquids

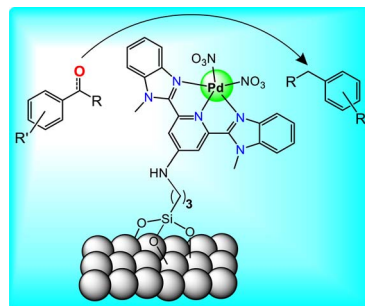
Lulu Wang, Hua Yuan, Xiaoli Ma, Zijin Li, Haowei Sun, Xiaoyan Zhang, Xiaoyu Huang, Qiaohong Peng* and Yejiang Tan*



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Selective hydrodeoxygenation of oxygenated aromatic molecules using a molecular palladium catalyst covalently bound to a solid SiO₂ support

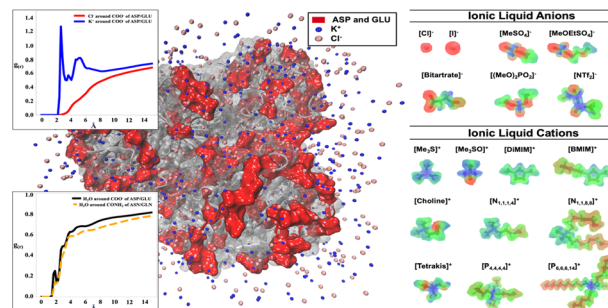
Jake G. Tillou, Joseph J. Kuchta, III, Nathan Thornburg, Santosh K. Balijepalli and Aaron K. Vannucci*



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Alexandra Schindl,* M. Lawrence Hagen, Isabel Cooley, Christof M. Jäger, Andrew C. Warden, Mischa Zelzer, Thorsten Allers and Anna K. Croft*



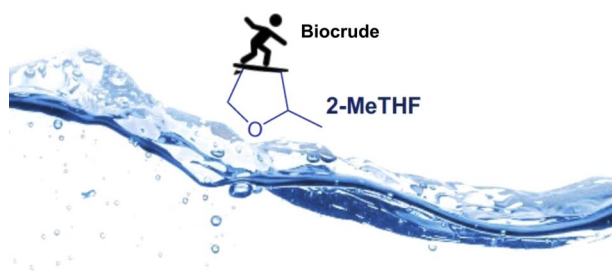
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Eco-friendly amidation of oxidized carbon black by dry ball milling

Aida Kiani, Marco Palumbo and Maria Rosaria Acocella*



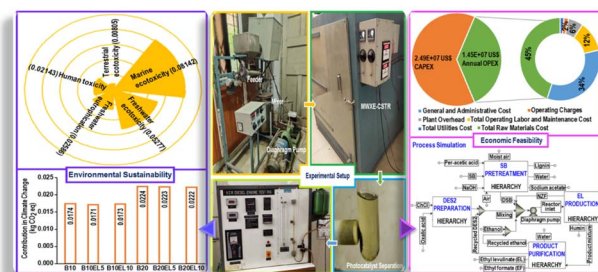
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Hydrothermal liquefaction of different waste biomass using green solvent 2-methyltetrahydrofuran as extractant and co-solvent

Yuen Wai Lui, Sze Ha Tsang, Tsz Hin Chan, Ka Hei Chan, Yin Hei Lee, Hoi Fung Man and Matthew Y. Lui*

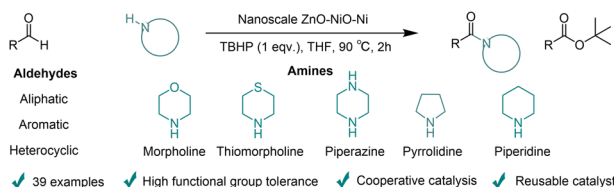
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Continuous drop-in-biofuel production from pretreated sugarcane bagasse in a microwave-visible irradiated continuous stirred slurry reactor: reaction kinetics & techno-enviro-economic sustainability analyses

Sourav Barman and Rajat Chakraborty*

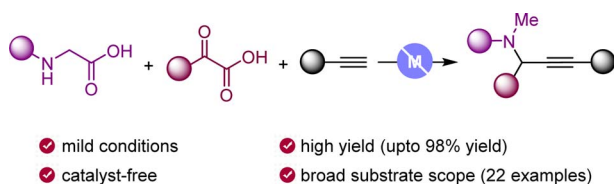
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A cooperative nanoscale ZnO–NiO–Ni heterojunction for sustainable catalytic amidation of aldehydes with secondary amines

Amishwar Raysing Shelte, Rahul Daga Patil and Sanjay Pratihar*

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Facile synthesis of propargylamines by metal-free doubly decarboxylative coupling

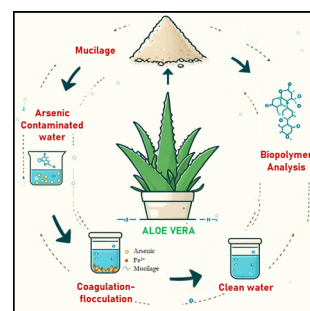
Junduo Hu, Xiaofan Shi, Liliang Huang,* Rongkang Zhang and Huangdi Feng*



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Aloe vera mucilage as a sustainable biopolymer flocculant for efficient arsenate anion removal from water

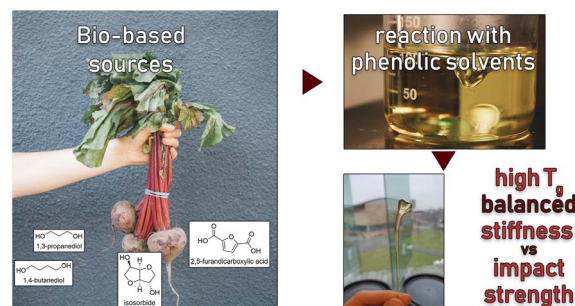
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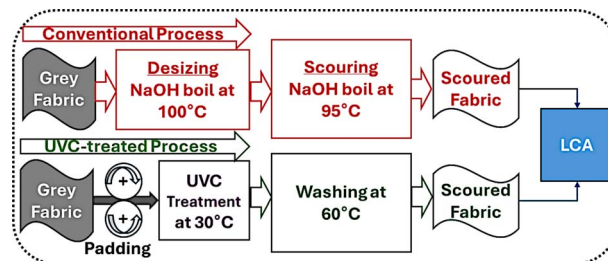
Bruno Bottega Pergher, Daniel H. Weinland, Robert-Jan van Putten and Gert-Jan M. Gruter*



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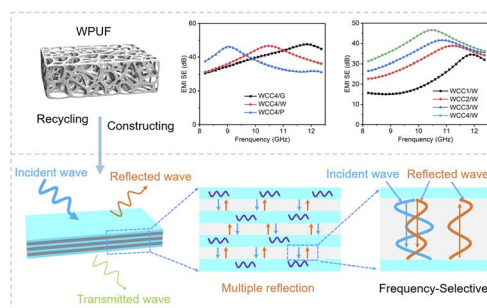
Sanjay Kumar Bhikari Charan Panda,* Samrat Mukhopadhyay and Kushal Sen



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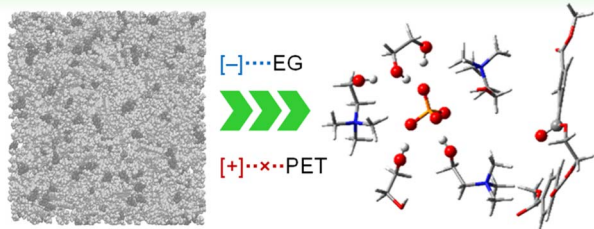
Multilayered frequency-selective and high-performance electromagnetic interference shielding materials derived from waste polyurethane foam

Jian Zhang, Qunhao Wang, Zehang Zhou, Zengyan Sui, Chao Wang* and Canhui Lu*



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PET glycolysis via ionic liquids... at atomic resolution



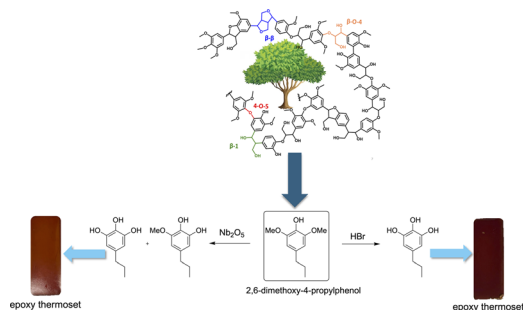
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Mohamed Ahmed Nosir and Manuel Angel Ortuño*

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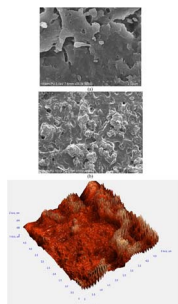
Melissa Sanchez, Peter C. Ford and Mahdi M. Abu-Omar*



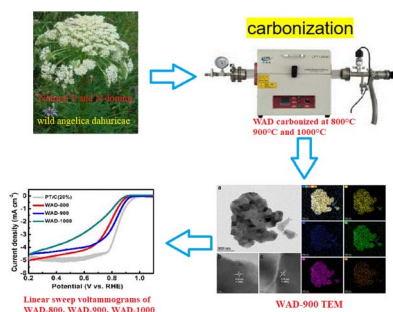
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Synthesis of hydrogels based on sterculia gum-co-poly(vinyl pyrrolidone)-co-poly(vinyl sulfonic acid) for wound dressing and drug-delivery applications

Ankita Kumari and Baljit Singh*



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Excellent phosphorus-doped porous carbon oxygen reduction reaction catalysts derived from natural wild *Angelica dahurica*

Wenhao Mo,* Xiaohua Tan and Lei Zhao

