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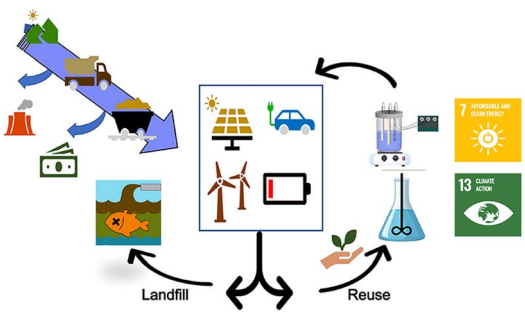
UN Sustainable Development Goals 7 and 13. How sustainable are the metals in our journey to clean energy storage?

Cristina Pozo-Gonzalo



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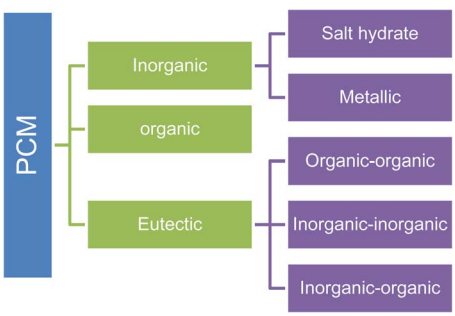
Tushar Kanti Maiti, Prakhar Dixit, Amit Suhag, Sakchi Bhushan, Aparna Yadav, Namita Talapatra and Sujay Chattopadhyay*



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CRITICAL REVIEWS

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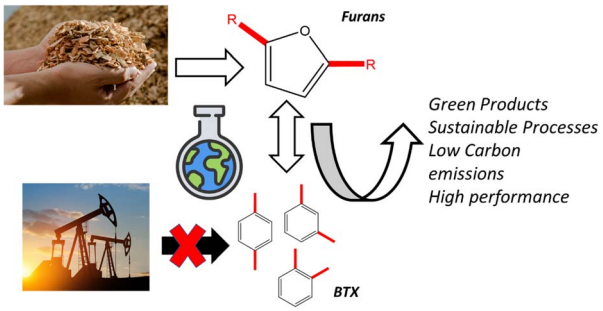
Bioderived furanic compounds as replacements for BTX in chemical intermediate applications

Amir Al Ghatta* and Jason P. Hallett*



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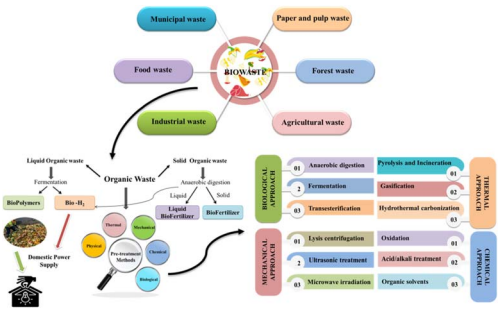
Bio-based agricultural products: a sustainable alternative to agrochemicals for promoting a circular economy

A. K. Priya, Avinash Alagumalai, Devarajan Balaji and Hua Song*



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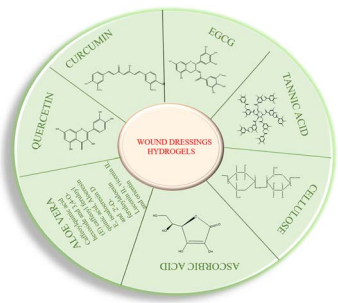
Supriya H., Sandeep Tripathi and Suryasarathi Bose*



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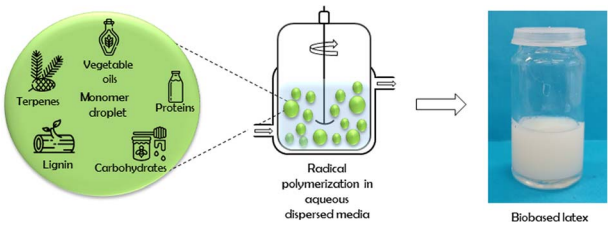

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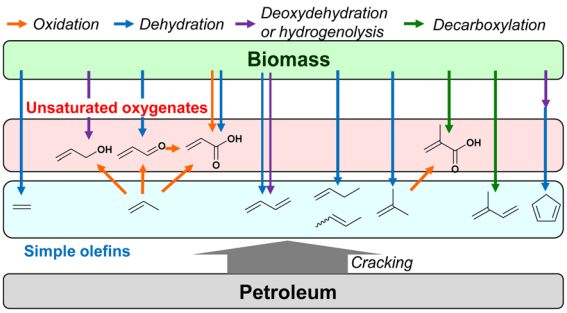

A perspective on catalytic production of olefinic compounds from biomass

Yoshinao Nakagawa,* Mizuho Yabushita and Keiichi Tomishige*

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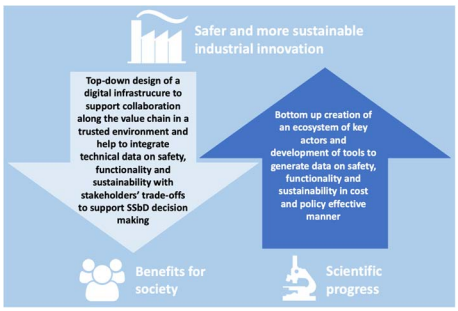

Safe-and-sustainable-by-design chemicals and advanced materials: a paradigm shift towards prevention-based risk governance is needed

Danail Hristozov,* Alex Zabeo, Lya G. Soeteman-Hernández, Lisa Pizzol and Stella Stoycheva

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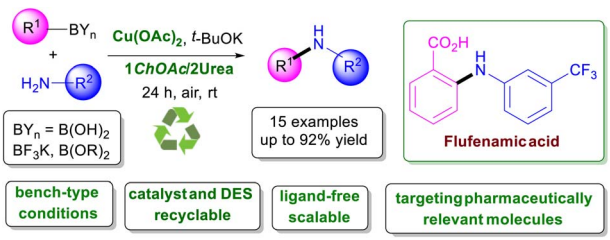

Cu-catalysed Chan–Evans–Lam reaction meets deep eutectic solvents: efficient and selective C–N bond formation under aerobic conditions at room temperature

Luciana Cicco, Paola Vitale, Filippo Maria Perna, Vito Capriati* and Joaquín García-Álvarez*

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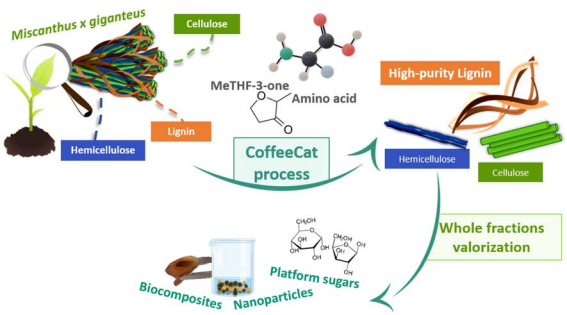

Revisiting organosolv strategies for sustainable extraction of valuable lignin: the CoffeeCat process

Marie E. Vuillemin, María Catalina Quesada-Salas, Caroline Hadad, Jordane Jasniewski, Eric Husson* and Catherine Sarazin*

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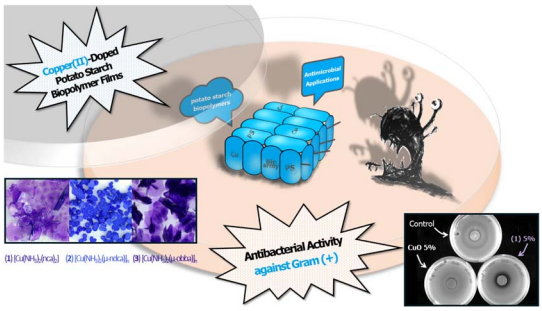
Degradable copper(II)-doped starch-based biopolymeric films with antibacterial activity

Kiryl I. Trusau, Paula Jorge, Ana Catarina Sousa, Tiago A. Fernandes, Vânia André, Marina V. Kirillova, Andrew I. Usevich, Nuno Cerca* and Alexander M. Kirillov*



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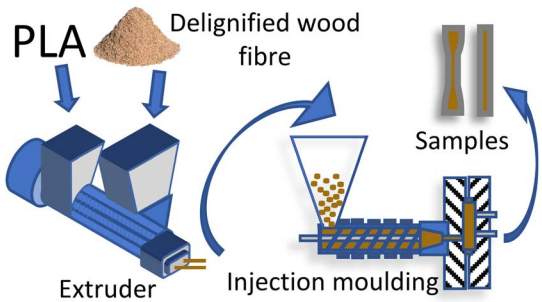
Renato Lemos Cosse, Vincent S. D. Voet, Rudy Folkersma and Katja Loos



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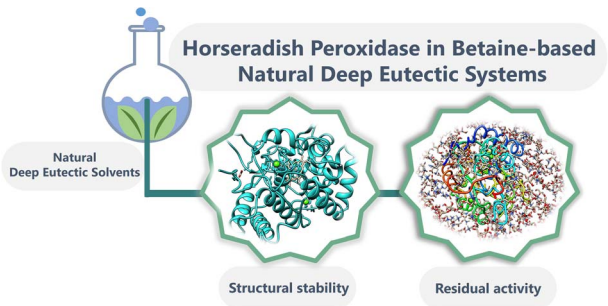
Liane Meneses, Nicolás F. Gajardo-Parra, Esteban Cea-Klapp, José Matías Garrido, Christoph Held, Ana Rita Duarte and Alexandre Paiva*



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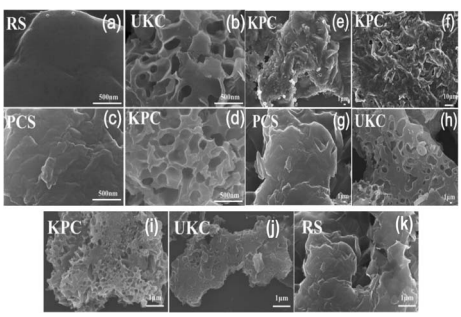
Adsorption of sulfate ions from water by $CaCl_2$-modified biochar derived from kelp

Bingbing Tian, Yalong Song, Rubin Wang, Yi Wang, Tianyang Wang, Jinhui Chu, Zhu Qiao, Min Li,* Jianjiang Lu* and Yanbin Tong



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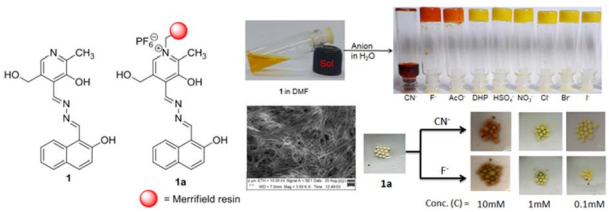

A new pyridoxal-derived gelator for selective recognition of CN^- and F^- under different conditions

Subhasis Ghosh, Nabajyoti Baildya and Kumaresh Ghosh*

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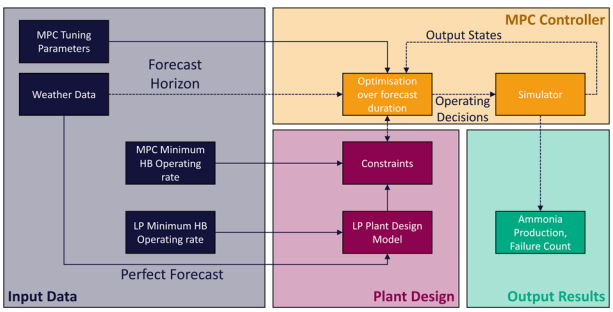

Impact of process flexibility and imperfect forecasting on the operation and design of Haber–Bosch green ammonia

Nicholas Salmon and René Bañares-Alcántara*

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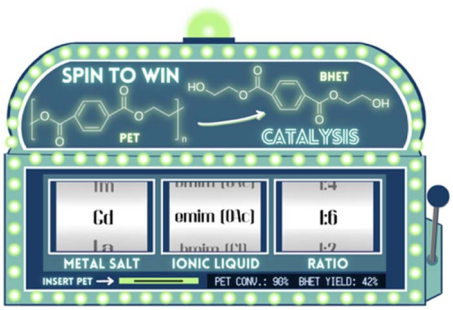

Understanding the important variables to optimize glycolysis of polyethylene terephthalate with lanthanide-containing ionic liquids

Nancy G. Bush, Caitlin H. Dinh, Casandrah L. Catterton and Megan E. Fieser*

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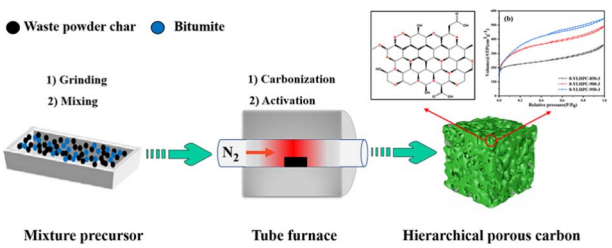

Facile synthesis of functionalized porous carbon from bitumite mixed with waste powder char for excellent wastewater purification

Yufeng Yin,* Yiting Zhao and Jing Wang

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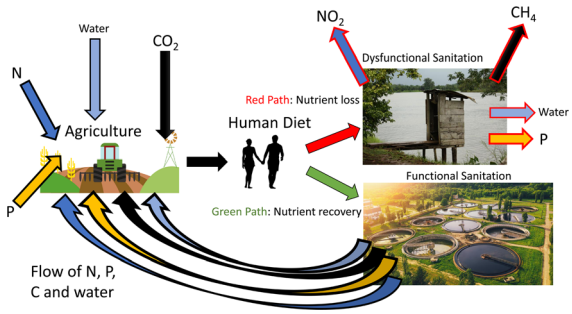
Will the circle be unbroken? The climate mitigation and sustainable development given by a circular economy of carbon, nitrogen, phosphorus and water

Patrick McKenna,* Fiona Zakaria, Jeremy Guest, Barbara Evans and Steven Banwart



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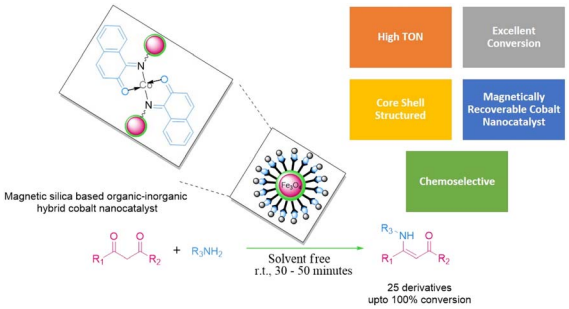
A versatile core–shell hetero-nanostructure catalysed chemo-selective synthesis of β-enamino carbonyl compounds

Sriparna Dutta, Prashant Kumar, Shivani Sharma, Sneha Yadav, Priyanka, Ranjana Dixit, Anju Srivastava and Rakesh Kumar Sharma*



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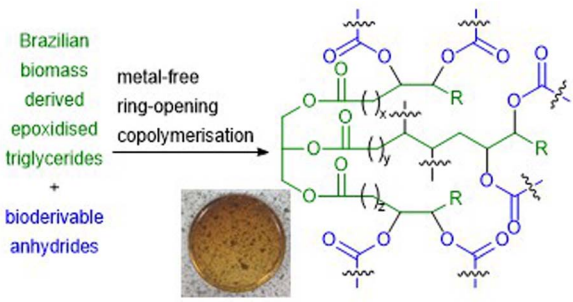
Highly crosslinked polyesters prepared by ring-opening copolymerization of epoxidized baru nut and macaw palm oils with cyclic anhydrides

Aaron L. Vermiglio, Rafael T. Alarcon, Éder T. G. Cavalheiro, Gilbert Bannach, Thomas J. Farmer* and Michael North*



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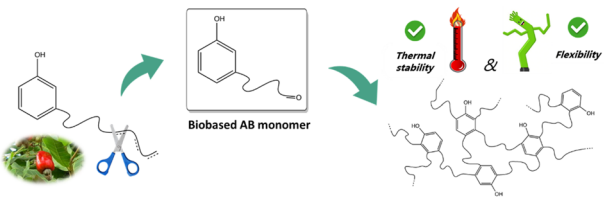
Eco-friendly synthesis of cardanol-based AB monomer for formaldehyde-free phenolic thermosets

Benoit Briou,* Lucas Jégo, Thomas De Dios Miguel, Nicolas Duguet* and Sylvain Caillol*



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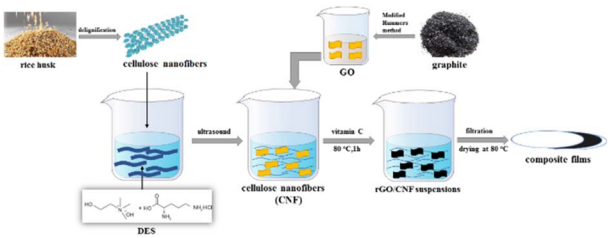

Deep eutectic solvent assisted preparation of cellulose nanofibers and graphene composite films for supercapacitors

Zhongzheng Ma, Yi Duan, Yongqi Deng, Hongdong Quan, Xiuguo Yang, Hongyan Li, Luqian Ye, Bingxia Xu and Lifeng Yan*

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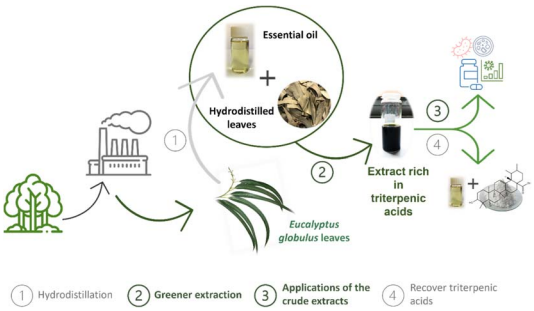

An integrated green process for the extraction of triterpenic acids from *Eucalyptus globulus* leaves after hydrodistillation

Cátia S. D. Oliveira, Patrícia Moreira, Maria T. Cruz, Cláudia M. F. Pereira, Alexandre Gaspar, Carlos Pascoal Neto, Paula C. R. O. Pinto, Pedro Costa Branco, Artur M. S. Silva, Sónia A. O. Santos* and Armando J. D. Silvestre

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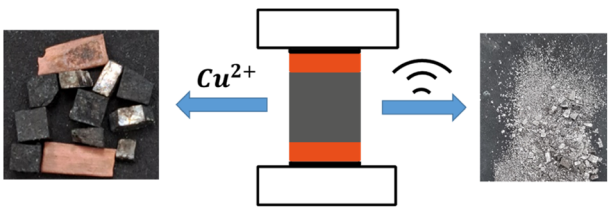

Targeted recovery of metals from thermoelectric generators (TEGs) using chloride brines and ultrasound

Guillaume Zante,* Evangelia Daskalopoulou, Christopher E. Elgar, Rodolfo Marin Rivera, Jennifer M. Hartley, Kevin Simpson, Richard Tuley, Jeff Kettle and Andrew P. Abbott

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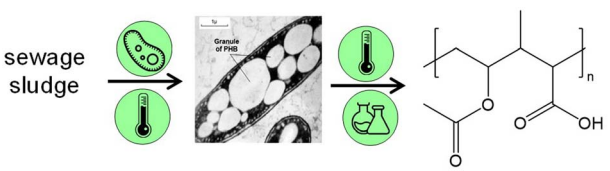

Poly(vinyl acetate-*co*-crotonic acid) from bio-based crotonic acid: synthesis, characterization and carbon footprint evaluation

Alexandra Jorea, Adriano Parodi, Tiziana Benelli, Luca Ciacci, Maurizio Fagnoni, Paola Galletti, Laura Mazzocchetti, Davide Ravelli, Cristian Torri, Ivano Vassura and Chiara Samori*

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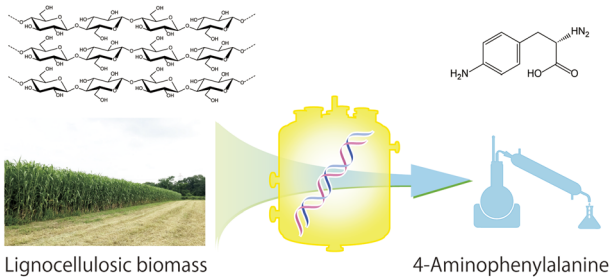
Metabolic engineering for 4-aminophenylalanine production from lignocellulosic biomass by recombinant *Escherichia coli*

Hideo Kawaguchi, Shunsuke Masuo, Keiko Wakai, Naoki Takaya, Tomohisa Hasunma, Tatsuo Kaneko, Satoshi Okada, Takashi Sazuka, Chiaki Ogino* and Akihiko Kondo



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