# RSC Sustainability

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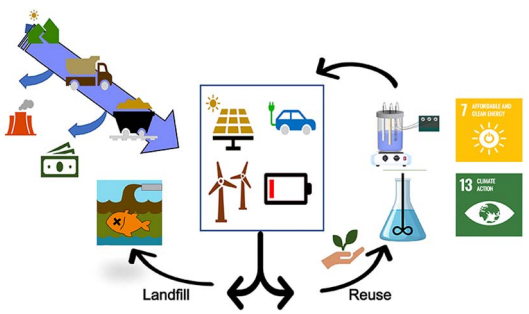
**Inside cover**
See Nuno Cerca, Alexander M. Kirillov *et al.*, pp. 866–875. Image reproduced by permission of Alexander M. Kirillov from *RSC. Sustainability.*, 2023, **1**, 866.

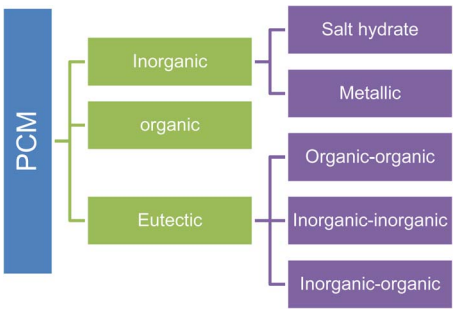
## EDITORIAL






## CRITICAL REVIEWS





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# RSC Sustainability

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*RSC Sustainability* publishes experimental and theoretical work across the breadth of materials science.



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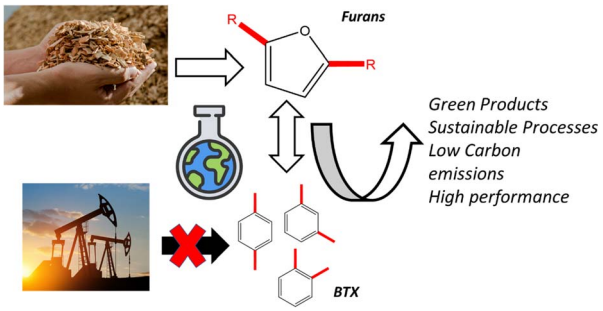
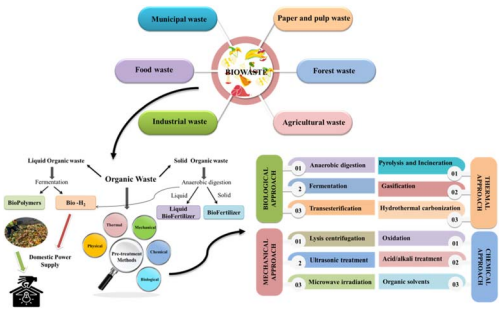
## CRITICAL REVIEWS

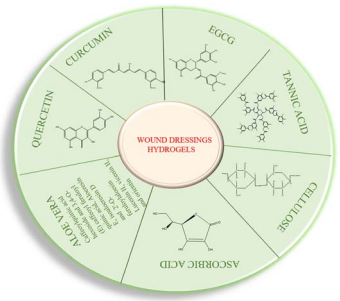






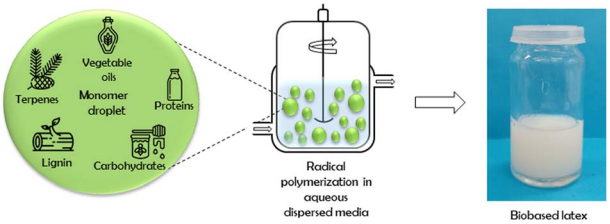





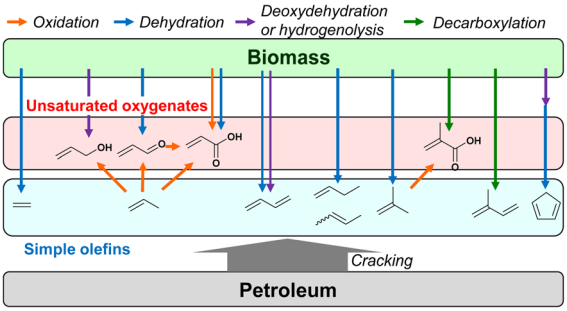

## TUTORIAL REVIEW





## PERSPECTIVES

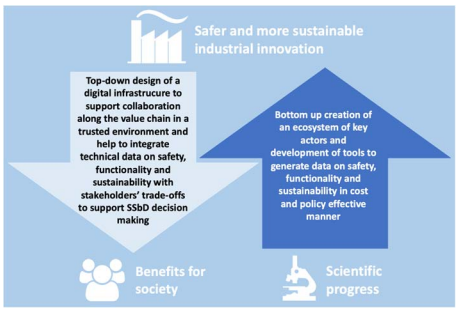





### A perspective on catalytic production of olefinic compounds from biomass

Yoshinao Nakagawa,* Mizuho Yabushita and Keiichi Tomishige*



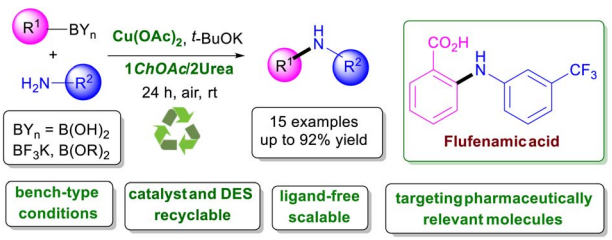



### Safe-and-sustainable-by-design chemicals and advanced materials: a paradigm shift towards prevention-based risk governance is needed

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

## COMMUNICATION



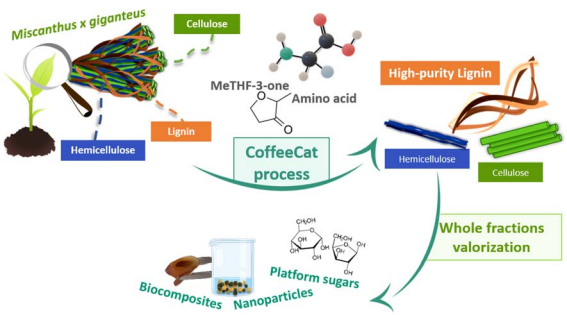



### Cu-catalysed Chan–Evans–Lam reaction meets deep eutectic solvents: efficient and selective C–N bond formation under aerobic conditions at room temperature

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

## PAPERS






### 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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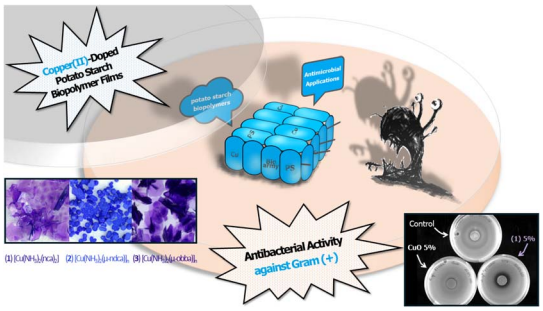




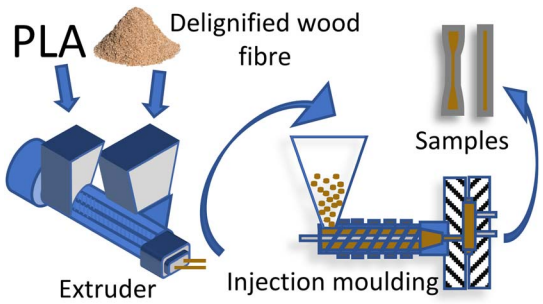




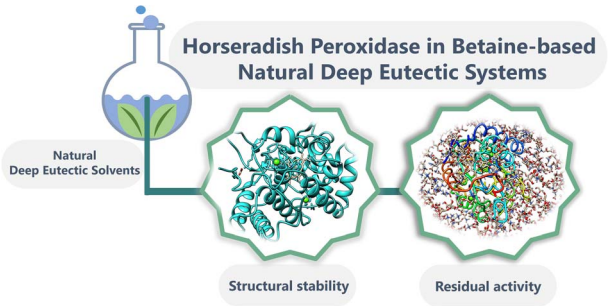




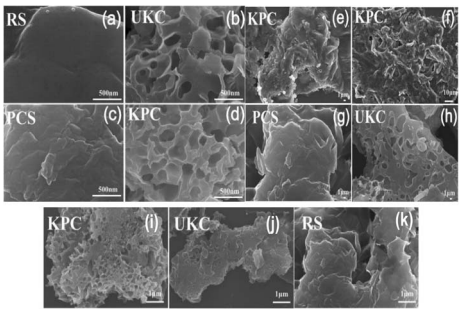

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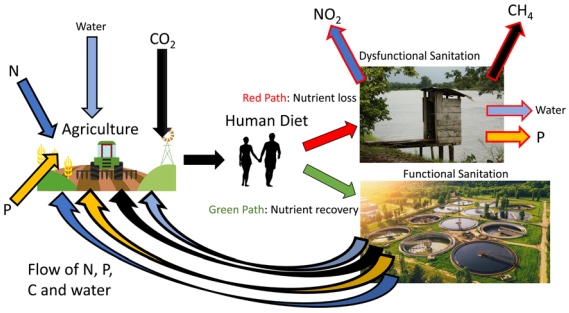
## Will the circle be unbroken? The climate mitigation and sustainable development given by a circular economy of carbon, nitrogen, phosphorus and water

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

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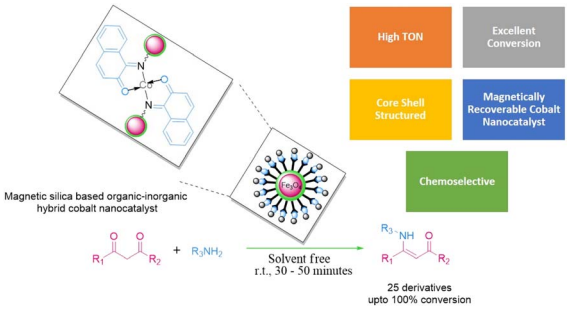
## A versatile core–shell hetero-nanostructure catalysed chemo-selective synthesis of β-enamino carbonyl compounds

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

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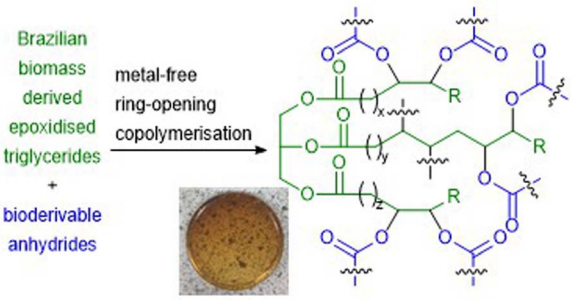
## Highly crosslinked polyesters prepared by ring-opening copolymerization of epoxidized baru nut and macaw palm oils with cyclic anhydrides

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

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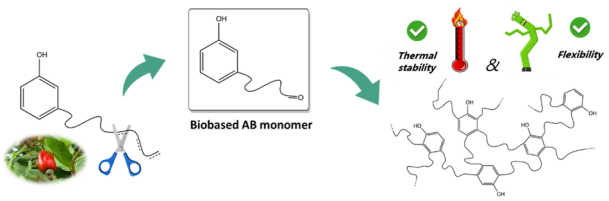
## Eco-friendly synthesis of cardanol-based AB monomer for formaldehyde-free phenolic thermosets

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



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## 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