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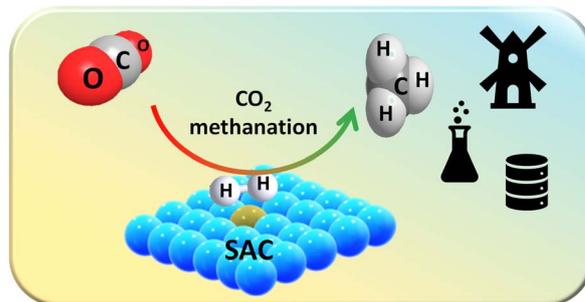
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See Iseult Lynch *et al.*, pp. 1378–1399. Image reproduced by permission of Iseult Lynch from *RSC Sustainability.*, 2024, 2, 1378.

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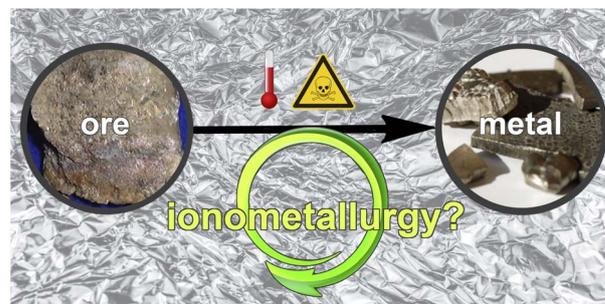
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Janine Richter and Michael Ruck*



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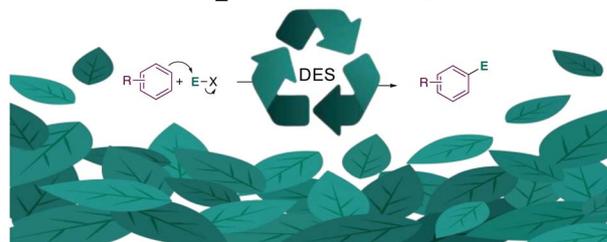


CRITICAL REVIEWS

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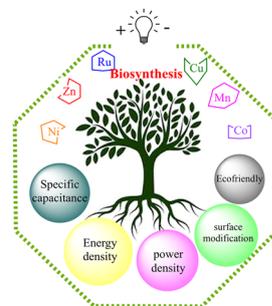
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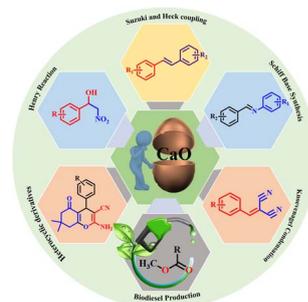
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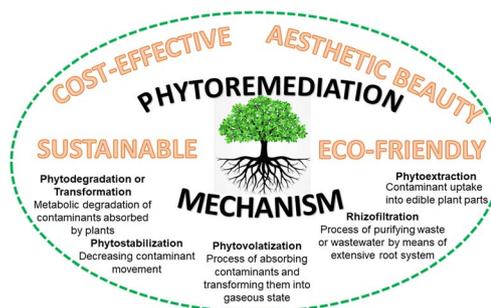
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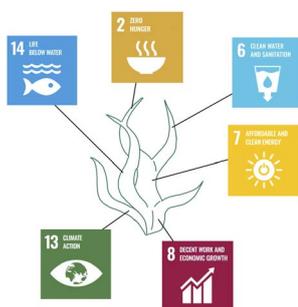
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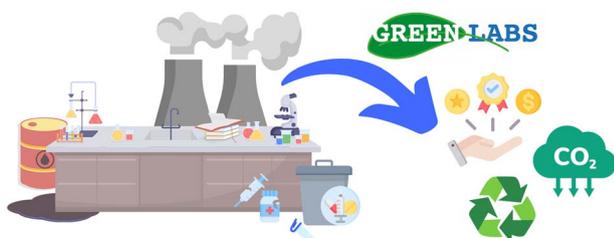


The Sea's best kept secret: the use of seaweed as a source of biohydrogen for clean and renewable energy

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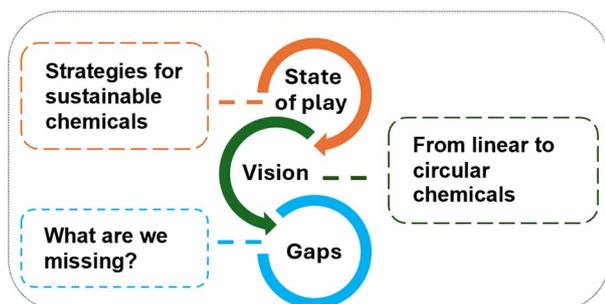
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The relevance of sustainable laboratory practices

Thomas Freese, Nils Elzinga, Matthias Heinemann, Michael M. Lerch* and Ben L. Feringa*

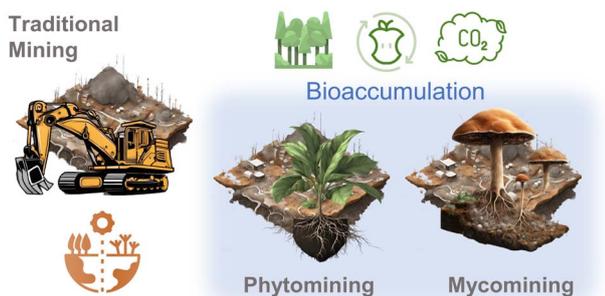
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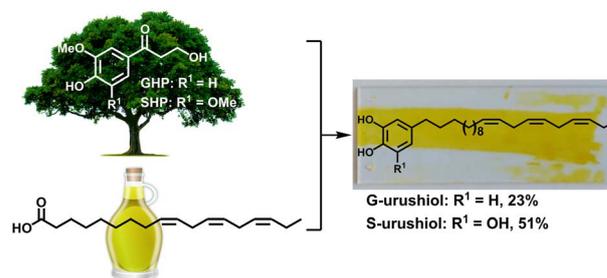


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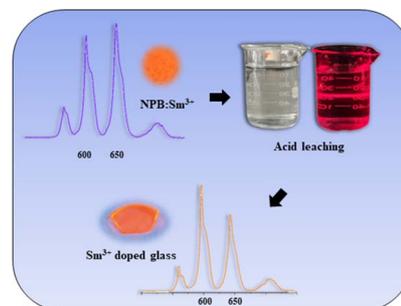
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Phosphate-based phosphor for the urban mining of lanthanides: a case study of samarium

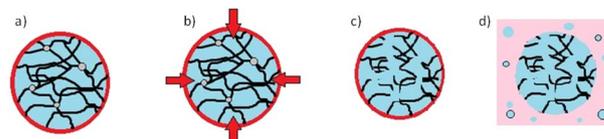
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Maximizing polypropylene recovery from waste carpet feedstock: a solvent-driven pathway towards circular economy

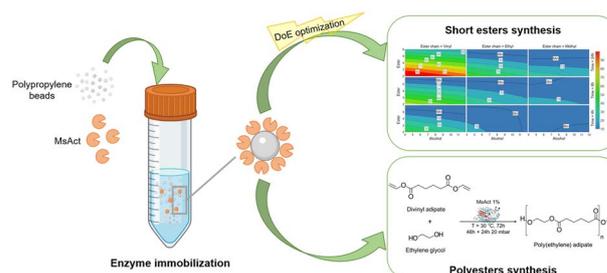
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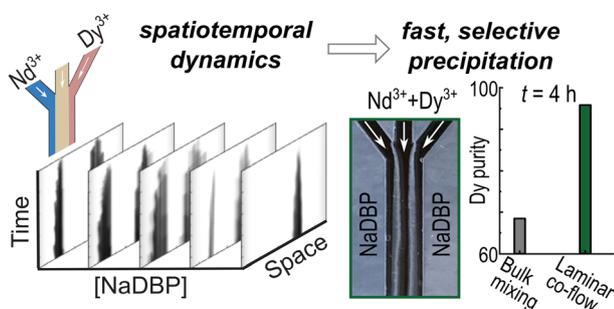
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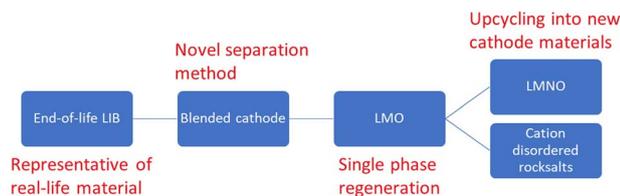
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Flow-driven enhancement of neodymium and dysprosium separation from aqueous solutions

Qingpu Wang and Chinmayee V. Subban*

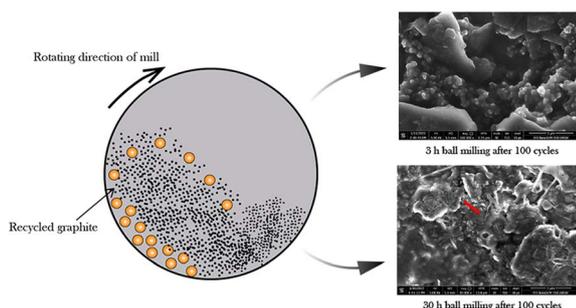
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Upcycling of low value end-of-life cathode material into next generation cathode materials

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Spent graphite from lithium-ion batteries: re-use and the impact of ball milling for re-use

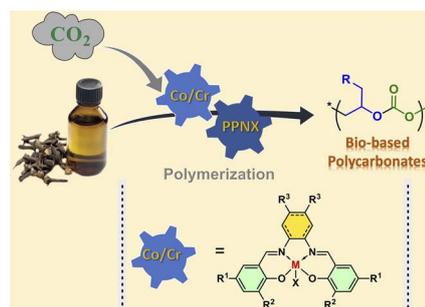
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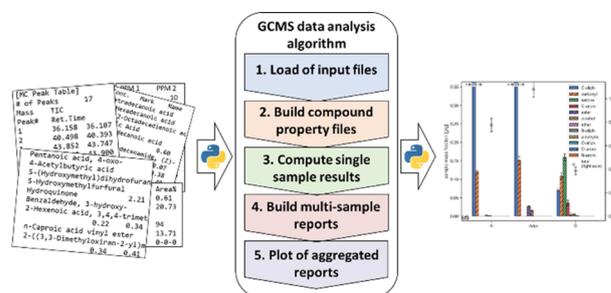
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Open-source Python module to automate GC-MS data analysis developed in the context of bio-oil analyses

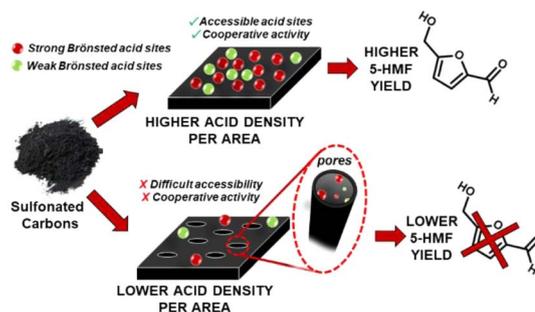
Matteo Pecchi* and Jillian L. Goldfarb



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Tailored sulfonated carbons: unraveling enhanced catalytic dynamics for fructose dehydration under conventional and microwave heating

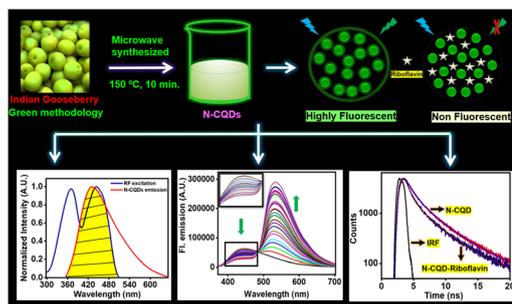
Gabrielle Mathias Reis, Letícia Ferreira Lima Machado, Renan Silva Nunes, Dalmo Mandelli and Wagner Alves Carvalho*



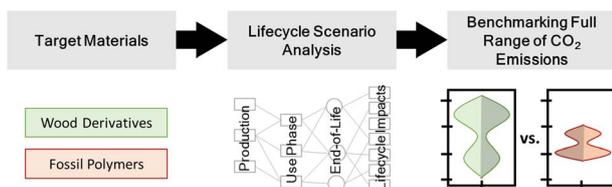
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Green transformation of biomass-derived Indian gooseberry into fluorescent intrinsic nitrogen-functionalized carbon quantum dots for real-time detection of vitamin B₂ in the nanomolar range

Mandeep Kaur, Mily Bhattacharya* and Banibrata Maity*



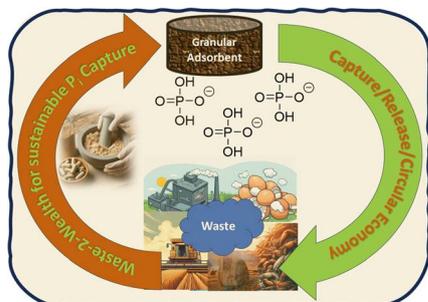
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Unraveling the climate neutrality of wood derivatives and biopolymers

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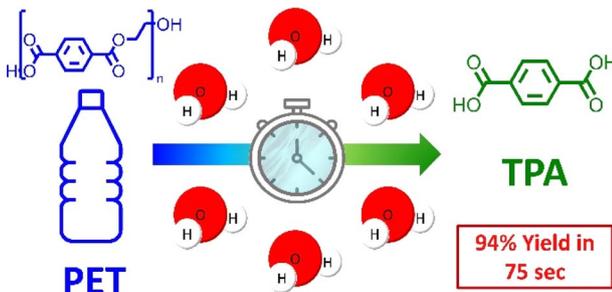
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Eggshell incorporated agro-waste adsorbent pellets for sustainable orthophosphate capture from aqueous media

Bernd G. K. Steiger, Nam T. Bui, Bolanle M. Babalola and Lee D. Wilson*

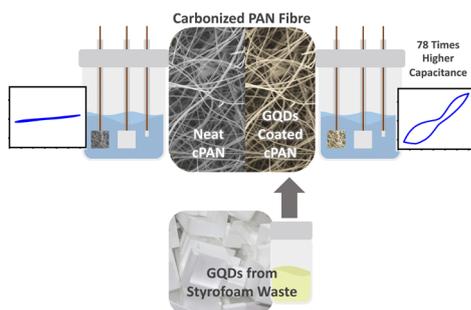
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Fast hydrolysis for chemical recycling of polyethylene terephthalate (PET)

Patrícia Pereira, Willem Slear, Angelo Testa, Kevin Reasons, Peter Guirguis, Phillip E. Savage* and Christian W. Pester*

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GQD-PAN-based high-performance supercapacitor: an approach towards wealth from waste

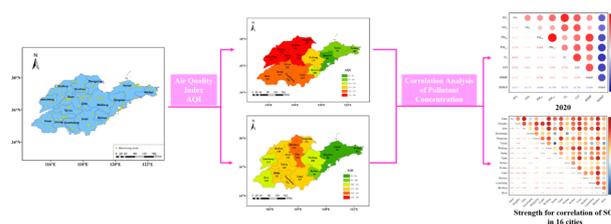
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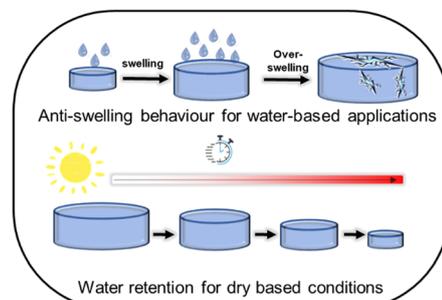
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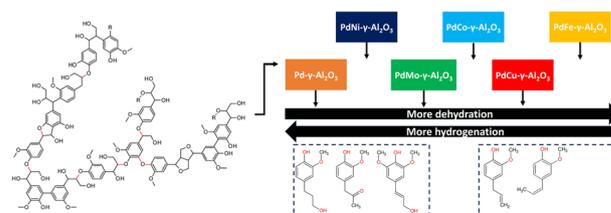
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Enhancing the performance of heterogeneous palladium based catalysts in the mild reductive depolymerization of soda lignin through addition of a non-noble metal and tuning of the preparation strategy

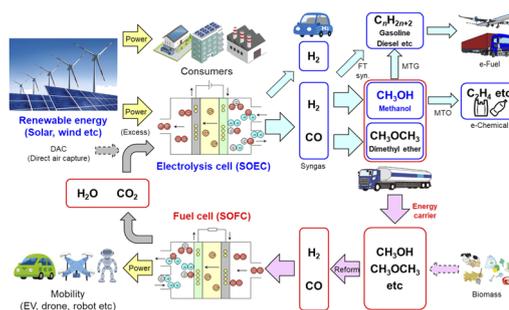
Tibo De Saegher, Boyana Atanasova, Pieter Vermeir, Kevin M. Van Geem, Jeriffa De Clercq, An Verberckmoes and Jeroen Lauwaert*



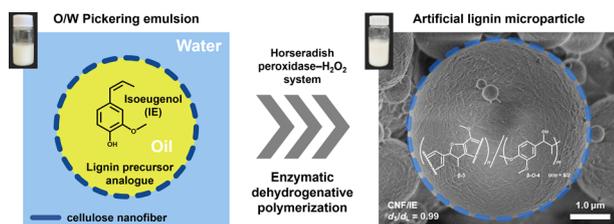
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Co-electrolysis SOEC and internal reforming SOFC for achieving a carbon-neutral society

Hirofumi Sumi*



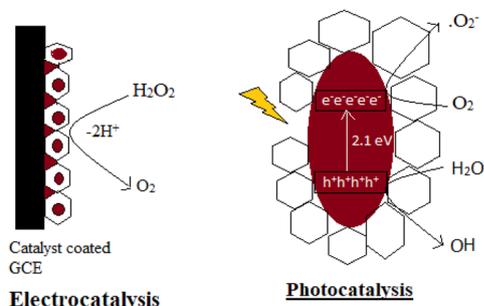
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Synthesis and structural design of microspheres comprising cellulose nanofibers and artificial lignin polymer by enzyme-mediated Pickering emulsion templating

Yuna Tanaka, Qi Li, Mayumi Hatakeyama and Takuya Kitaoka*

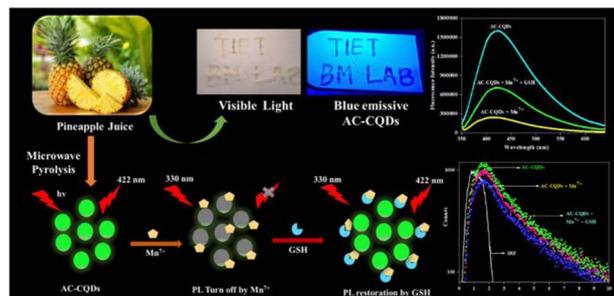
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Synthesis of a high dielectric constant graphene supported iron oxide and its electrocatalytic activity in a H₂O₂ fuel cell and as an efficient photocatalyst

Madhavi D. Shete* and J. B. Fernandes

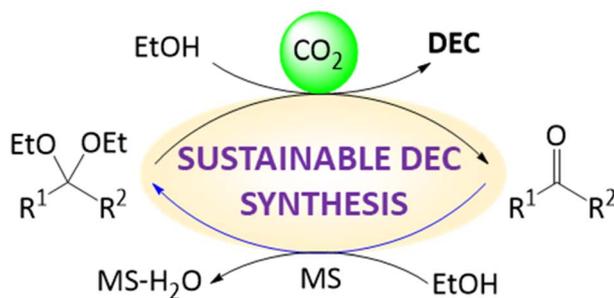
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Sustainable synthesis of carbon dots from *Ananas Comosus* as renewable biomass: nanomolar level detection of glutathione

Mallika Phull, Amjad Ali and Banibrata Maity*

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Sustainable synthesis of diethyl carbonate from carbon dioxide and ethanol featuring acetals as regenerable dehydrating agents

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