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See Michael M. Lerch, Ben L. Feringa *et al.*, pp. 1300–1336. Image reproduced by permission of A. Guinart and T. Freese from *RSC. Sustainability.*, 2024, **2**, 1300.

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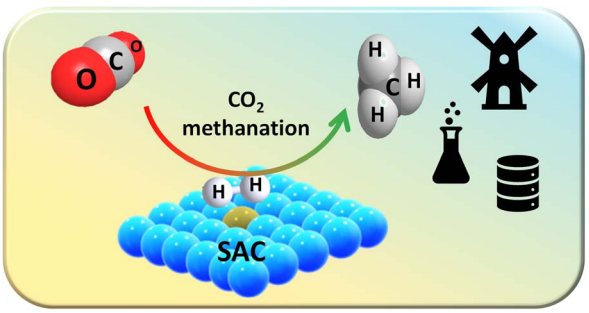
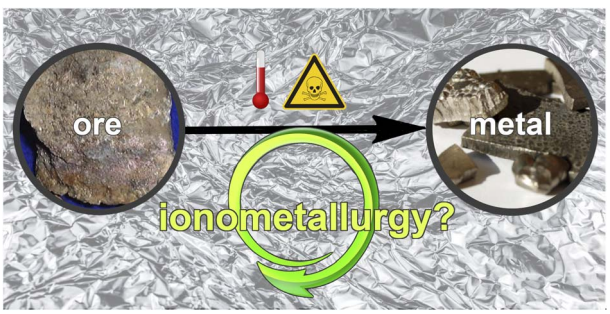
See Iseult Lynch *et al.*, pp. 1378–1399. Image reproduced by permission of Iseult Lynch from *RSC. Sustainability.*, 2024, **2**, 1378.

CRITICAL REVIEWS





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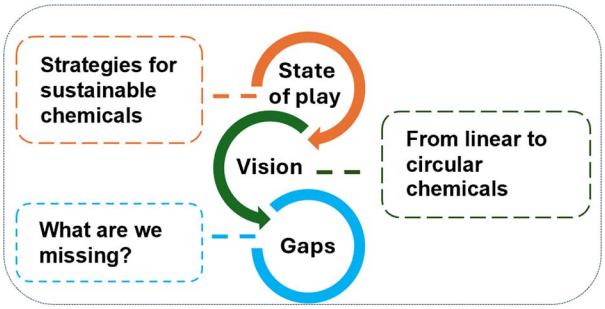
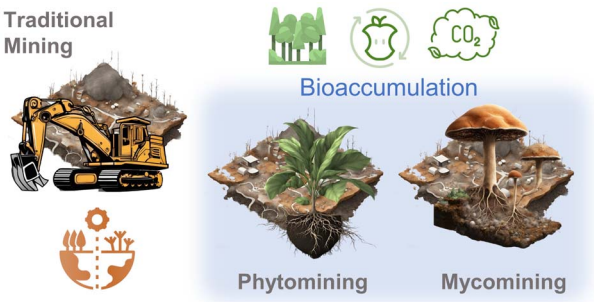
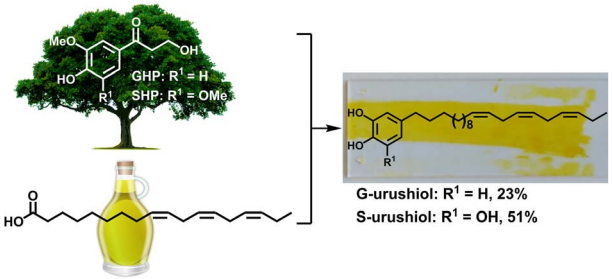
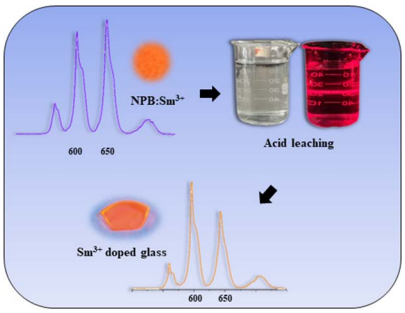
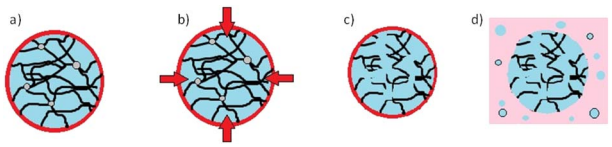


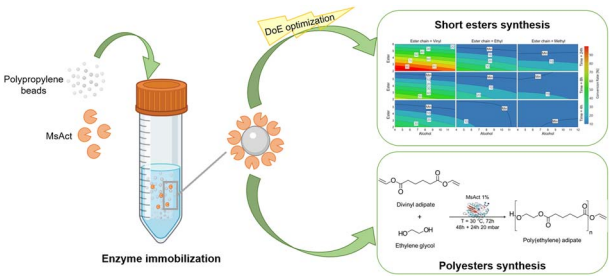


COMMUNICATIONS









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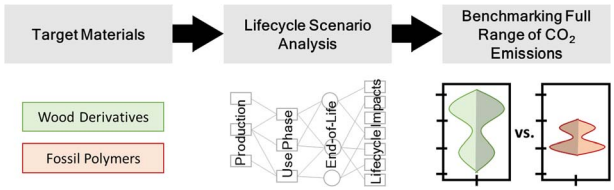

Unraveling the climate neutrality of wood derivatives and biopolymers

Akshat Sudheshwar, Kealie Vogel, Gustav Nyström, Nadia Malinverno, Monica Arnaudo, Carlos Enrique Gómez Camacho, Didier Beloin-Saint-Pierre, Roland Hischier and Claudia Som*

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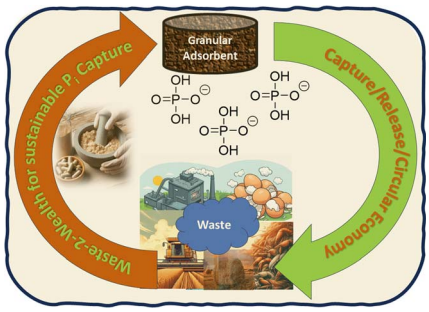

Eggshell incorporated agro-waste adsorbent pellets for sustainable orthophosphate capture from aqueous media

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

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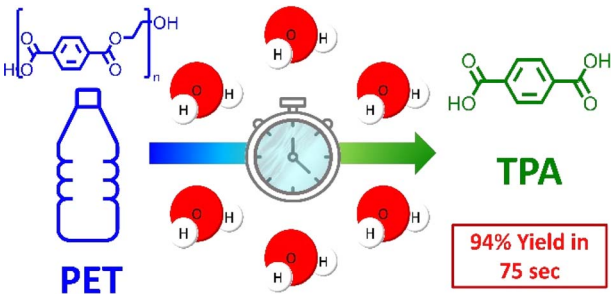

Fast hydrolysis for chemical recycling of polyethylene terephthalate (PET)

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

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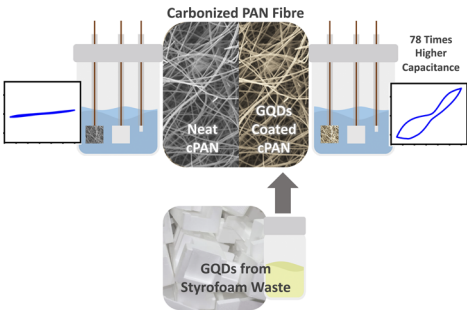

GQD-PAN-based high-performance supercapacitor: an approach towards wealth from waste

Dheeraj Kumar, Ekta Vashishth, Sweety Rani, Advitiya Kumar, Bhanu Nandan, Supreet Singh Bahga and Rajiv K. Srivastava*

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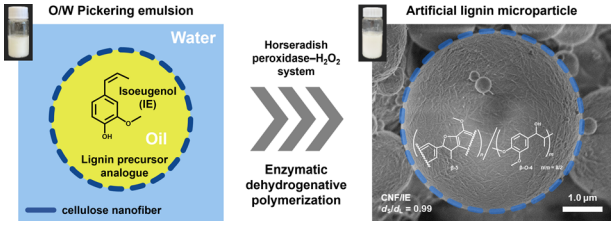

Synthesis and structural design of microspheres comprising cellulose nanofibers and artificial lignin polymer by enzyme-mediated Pickering emulsion templating

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

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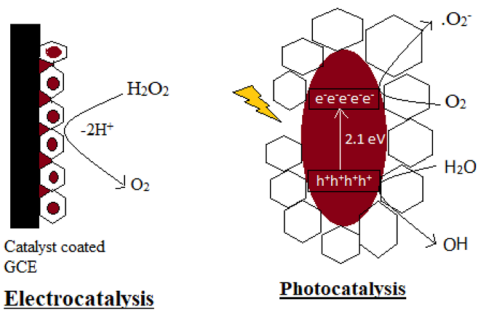

Synthesis of a high dielectric constant graphene supported iron oxide and its electrocatalytic activity in a H_2O_2 fuel cell and as an efficient photocatalyst

Madhavi D. Shete* and J. B. Fernandes

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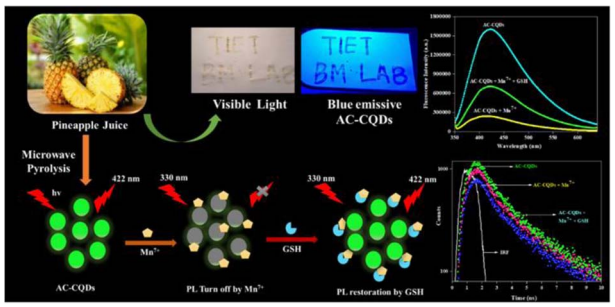

Sustainable synthesis of carbon dots from *Ananas Comosus* as renewable biomass: nanomolar level detection of glutathione

Mallika Phull, Amjad Ali and Banibrata Maity*

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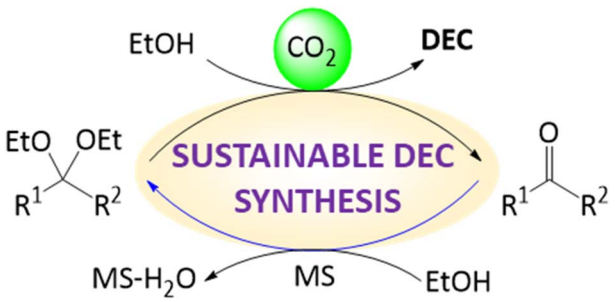

Sustainable synthesis of diethyl carbonate from carbon dioxide and ethanol featuring acetals as regenerable dehydrating agents

Wahyu S. Putro, Seiichiro Ijima, Seiji Matsumoto, Satoshi Hamura, Mizuho Yabushita, Keiichi Tomishige, Norihisa Fukaya* and Jun-Chul Choi*