

# RSC Sustainability

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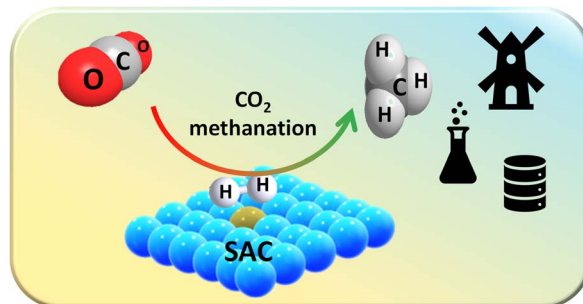
**Inside cover**  
See Iseult Lynch *et al.*, pp. 1378–1399. Image reproduced by permission of Iseult Lynch from *RSC Sustainability.*, 2024, 2, 1378.

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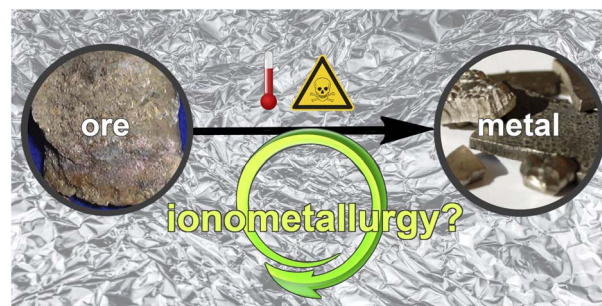
Neha Choudhary, Kallayi Nabeela, Nirmiti Mate and Shaikh M. Mobin\*



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Janine Richter and Michael Ruck\*



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## CRITICAL REVIEWS

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**Electrophilic aromatic substitution in eutectic-type mixtures: from an old concept to new sustainable horizons**

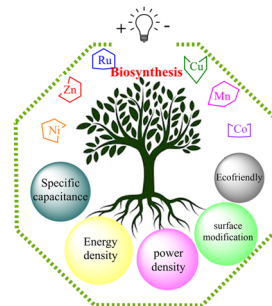
Tatiana Martí, Xavier Marset,\* Celia Guillem, Diego J. Ramón and Gabriela Guillena\*

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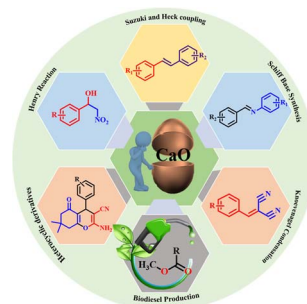
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**Biogenic derived egg shell and its derivatives as solid base heterogeneous catalysts for organic transformations: a comprehensive review**

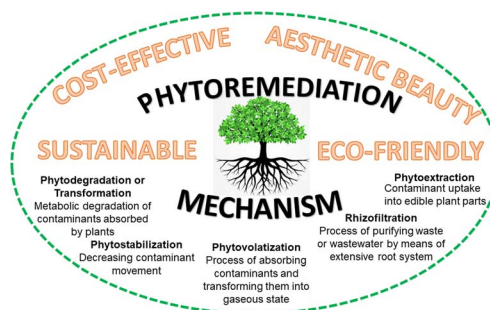
Nagaraj S. Naik,\* Swathi Divakar, Jyothi M. S., Srinivasa Budagumpi, R. Geetha Balakrishna and Mahesh Padaki\*



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Md. Merajul Islam,\* Neha Saxena and Deepa Sharma



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Olivia M. Wyper, Sohrab Zendejboudi and Francesca M. Kerton\*

## PERSPECTIVES

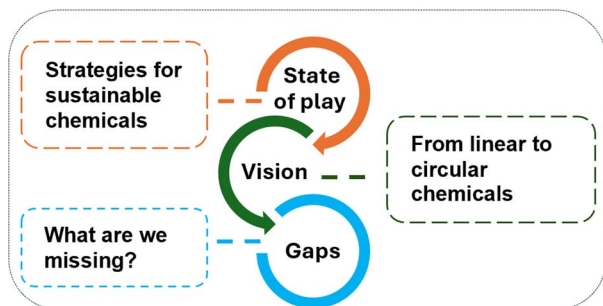
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### The relevance of sustainable laboratory practices

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

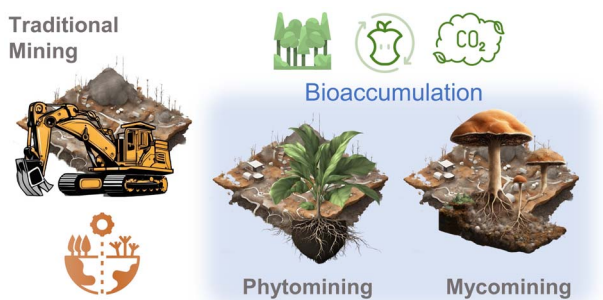
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Matthew Royle, Benoît Chachuat, Bing Xu and Elizabeth A. Gibson\*

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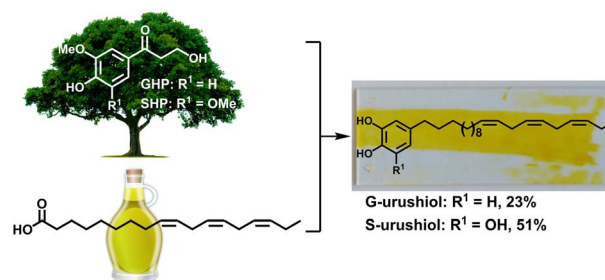
Mitchell P. Jones\* and Alexander Bismarck\*



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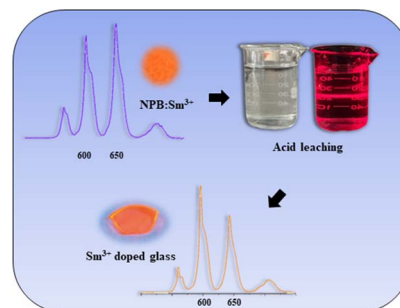
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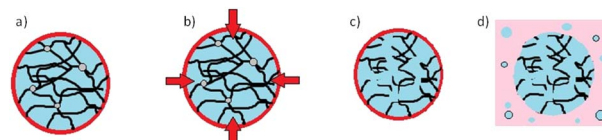
Yonglin Chen, Haoyi Wu\* and Yihua Hu\*



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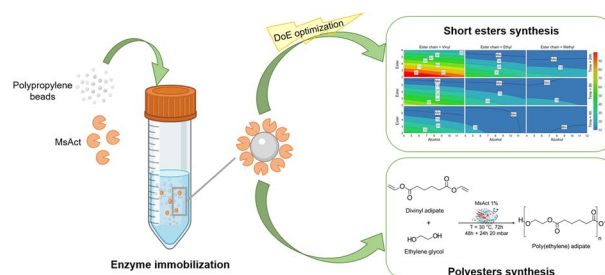
Heider Salazar, Ioan-Alexandru Baragau, Zhen Lu, Luis A. Román-Ramírez and Suela Kellici\*



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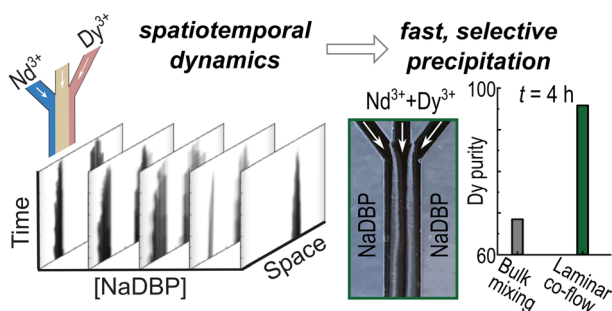
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## The role of FAIR nanosafety data and nanoinformatics in achieving the UN sustainable development goals: the NanoCommons experience

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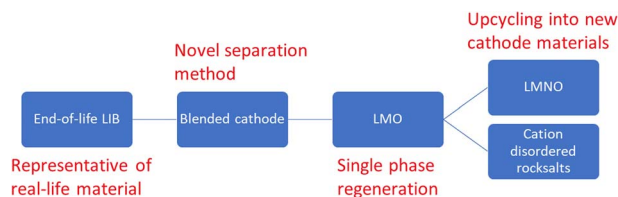
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## Flow-driven enhancement of neodymium and dysprosium separation from aqueous solutions

Qingpu Wang and Chinmayee V. Subban\*

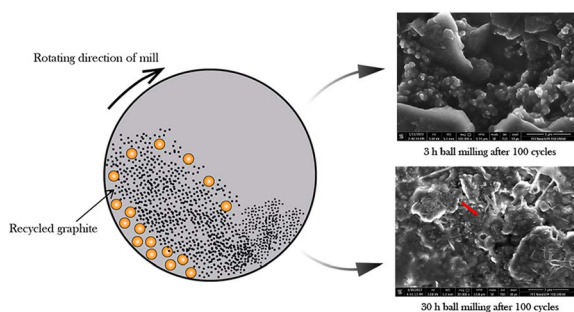
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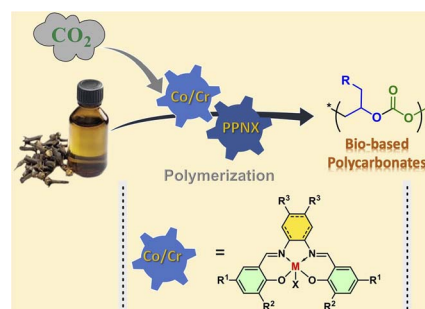
Jian Peng, Stefanie Maslek and Neeraj Sharma\*



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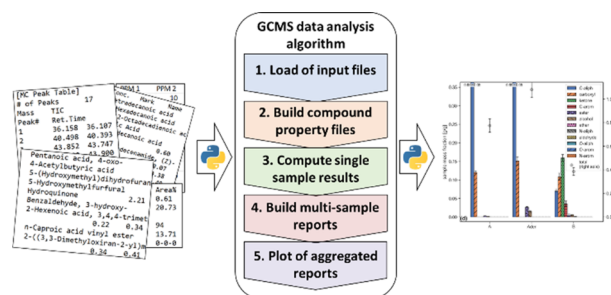
Mani Sengoden, Gulzar A. Bhat,\* Tristan Roland, Chia-Min Hsieh and Donald J. Darensbourg\*



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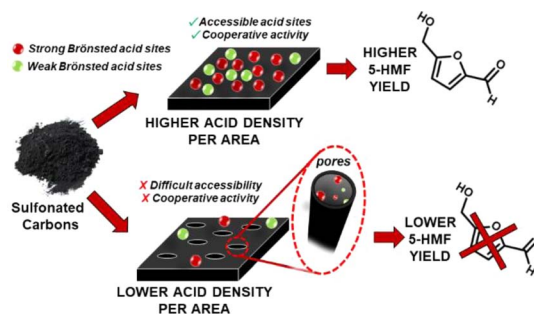
Matteo Pecchi\* and Jillian L. Goldfarb



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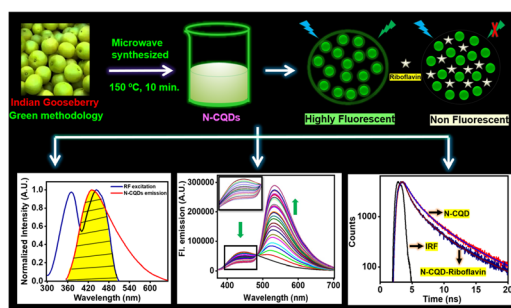
Gabrielle Mathias Reis, Letícia Ferreira Lima Machado, Renan Silva Nunes, Dalmo Mandelli and Wagner Alves Carvalho\*



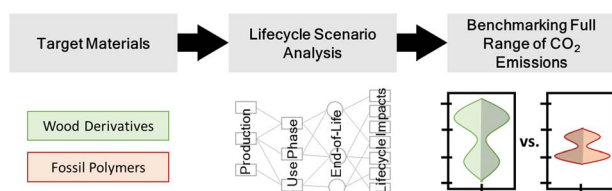
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### Green transformation of biomass-derived Indian gooseberry into fluorescent intrinsic nitrogen-functionalized carbon quantum dots for real-time detection of vitamin B<sub>2</sub> in the nanomolar range

Mandeep Kaur, Mily Bhattacharya\* and Banibrata Maity\*



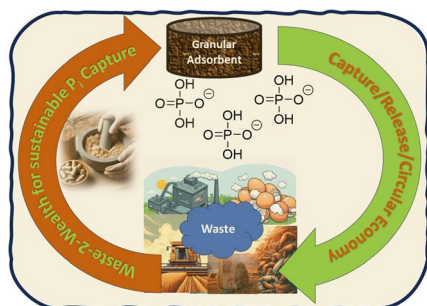
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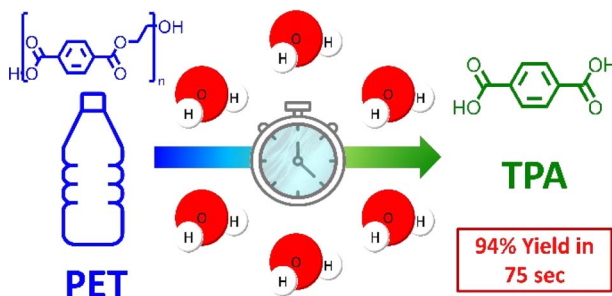
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### Eggshell incorporated agro-waste adsorbent pellets for sustainable orthophosphate capture from aqueous media

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

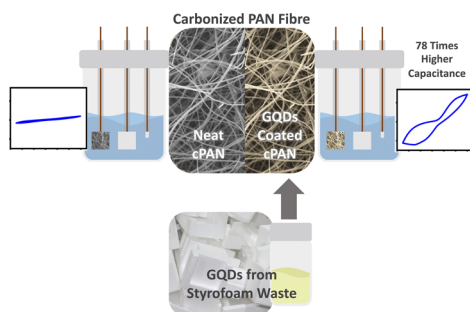
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Patrícia Pereira, Willem Slear, Angelo Testa, Kevin Reasons, Peter Guirguis, Phillip E. Savage\* and Christian W. Pester\*

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

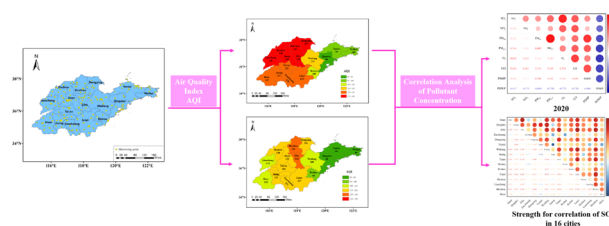
Dheeraj Kumar, Ekta Vashishth, Sweetly Rani, Advitiya Kumar, Bhanu Nandan, Supreet Singh Bahga and Rajiv K. Srivastava\*



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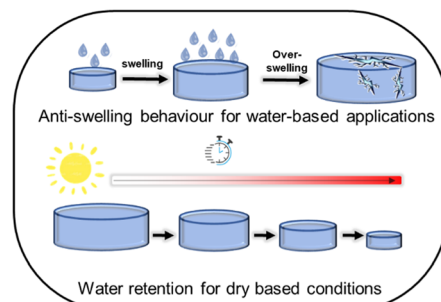
Ziheng Wan, Chuanxi Yang,\* Xiaoning Wang,\* Yan Xue, Jianai Zhao, Jiayi Cui, Qianqian Guo, HuiJuan Hua, Haofen Sun, Dong Chen, Weihua Zhao, Yihua Xiao and Weiliang Wang\*



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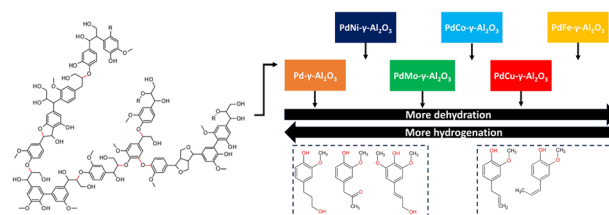
Kudzanai Nyamayaro, Takeo Iwase, Savvas G. Hatzikiriakos and Parisa Mehrkhodavandi\*



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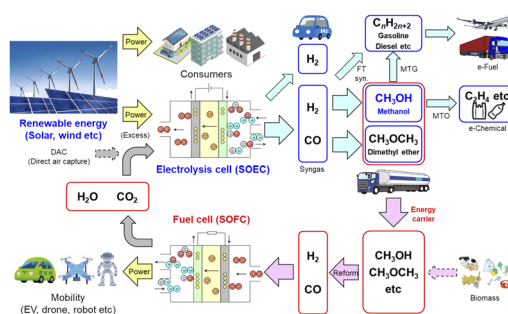
Tibo De Saegher, Boyana Atanasova, Pieter Vermeir, Kevin M. Van Geem, Jeriffa De Clercq, An Verberckmoes and Jeroen Lauwaert\*



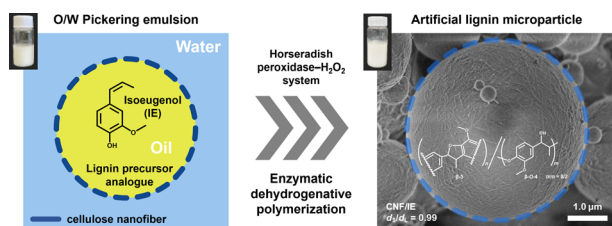
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## Co-electrolysis SOEC and internal reforming SOFC for achieving a carbon-neutral society

Hirofumi Sumi\*



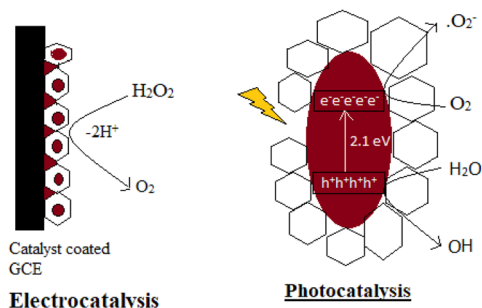
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### Synthesis and structural design of microspheres comprising cellulose nanofibers and artificial lignin polymer by enzyme-mediated Pickering emulsion templating

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

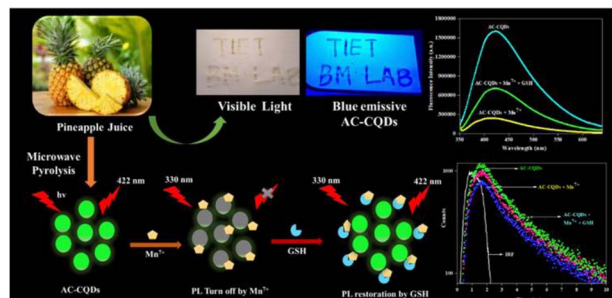
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### Synthesis of a high dielectric constant graphene supported iron oxide and its electrocatalytic activity in a H<sub>2</sub>O<sub>2</sub> fuel cell and as an efficient photocatalyst

Madhavi D. Shete\* and J. B. Fernandes

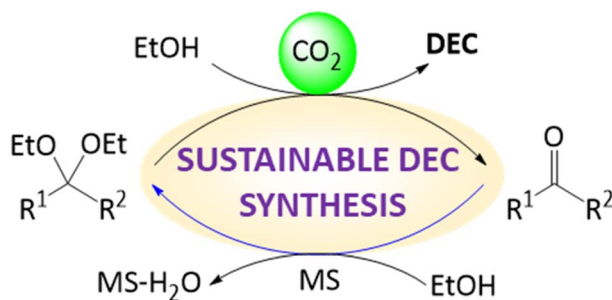
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Mallika Phull, Amjad Ali and Banibrata Maity\*

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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\*

