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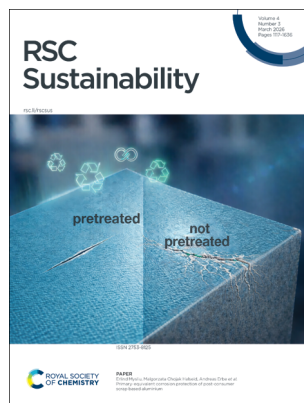
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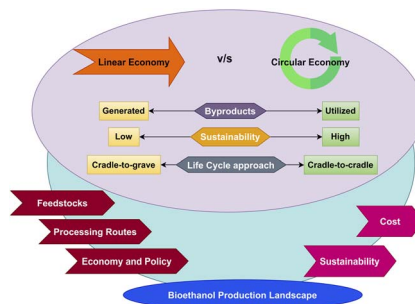
Inside cover
See Erlind Mysliu, Malgorzata Chojak Halseid, Andreas Erbe *et al.*, pp. 1367–1375. Image reproduced by permission of Erlind Mysliu and Malgorzata Halseid from *RSC Sustainability*, 2026, 4, 1367. Image created with AI.

CRITICAL REVIEWS

1129

Advancing bioethanol: exploring feedstock diversity, production pathways, and environmental implications

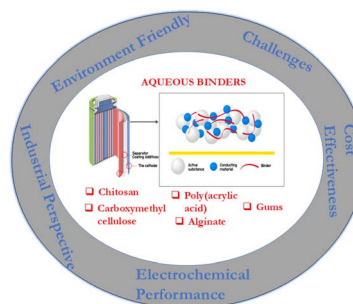
Sanyam Jain and Shushil Kumar*



1160

A review of aqueous-based binders used for cathode fabrication in lithium-ion batteries

Samuel O. Ajayi,* Tarekegn H. Dolla, Peter R. Makgwane, Xinying Liu, Moses M. Solomon, Cyril O. Ehi-Eromosele and Mkhulu K. Mathe*



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Sustainable extraction of bioactive compounds: a life cycle perspective on technologies, solvents, and process scale-up

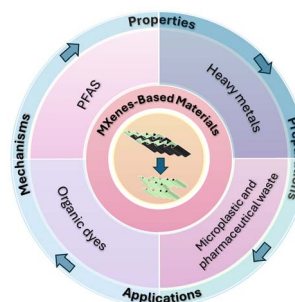
Justin Z. Lian, Tie Liu, Jintian Yang, Hengyi Zhu, Nalinpat Chalermchotiwong, Yemima Grain, Long Yue, Xiang Luo, Stefano Cucurachi, Jian Li,* Fanran Meng* and Bin Dong*



1203

Application of MXenes for emerging contaminant removal and water purification: a revolutionary approach

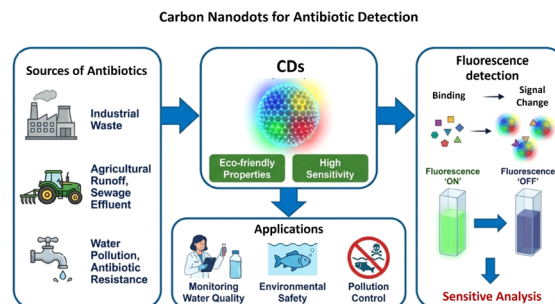
Savan K. Raj,* Prem P. Sharma, Dominika Bury, Agnieszka M. Jastrzebska and Vaibhav Kulshrestha*



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Fluorescence-based detection of antibiotics in aquatic environments using carbon nanodots: a review

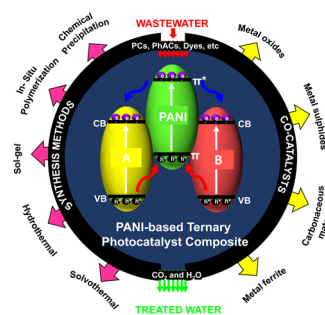
Marwan Sardar, Khalid M. Omer,* Sameera Sh. Mohammad Ameen and Kosar Hikmat Hama Aziz*



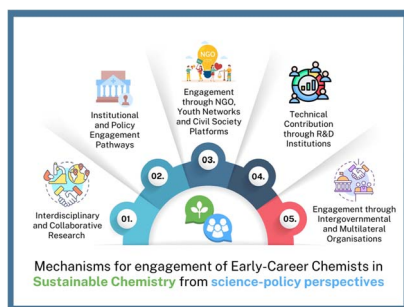
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Polyaniline-based ternary composites for the photocatalytic degradation of organic pollutants in wastewater: multifunctional properties, synthetic routes, and mechanistic insights

Jyoti Kumari, Adarsh Singh, Akash Rawat, Suneel Kumar Srivastava and Ashok Kumar Gupta*



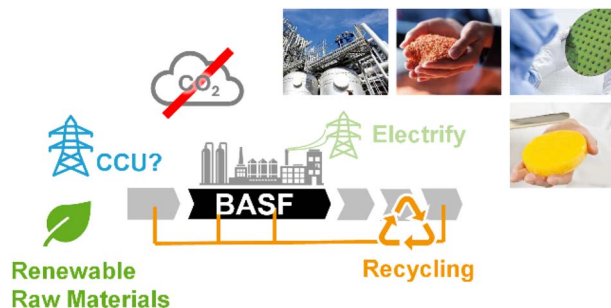
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Engagement of early-career scientists in sustainable chemistry: science policy perspectives

Lovish Raheja, Francisca J. Benítez,* José Ferraz-Caetano, Maulline G. Leviev, Aanchal Saxena and Anna Isabel Becker

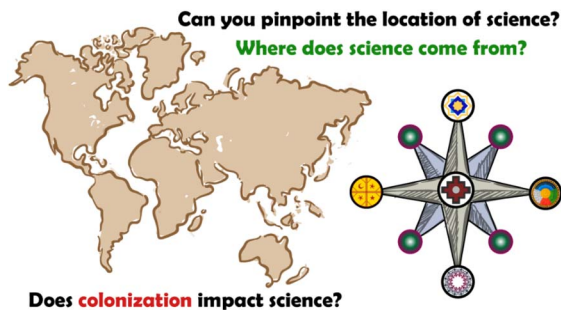
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Transforming the chemical industry: a BASF perspective on net-zero and circularity

Bernhard von Vacano,* Wolfgang Hübinger, Willis Muganda, Grigorios Kolios, Talke Schaffranek, Alois Kindler, Kai Ehrhard and Markus Weber*

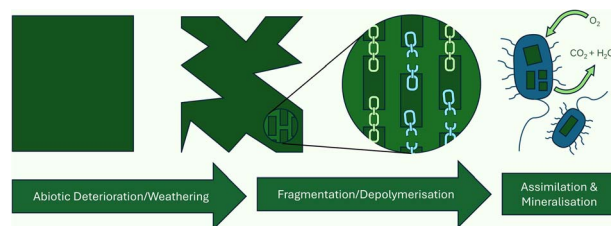
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Decolonizing green chemistry research through Matharu plots

Francisco Yarur Villanueva,* Daniel J. Inglis and Avtar S. Matharu*

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Beyond the guidelines: rethinking OECD biodegradability testing for polymers in liquid formulations

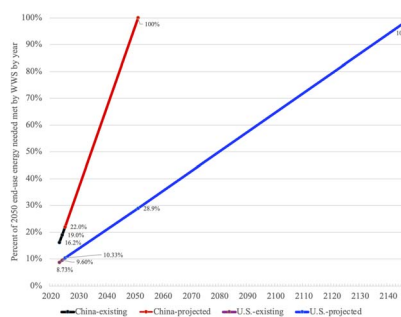
Frank Stott, Edisa García Hernández, Jessica Staniland,* Amy Goddard, Sarah Davidson and Ian Tooley



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Projections of when each of 150 countries may eliminate air pollution and carbon emissions from all energy

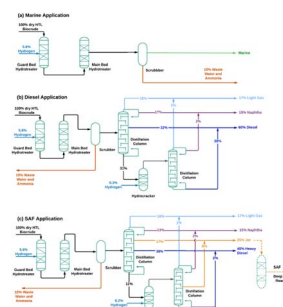
Mark Z. Jacobson*



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Techno-economic and life cycle assessment of wet waste hydrothermal liquefaction with different biocrude upgrading strategies

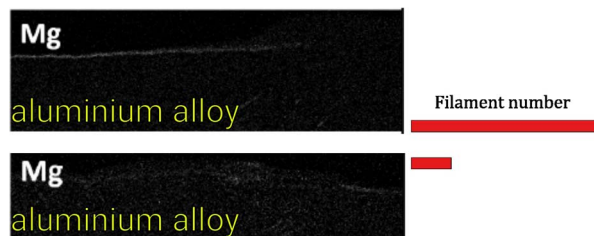
Shuyun Li, Longwen Ou, Yuan Jiang,* Hao Cai, Daniel M. Santosa, Uriah J. Kilgore, Senthil Subramaniam, Igor Kutnyakov, Huamin Wang, Michael R. Thorson and Mariefel Olarte



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Primary-equivalent corrosion protection of post-consumer scrap based aluminium

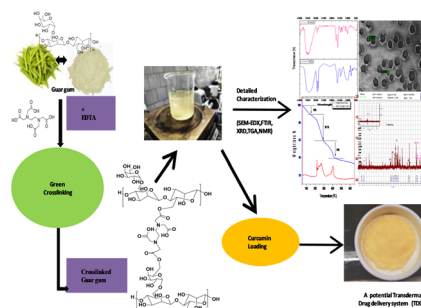
Erlind Mysliu,* John Erik Lein, Per Erik Vullum, Jan Tore Buvik Gundersen, Malgorzata Chojak Halseid,* Otto Lunder and Andreas Erbe*



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EDTA-mediated crosslinking of guar gum: a sustainable platform for transdermal curcumin delivery

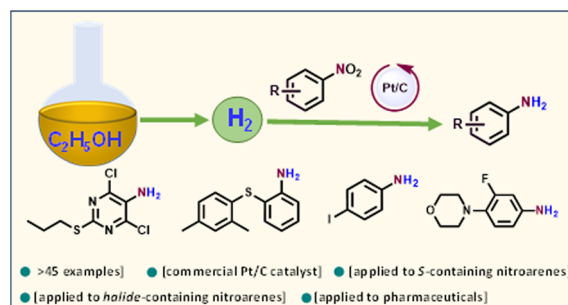
Jyoti Rajput, Vineet Kumar,* Kalpana Chauhan, Dhruv Kumar, Garima Singh and Ashish Mathur



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Ethanol as a H₂ source: transfer hydrogenation of sulfur and halogen containing nitroarenes with an anti-poisoning platinum on carbon catalyst

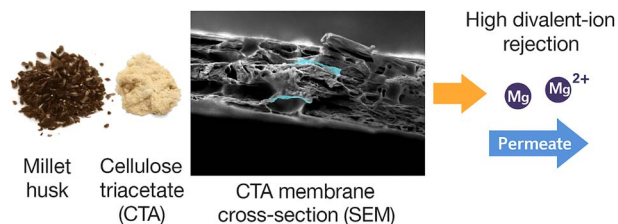
Chitrarekha Dewangan, Reeshma Rameshan, Suresh Perumal, Narayana V. Kalevaru, Sebastian Wohlrab,* Rajenahally V. Jagadeesh* and Kishore Natte*



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Nanofiltration membranes based on cellulose triacetate from millet husk

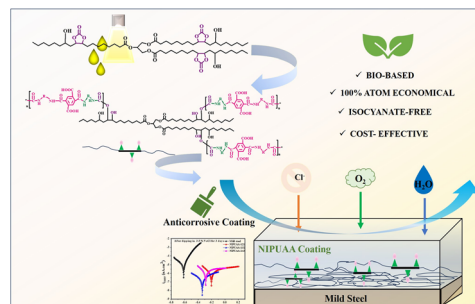
Maryam Khadim MBACKE,* Mouhamed Ndoye, El Hadji Moussa Diop and Moustapha Sene



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Sustainable bio-based isocyanate-free poly (urethane amic acid) coatings for the corrosion protection of mild steel

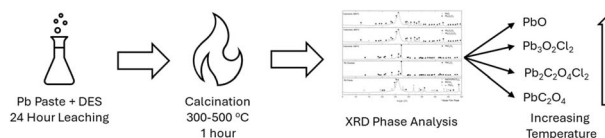
Rakesh Rapolu, Kashmiri Borah, P. Ermiya Prasad, Aqueeb Javeed and Aruna Palanisamy*



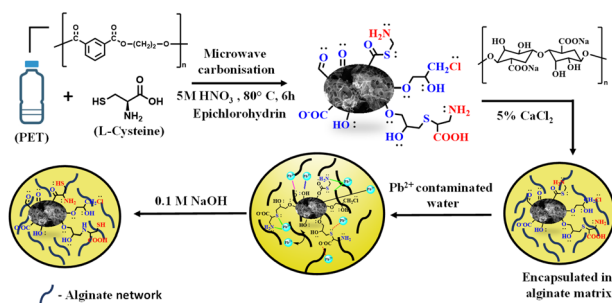
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Synthesising lead oxide and oxychloride minerals from spent lead acid battery waste using a choline-chloride based deep eutectic solvent

Enrico W. Manfredi-Haylock,* Gwilherm K. Kerherve and David J. Payne



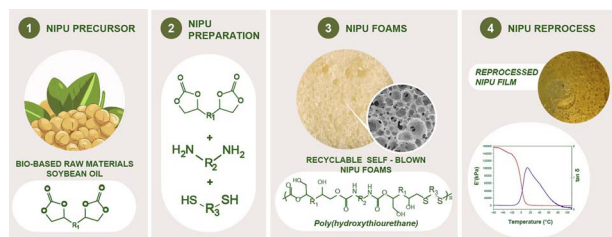
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Sustainable approach for the sequestration of lead from water involving the synergistic influence of PET waste and L-cysteine encapsulated in sodium alginate beads

K. Krishna Priyanka, Arunraj Balasubramanian, M. Christina Nilavu, Himanshu Aggarwal* and N. Rajesh*

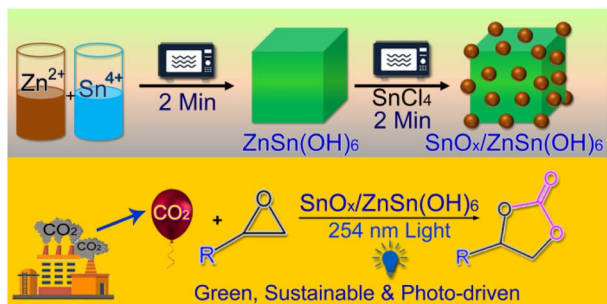
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Design of fully reprocessable composite non-isocyanate polyurethane (NIPU) foams from sustainable blends of cyclic carbonates

Federica Orabona, Federica Recupido, Krzysztof Polaczek, Giuseppe Cesare Lama, Martina Morra, Francesco Taddeo, Martino Di Serio, Tapio Salmi, Letizia Verdolotti* and Vincenzo Russo

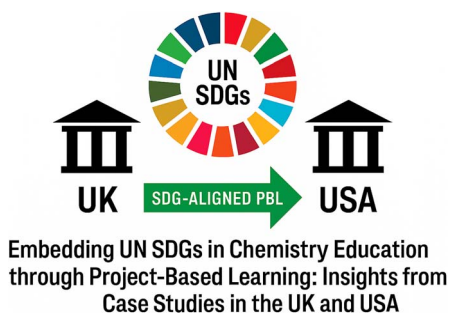
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Microwave assisted construction of a SnO_x/ZnSn(OH)₆ heterojunction for photocatalytic CO₂ cycloaddition

Soumita Sarkar, Soumalya Banerjee, Sk Afsar Ali, Sunny Sarkar and Astam K. Patra*

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Embedding UN SDGs in chemistry education through project-based learning: insights from case studies in the UK and USA

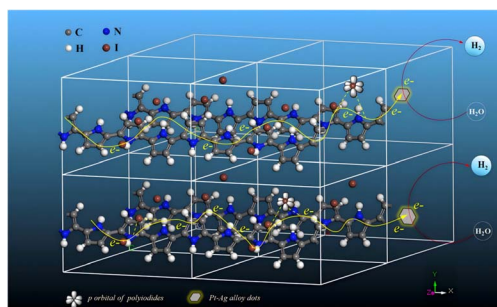
Yalinu Poya*



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Enhanced photocatalytic hydrogen evolution by polyiodide-boosted electron transport and Pt–Ag alloy active sites in conductive polymer-based core–shell photocatalysts

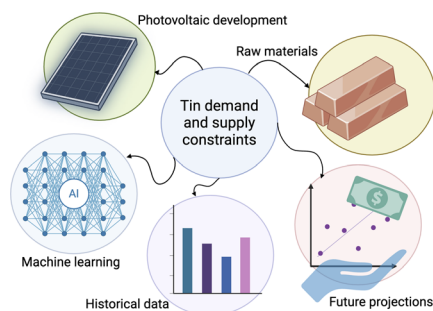
Wenyan Zhang,* Chaoqun Jiang, Weidong Tao, Yihan Wang, Hangmin Guan and Lingyun Hao



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Assessing tin demand and supply pressures under terawatt-scale photovoltaic deployment

Piyal Chowdhury, Priyom Das, Hemal Chowdhury,* Tamal Chowdhury, Elza Bontempi and Richard Corkish



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Are melamine flame retardants in sofas beneficial from a life cycle perspective?

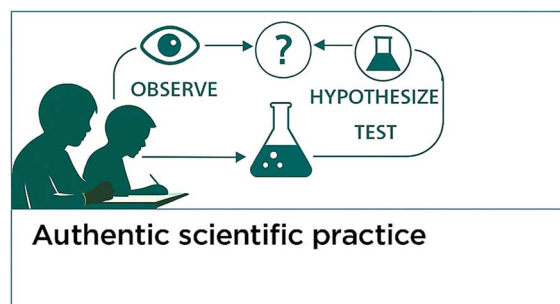
Rahul Aggarwal,* Rickard Arvidsson and Gregory Peters



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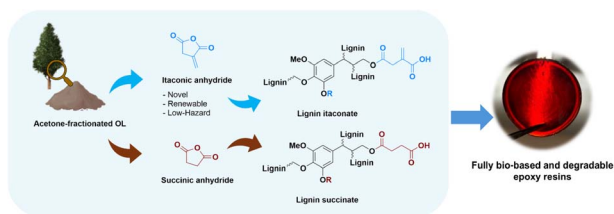
A sustainability approach to inquiry-based experiential chemistry education in pre-college programs

Yalinu Poya*



PAPERS

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Biobased epoxy resins from itaconic anhydride functionalized lignin: insights and comparison with succinic analogues

Celeste Libretti, Gianluca Giuseppe Rizzo, Sophia Abou El Mirate, Mats Johansson* and Michael A. R. Meier*

CORRECTION

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Correction: Change of tides in European chemical legislation. A turning point in European chemicals policy: reconciling green ambitions with the viability of the manufacturing sector in Europe

Éva Ujaczki and Jan Backmann*

