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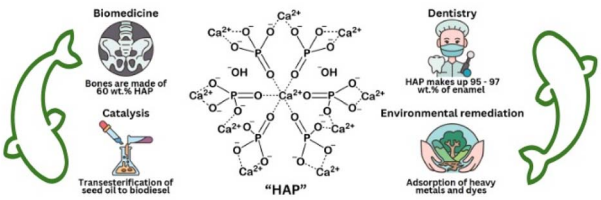

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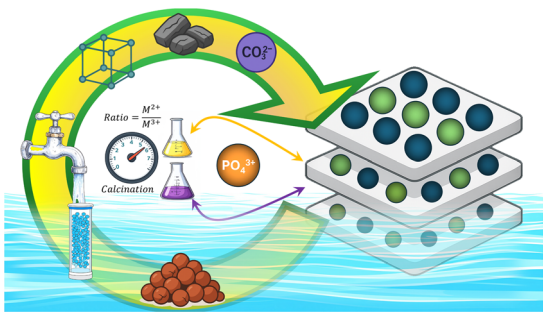

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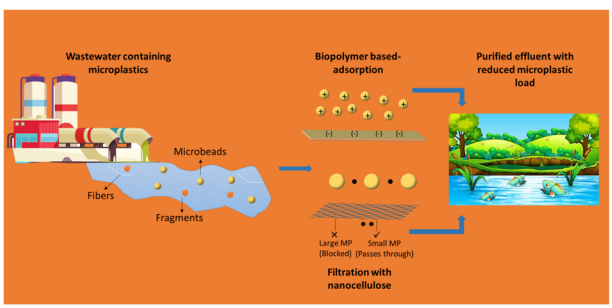

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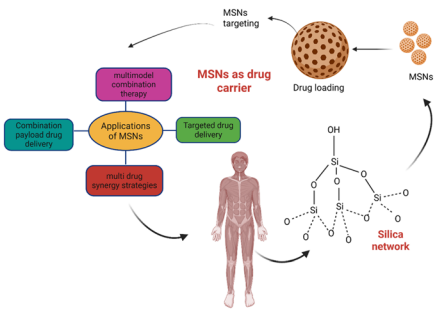

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Mukta Rajotia, Anju Yadav, Vivek Kumar Saroj and Subrata Panda*

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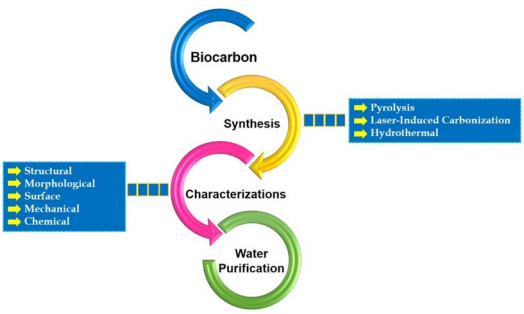

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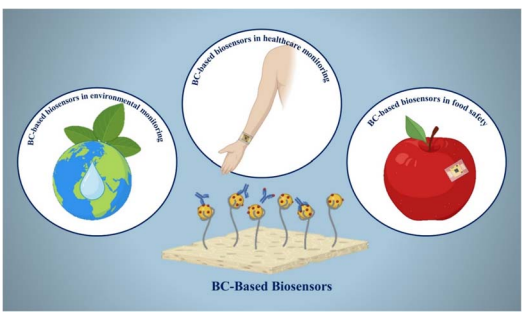

Bacterial cellulose: a sustainable nanostructured polymer for biosensor development

Mojdeh Mirshafiei, Amir Keshavarz Afshar, Fatemeh Yazdian,* Hamid Rashedi,* Abbas Rahdar and M. Ali Aboudzadeh*

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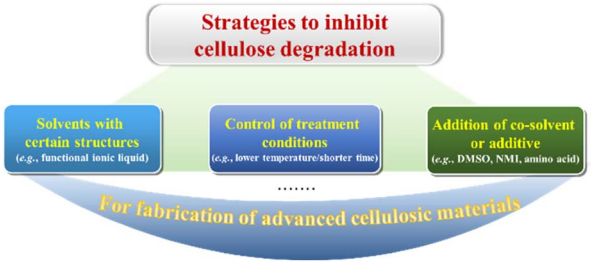
Strategies for the inhibition of cellulose degradation in the valorization of lignocelluloses for the fabrication of functional materials

Hui Wang,* Yingying Cao, Nianming Jiao and Bingtong Chen



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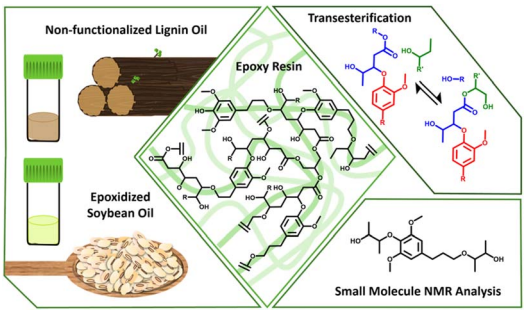

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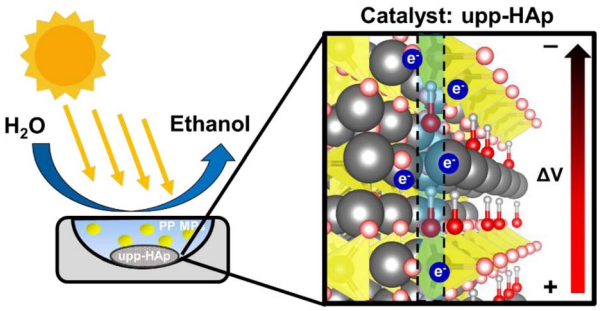
Polypropylene microplastic degradation using ultraporous polarized hydroxyapatite and sunlight

Marc Arnau, Jordi Sans* and Carlos Alemán*



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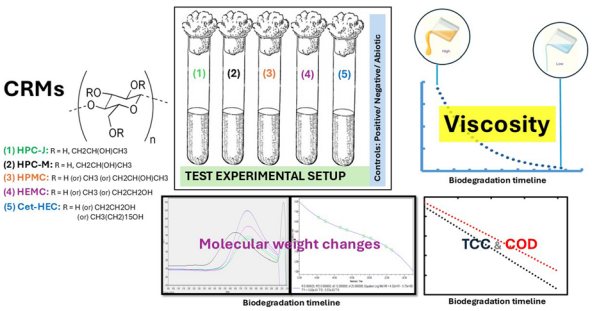
A novel method to screen biodegradability for the early assessment of cellulosic rheology modifiers

Moumita Bhaumik, Chiranjeevi Thulluri, Arindam Roy and Harshad Ravindra Velankar*



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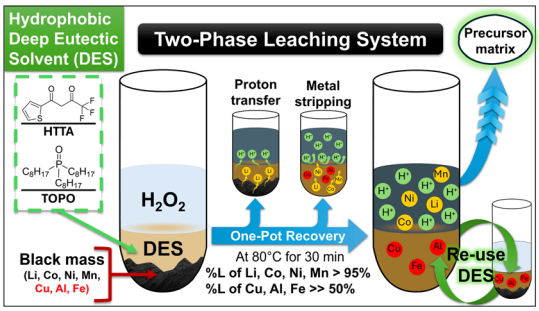

Selective separation of critical metals from lithium-ion batteries in a two-phase leaching system based on a hydrophobic deep eutectic solvent and H_2O_2 solution

Kevin Septioga, Adroit T. N. Fajar, Rie Wakabayashi and Masahiro Goto*

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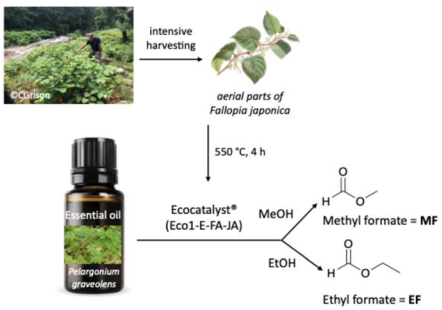

First sustainable synthesis of biobased ethyl and methyl formates by ecocatalysis

Arthur Lasbleiz, Pierre-Alexandre Deyris, Franck Pelissier, Yves-Marie Legrand, Claude Grison* and Claire M. Grison

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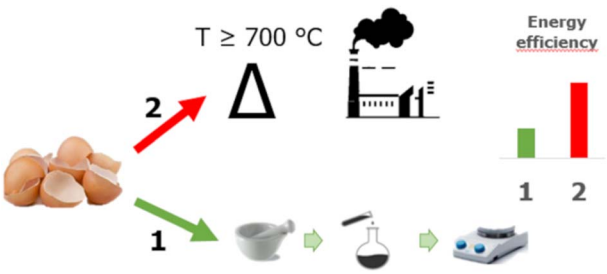

Sustainable synthesis of hydroxyapatite-containing composites from eggshells for soil amendment applications

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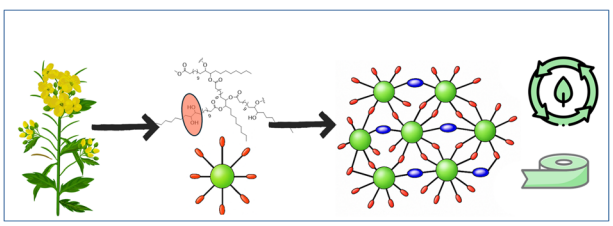

Semi-crystalline and recyclable pressure sensitive adhesives from non-edible rapeseed oil-based hyperbranched polyester vitrimers

Virgile Ayzac, Boris Bizet,* Marie Reulier, Guillaume Chollet, Cédric Le Coz, Etienne Grau* and Henri Cramail*

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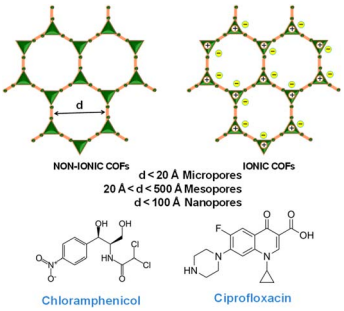
Ionic and non-ionic organic porous adsorbents for the removal of chloramphenicol and ciprofloxacin from water

Sunny K. S. Freitas, Letícia R. C. Correa, Verônica D. da Silva, Pierre M. Esteves* and Luis C. Branco*



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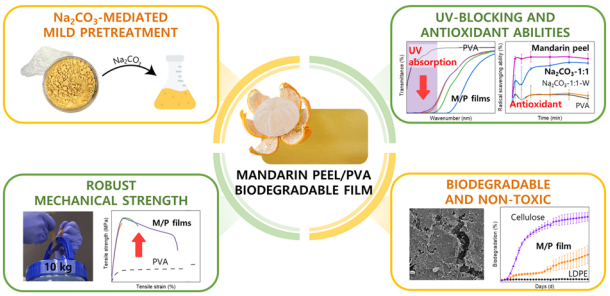
Yongjun Cho, Sunoo Hwang, Pham Thanh Trung Ninh, Youngju Kim, Shinhyeong Choe and Jaewook Myung*



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Dual-functional additives for stable perovskite thin films

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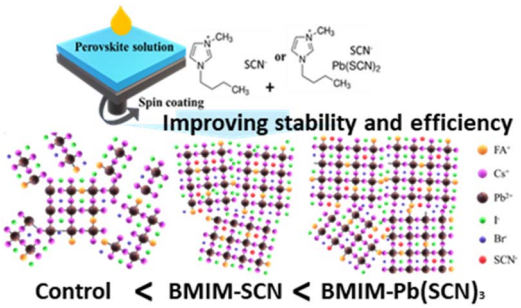

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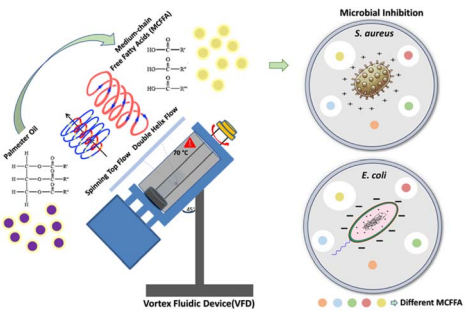

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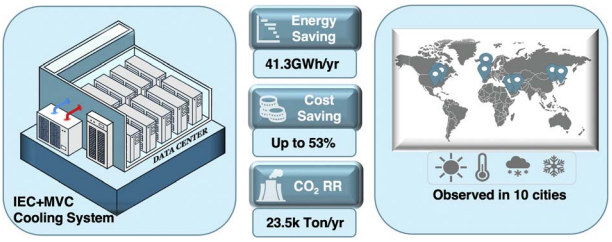

Levelized cost analysis of indirect evaporative cooling in a data centre

Qiumei Jing, Muhammad Ahmad Jamil, Chunjiang Jia, Chong Ng, Wei Wang, Linhua Zhu, Muhammad Wakil Shahzad* and Ben Bin Xu*

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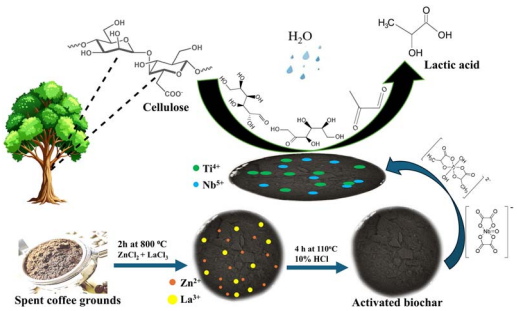

Spent coffee ground-derived biochar with trimodal porosity: green biochar supported highly dispersed TiO_2 and Nb_2O_5 nanoparticles as an efficient novel catalyst for lactic acid synthesis

Vlad A. Neac□u, Maria Minodora Marin, Anca Dumitru, Cristina Elena Stavarache, Elena Olăre□, Erika Blânzeanu, Dana Culi□ă, Victor Fruth, Florica Papa, Marielle Huvé, Pascal Granger* and Marian Nicolae Verziu*

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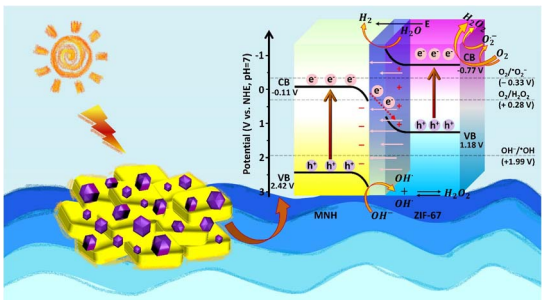

Hierarchically structured MOF-on-MOF photocatalysts with engineered charge dynamics for sustainable green fuel generation

Priyanka Priyadarshini, Subrat Kumar Sahoo and Kulamani Parida*

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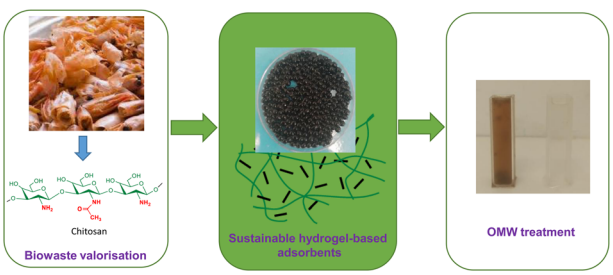

Activated carbon *versus* montmorillonite embedded on porous chitosan beads for the treatment of olive mill wastewater: a comparative study

Wahid Ben Khadda, Oumaima Bahammou, Farah El Hassani, Nadia Katir, Hicham Zaitan and Abdelkrim El Kadib*

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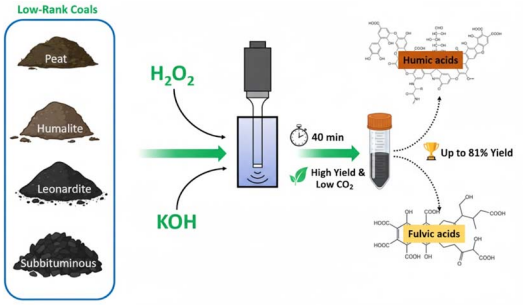
Kinetic analysis and optimization of sonoreactor process for production of humic and fulvic acids from various coal feedstocks

Redhwan Al-Akbari, Abdallah D. Manasrah and Nashaat N. Nassar*



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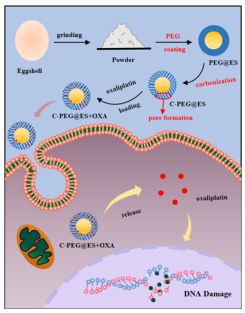
An eggshell-derived $CaCO_3$ porous carbon-based nanocomposite for cancer therapy

Qicang Wang, Jiayi Chen, Jiawei Chen, Qiuping Wu, Xinyu Yang, Shaowei Wang, Shijun Xing, Chen Chen, Wenping Li* and Jiazhi Yang



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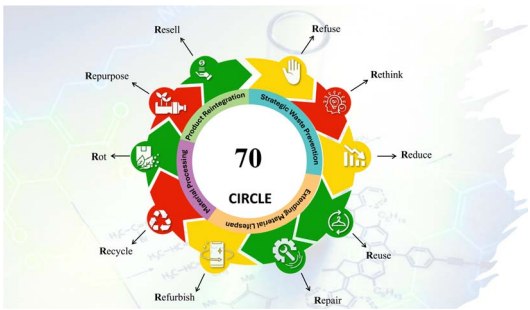
Integration of 10R principles into CIRCLE as an innovative tool for assessing circular economy

Fotouh R. Mansour,* Samy Emara, Alaa Bedair and Mahmoud Hamed*



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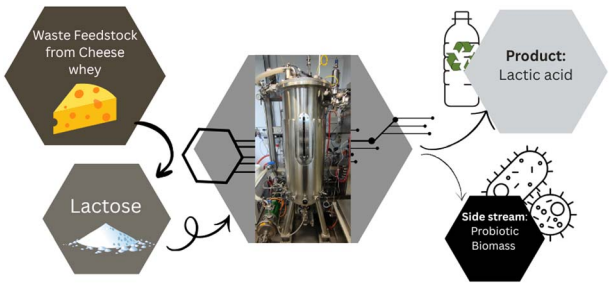
Assessing multiple bioprocess modes for lactic acid production by *Lactiplantibacillus plantarum* ATCC 8014 using lactose as a substrate

Ciara D. Lynch, Si Liu, Tanja Narančić and Kevin O'Connor*



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Bismuth ferrite ($Bi_2Fe_4O_9$) nanosheets: an efficient adsorbent for triclosan

Komal Shukla and Raju Kumar Gupta*

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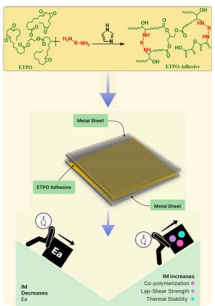

Synthesis and characterization of thermosetting adhesives from epoxidized *Thevetia peruviana* oil for sustainable bonding solutions

Karthika Vayalachery Kambikanam, Bhadra Purushothaman Bindu, Adebayo Isaac Olosho* and Kiran Sukumaran Nair*

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A water-based synthetic route to the metal–organic framework UiO-66 starting from PET-derived terephthalate esters

Pietro Agola and Marco Taddei*

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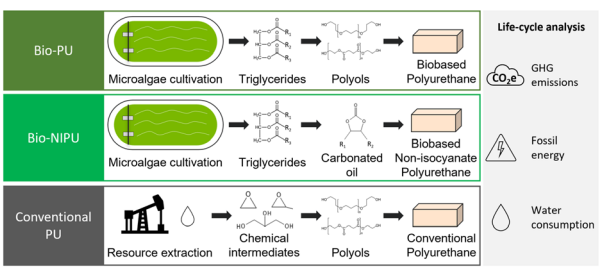

Life-cycle analysis of microalgae-based polyurethane foams

Ulises R. Gracida-Alvarez, Matthew R. Wiatrowski, Pahola Thathiana Benavides,* Jingyi Zhang, Ryan Davis and Troy R. Hawkins

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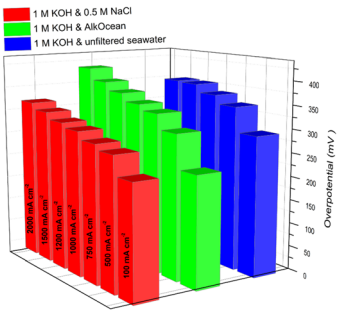
Systematic study of electrochemical performance of nickel iron hydroxide ($NiFe(OH)_2$) electrocatalyst at high current densities in alkaline seawater solutions

Jack Corbin, Cheng Lyu, David Trudgeon, Mikey Jones, Adeline Loh, Arthur Graf, Zhenyu Zhang, Jianyun Cao, Ida Nawrocka and Xiaohong Li*



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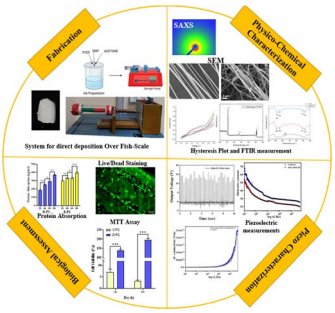
Mechano-stimuli-responsive engineered device mimicking native anisotropy towards tissue regeneration

Samir Das, Sri Medha Juloori, Mainak Swarnakar, Manish Pal Chowdhury and Santanu Dhara*



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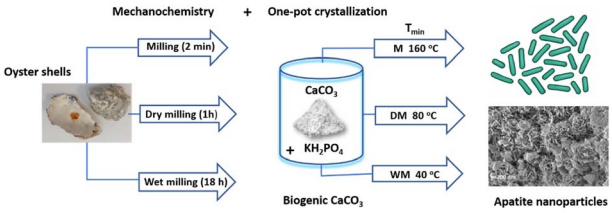
Low-temperature transformation of mechanochemically treated oyster shells into nanocrystalline apatites

Carla Triunfo, Francesca Oltolina, Annarita D'Urso, Raquel Fernández-Penas, Giuseppe Falini, Antonia Follenzi and Jaime Gómez-Morales*



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Thermogravimetric and physicochemical characterization of waste tire–coconut shell blends as potential renewable energy feedstock

Samsudin Anis,* Sukarni Sukarni, Alavudeen Azeez, Ahmad Indra Siswantara, Sonika Maulana, Deni Fajar Fitriyana, Adhi Kusumastuti, Januar Parlaungan Siregar, Sivasubramanian Palanisamy,* Aravindhan Alagarsamy, Mohamed Abbas, Shaeen Kalathil and Mezigebu Belay*

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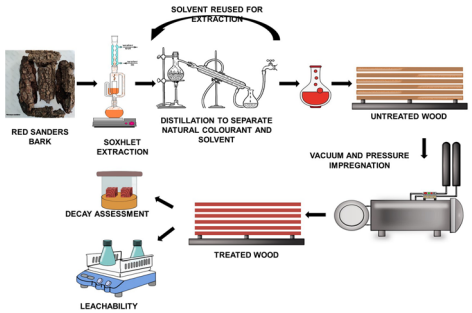

Red sanders bark extracts as effective bio-protective agents against fungal and termite degradation of plantation timbers

Souvik Ray, Rakesh Kumar,* N. S. Mithila and S. R. Shukla

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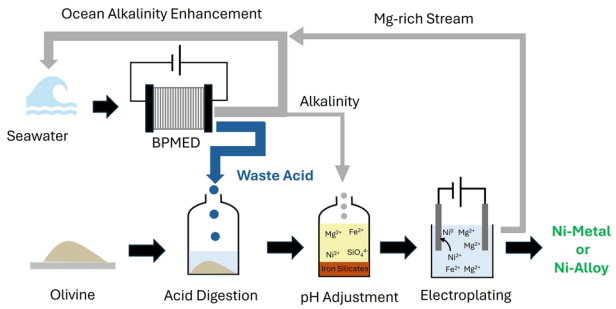

Nickel extraction from olivine using waste acid from an electrochemical marine CO_2 removal process

Alexander J. Robinson, Dan Thien Nguyen, Brady Anderson, Jian Liu, Pravalika Butreddy, Elias Nakouzi, Qingpu Wang, Paul Marsh and Chinmayee V. Subban*

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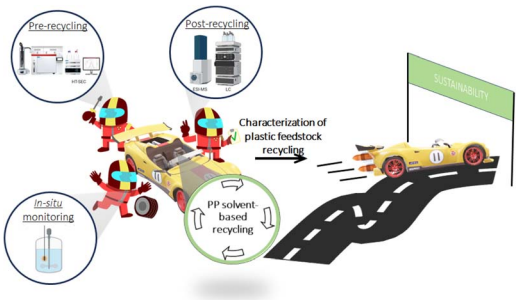

From additive analysis to process monitoring: characterization of polypropylene solvent-based recycling from plastic feedstocks representative of sorting centres

Sofiane Ferchichi, Nida Sheibat-Othman,* Maud Rey-Bayle and Vincent Monteil*

COMMENTS

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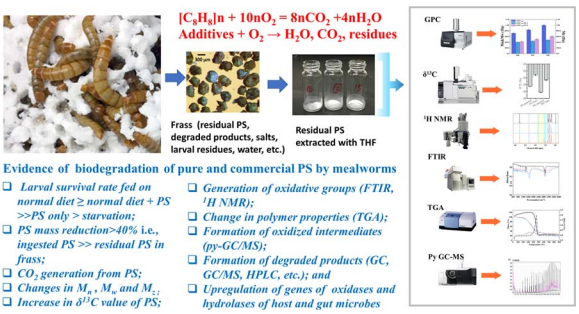

Comment on "Expanded polystyrene is not chemically degraded by mealworms" by Z. M. Tahroudi, G. Flematti, J. Joshi, G. Fritz and R. Atkin, *RSC Sustainability*, 2025, 3, 383

Wei-Min Wu* and Craig S. Criddle

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COMMENTS

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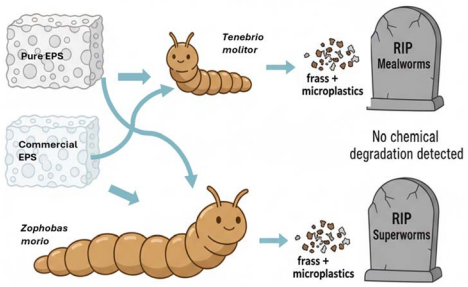
Reply to the 'Comment on "Expanded polystyrene is not chemically degraded by mealworms"' by W.-M. Wu and C. S. Criddle, *RSC Sustainability*, 2026, 4, DOI: 10.1039/D5SU00247H

Zahra Mohammadizadeh Tahroudi, Shaik Sayed Md Rashidul Hossain, Gavin R. Flematti, Jitendra Joshi, Georg Fritz* and Rob Atkin*



CORRECTION

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Correction: Green initiatives for the synthesis of polyamide monomers: precision fermentation using engineered *Corynebacterium glutamicum* and extraction of purified 5-aminovaleric acid (5AVA) and putrescine

Keerthi Sasikumar, Volker F. Wendisch* and K. Madhavan Nampoothiri*