

RSC Sustainability

rsc.li/rscsus

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2753-8125 CODEN RSSUAN 2(7) 1897-2044 (2024)



Cover

See Takashi Hosoya *et al.*, pp. 1936–1947. Image reproduced by permission of Takashi Hosoya from *RSC Sustainability.*, 2024, 2, 1936.

TUTORIAL REVIEW

1904

Chemical degradation of oxygenated polymers: the case of polyethers and polysiloxanes

Shamna Salahudeen, Tabea A. Thiel and Esteban Mejía*

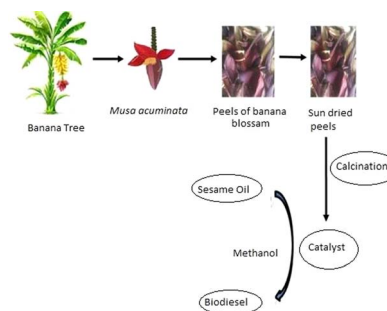


COMMUNICATION

1930

Utilization of *Musa acuminata* blossom peel waste mediated heterogeneous catalyst for biodiesel production from sesame oil

Manoranjan Sarkar, Jennifer Daimari, Sunshri Basumatary, Kushwaha Jashvant Kumar, Ranjay Das and Anamika Kalita Deka*



RSC Advances

At the heart of open access for
the global chemistry community

Editor-in-chief

Russell J Cox

Leibniz Universität Hannover, Germany

We stand for:



Breadth We publish work in all areas of chemistry and reach a global readership



Affordability Low APCs, discounts and waivers make publishing open access achievable and sustainable



Quality Research to advance the chemical sciences undergoes rigorous peer review for a trusted, society-run journal



Community Led by active researchers, we publish quality work from scientists at every career stage, and all countries

Submit your work now

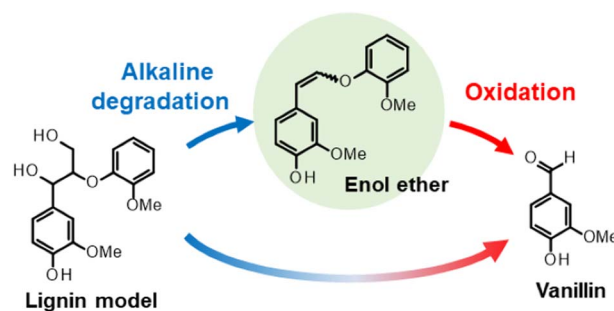
rsc.li/rsc-advances

@RSC_Adv

1936

Pathways for vanillin production through alkaline aerobic oxidation of a phenolic lignin model compound, guaiacylglycerol- β -guaiacyl ether, in concentrated aqueous alkali

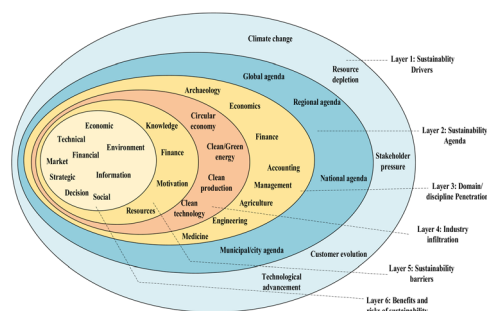
Ayami Ishikawa, Takashi Hosoya* and Hisashi Miyafuji



1948

The sustainability onion: a panoramic view of a parent concept, its paths, and progeny

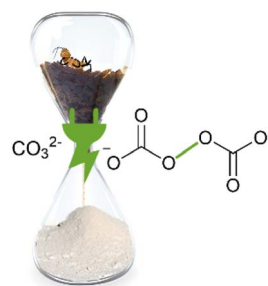
Raphael Aryee



1963

Halogen-free bleaching of shellac using electrochemically generated peroxodicarbonate

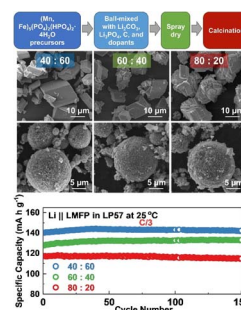
Tomas Horsten and Siegfried R. Waldvogel*



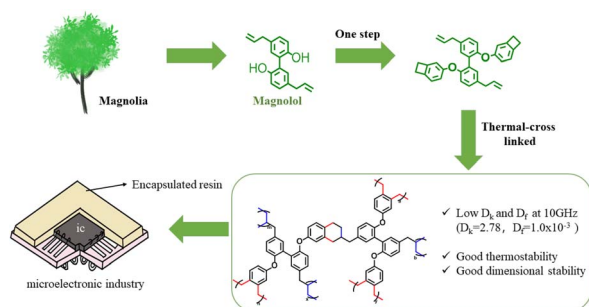
1969

Ammonia-free synthesis of lithium manganese iron phosphate cathodes via a co-precipitation reaction

Panawan Vanaphuti, Kevin Scanlan and Arumugam Manthiram*



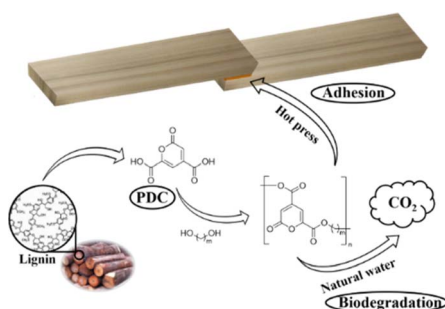
1979



One step conversion of bio-based magnolol into low k materials at high frequency

Zhuoyi Yang, Jing Sun* and Qiang Fang*

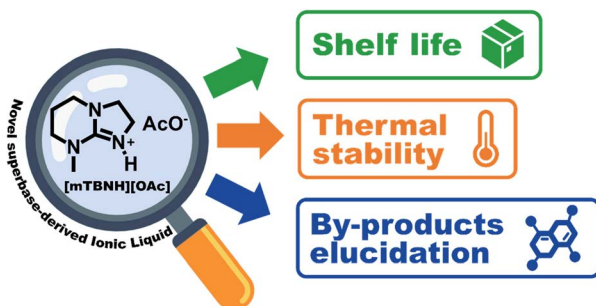
1985



Biodegradable and wood adhesive polyesters based on lignin-derived 2-pyrone-4,6-dicarboxylic acid

Yijie Jin, Takuma Araki, Naofumi Kamimura, Eiji Masai, Masaya Nakamura and Tsuyoshi Michinobu*

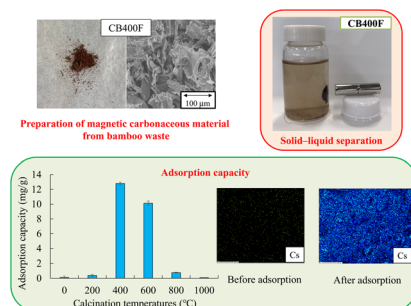
1994



Stability study of a superbases-derived ionic liquid [mTBNH][OAc] with enhanced cellulose dissolution ability: thermal and natural degradation

Ivan Melikhov, Irina Sulaeva, Stefano Barbini, Markus Bacher, Dev Sriranganadane, Ilkka Kilpeläinen, Thomas Rosenau and Antje Potthast*

2005



Synthesis and characterization of magnetic carbonaceous materials from bamboo waste and investigation of their adsorption capability for cesium ions

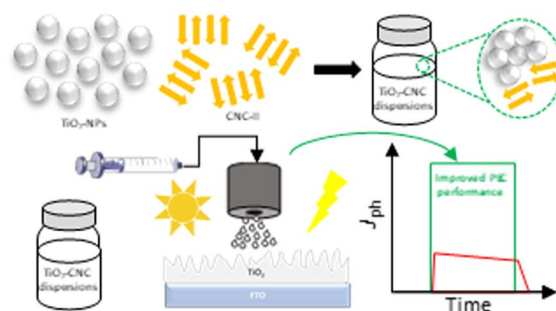
Fumihiko Ogata, Noriaki Nagai, Taiki Ogawa, Yugo Uematsu, Chalermpong Saenjum, Shigeharu Tanei and Naohito Kawasaki*



2015

Towards sustainable TiO₂ photoelectrodes based on cellulose nanocrystals as a processing adjuvant

C. Martínez-Barón, V. Calvo, J. Hernández-Ferrer, B. Villacampa, A. Ansón-Casaos, J. M. González-Domínguez,* W. K. Maser and A. M. Benito



2026

The beneficiation of asphalt waste through conversion into an efficient activated carbon adsorbent for diazinon pesticide, optimized through response surface methodology

Robert O. Gembo, Sebusi Odisitse, Titus A. M. Msagati and Cecil K. King'ondú*

