

# RSC Sustainability

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## IN THIS ISSUE

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### Cover

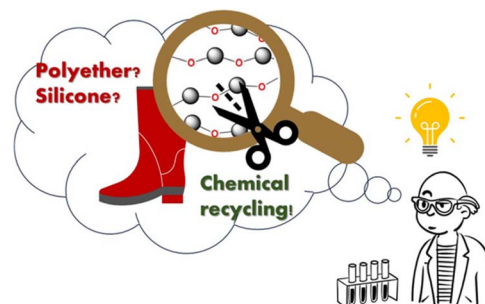
See Takashi Hosoya *et al.*, pp. 1936–1947. Image reproduced by permission of Takashi Hosoya from RSC. *Sustainability.*, 2024, 2, 1936.

## TUTORIAL REVIEW

1904

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

Shamna Salahudeen, Tabea A. Thiel and Esteban Mejía\*

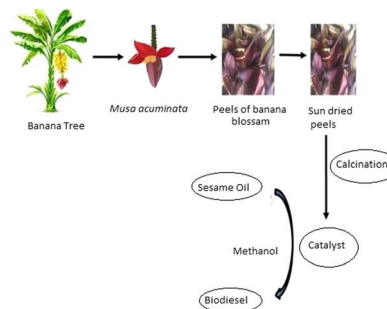


## COMMUNICATION

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

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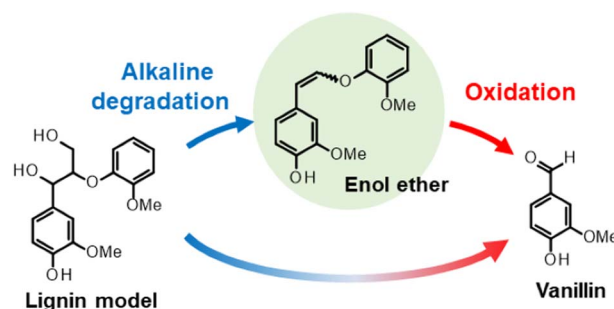
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## PAPERS

1936

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

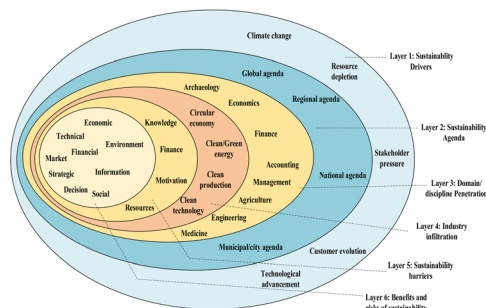
Ayami Ishikawa, Takashi Hosoya\* and Hisashi Miyafuji



1948

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

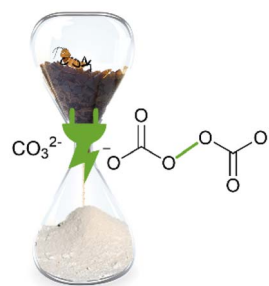
Raphael Aryee



1963

# Halogen-free bleaching of shellac using electrochemically generated peroxodicarbonate

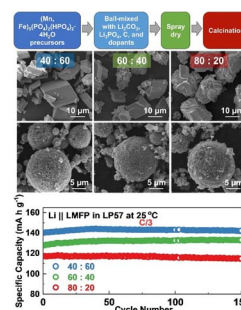
Tomas Horsten and Siegfried R. Waldvogel\*



1969

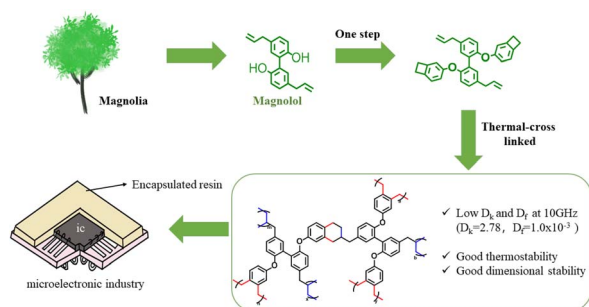
# Ammonia-free synthesis of lithium manganese iron phosphate cathodes via a co-precipitation reaction

Panawan Vanaphuti, Kevin Scanlan and Arumugam Manthiram\*



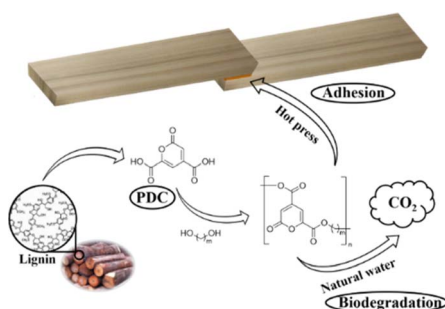
## PAPERS

1979

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

Zhuoyi Yang, Jing Sun\* and Qiang Fang\*

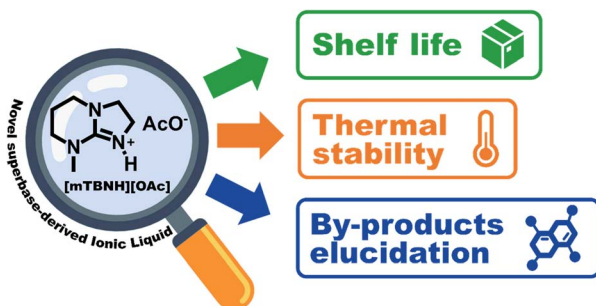
1985



## 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\*

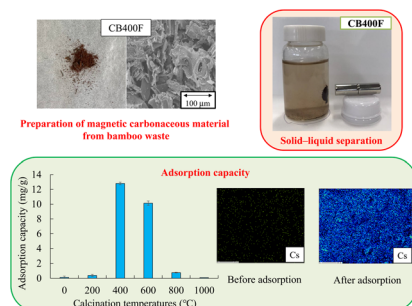
1994



## Stability study of a superbase-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

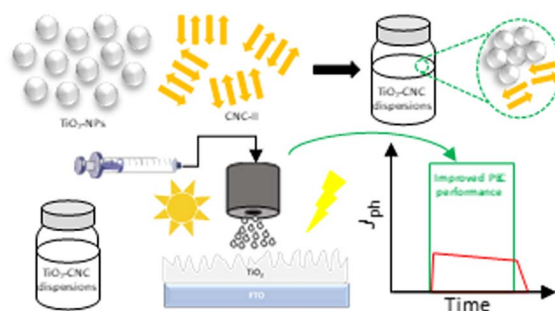
Fumihiko Ogata, Noriaki Nagai, Taiki Ogawa, Yugo Uematsu, Chalermpong Saenjum, Shigeharu Tanei and Naohito Kawasaki\*



2015

### Towards sustainable $\text{TiO}_2$ 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'andu\*

