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IN THIS ISSUE

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Cover

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Inside cover

See Christian W. Schmitt, Patrick Théato *et al.*, pp. 4190–4227. Image reproduced by permission of Christian W. Schmitt from *RSC Sustainability*, 2025, **3**, 4190. Artwork generated using Microsoft Copilot.

EDITORIAL

4187

Stockholm Declaration on Chemistry for the Future

Tom Welton,* David J. Cole-Hamilton, Francesca Kerton, Haichao Liu, Zhimin Liu, Vincent O. Nyamori, Christina Pozo-Gonzalo, Martin H. G. Prechtl, Zhenyu Sun and Mike Sutton



CRITICAL REVIEWS

4190

A critical review on the sustainability of inverse vulcanised polymers

Christian W. Schmitt,* Liam J. Dodd, Julia K. Walz, Leon Deterding, Patrick Lott, Alexander P. Grimm, Michael P. Shaver, Tom Hasell and Patrick Théato*



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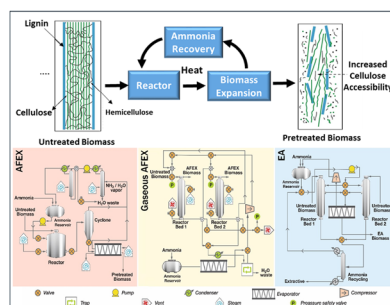
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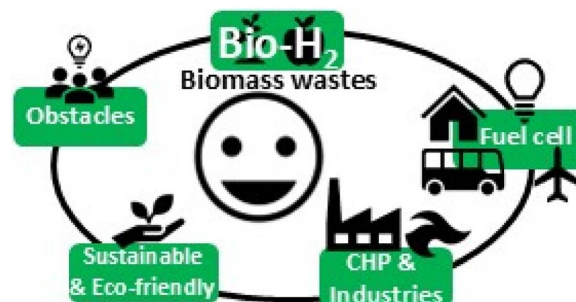
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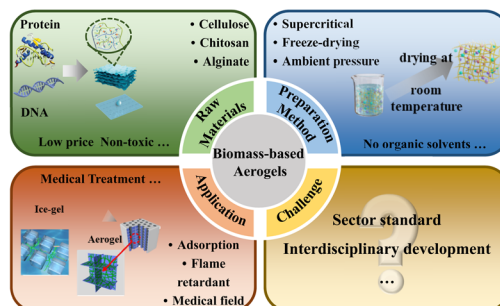
4228

Advancements in ammonia-based pretreatment: key benefits and industry applicationsVenkatesh Balan,^{*} Maedeh Mohammadi and Bruce E. Dale

4250

Transforming biomass into sustainable biohydrogen: an in-depth analysisMd. Merajul Islam^{*} and Amina Nafees

4298

Recent advances in sustainable biomass-based aerogels: a reviewXinyu Yang, Weijia Miao, Xiuhong Sun and Ye-Tang Pan^{*}

4314

Advances in lead-free perovskite solar cell design via SCAPS-1D simulationsVívian Helene Diniz Araújo,^{*} Ana Flávia Nogueira, Juliana Cristina Tristão and Leandro José dos Santos**Lead-free PSC simulations with SCAPS-1D: Review of over 50 studies**

CRITICAL REVIEWS

4336

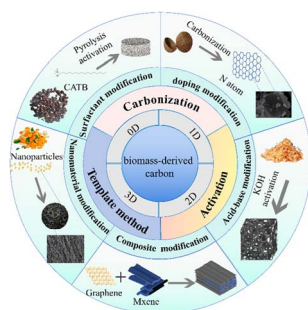


Advancements in sustainable materials for environmentally responsible tyre production: a comprehensive review

Malathi Sampath,^{*} Niketha Konikkara, Samson David, Ramakrishnan S., Jyoti Prakash Rath and Amarnath S. K. P.

TUTORIAL REVIEWS

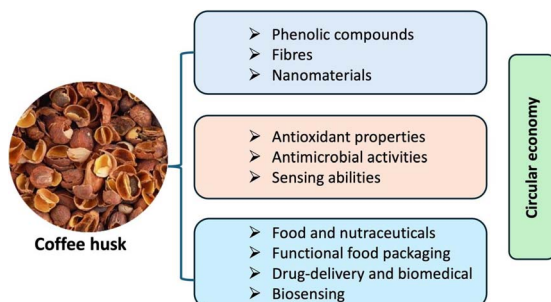
4364



Biomass-derived carbons and their modification techniques in electrochemical capacitive deionization desalination

Jin-Jing Jiang, Xue-Jing Ma,^{*} Juan Zhou, Ashkar Batol, Huan Gou and Wei-Bin Zhang^{*}

4410



Bioactive compounds in coffee husk: extraction, functional properties, applications, and sustainable approach in circular economy

M. Azam Ali^{*} and Shuva Bhowmik

PERSPECTIVES

4426



Perspective on electrochemical CO₂ reduction in CO₂/O₂ mixed gas

Xiaoling Lai, Jinxian Feng, Yuxuan Xiao, Weng Fai Ip^{*} and Hui Pan^{*}

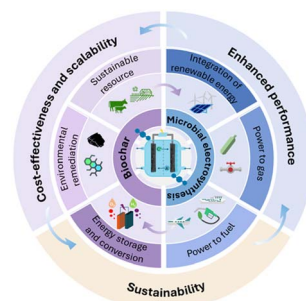


PERSPECTIVES

4435

Improving microbial electrosynthesis with biochar electrodes in production of CO₂ derived biochemicals and biofuels within circular economy systems

Xue Ning, Deepa Sachan, Archishman Bose, David M. Wall and Jerry D. Murphy*

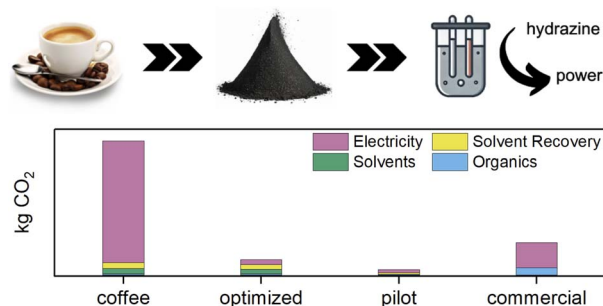


COMMUNICATIONS

4451

Farm to cable: life cycle assessment of carbon electrocatalysts derived from coffee waste

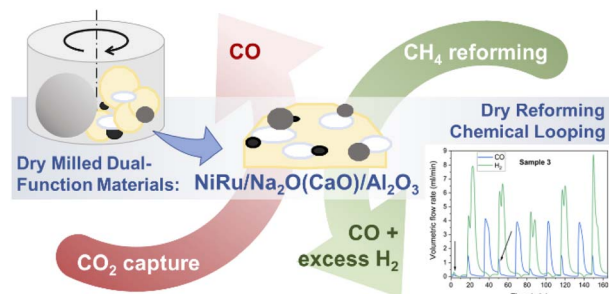
Shir Tabac-Agam, Amir Shefy, Syeda M. Zahan, Thierry K. Slot, Shelly Burda, Dario R. Dekel, Sabrina Spataro* and David Eisenberg*



4457

Integrated carbon capture and dry reforming of methane of mechanochemically synthesised dual-function materials

Loukia-Pantzechroula Merkouri, Maila Danielis, Andrea Braga, Tomas Ramirez Reina, Alessandro Trovarelli, Sara Colussi* and Melis S. Duyar*

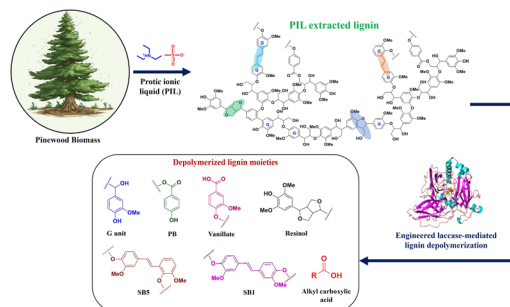


PAPERS

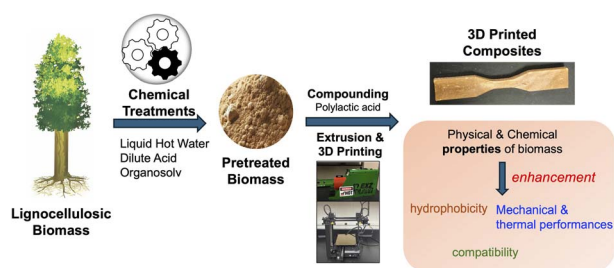
4466

Lignin depolymerization from softwood biomass using integrated protic ionic liquid–enzyme pretreatment

Sharib Khan,* Daniel Rauber, Luyao Wang, Udayakumar Veerabagu, Christopher W. M. Kay, Chunlin Xu, Sabarathinam Shanmugam* and Timo Kikas*



4478



Effects of chemical composition and physicochemical properties of poplar biomass on the performance of 3D printed poplar-reinforced PLA materials

Anqi Ji, Samarthya Bhagia, Nara Han, Kwang Ho Kim, Gyu Leem, Nidia C. Gallego, Shuyang Zhang, Kai Li, Soydan Ozcan, Arthur J. Ragauskas* and Chang Geun Yoo*

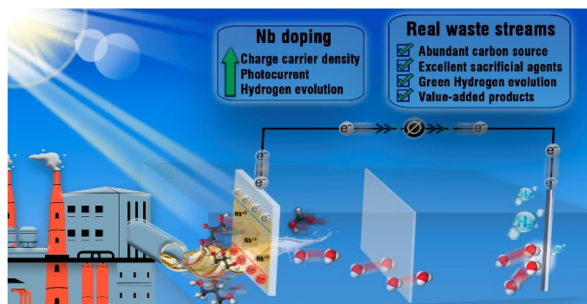
4492



Waving the green flag: incorporating sustainable and green chemistry practices into research and education

Marissa L. Clapson,* Greg Bannard, Gagan Daliaho, Jasmine Hong, Emma Davy, Julia Pitsiaeli, Connor S. Durfy and Shauna Schechtel

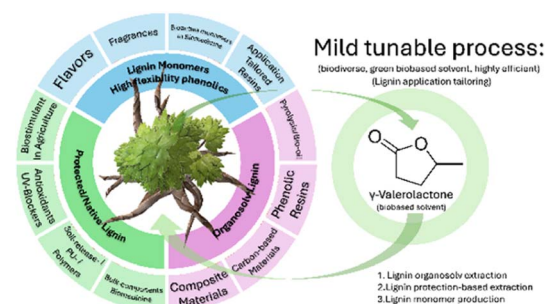
4504



Photoreforming of real biomass-derived waste streams using Nb-doped BiVO₄ photoanodes for sustainable hydrogen production

Lucas Leão Nascimento, Rafael A. C. Souza, Paulo H. Horta Nunes, João F. C. S. Costa, Ivo A. Ricardo, Eduardo M. Oliveira, Klaus Krambrock, Chuanyi Wang and Antonio Otavio T. Patrocínio*

4514



Influence of the biomass-source and the extraction process on lignin properties and γ -valerolactone induced conversion of biomass towards valuable lignin monomers

Moritz Schweiger,* Thomas Lang, Didier Touraud, Eva Müller and Werner Kunz

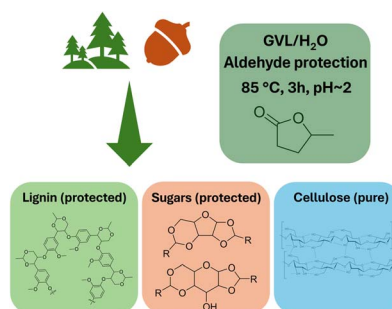


PAPERS

4533

Complete biodiverse lignocellulosic biomass fractionation process using the green solvent γ -valerolactone

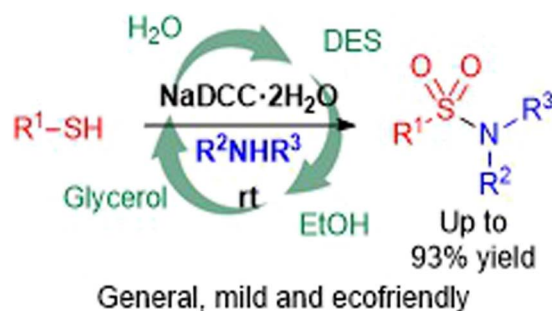
Moritz Schweiger,* Thomas Lang, Eva Müller, Vojtěch Jeřábek, Jan Heyda, Martin Klajmon, Didier Touraud, Magdalena Bendová, Karel Řehák and Werner Kunz



4556

Sustainable synthesis of sulfonamides *via* oxidative chlorination in alternative solvents: a general, mild, and eco-friendly strategy

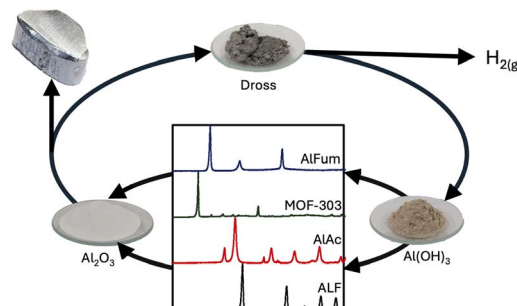
Abelardo Gutiérrez Hernández, Francisco J. Sierra-Molero, Alejandro Baeza Carratalá, Francisco Méndez, Claudia Araceli Contreras-Celedón* and Diego A. Alonso*



4561

Transforming aluminium waste: sustainable conversion to commercial MOFs, hydrogen fuel, and essential aluminium feedstocks

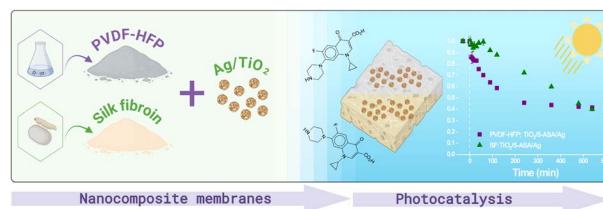
M. C. Lawrence, R. S. Horne and B. A. Blight*



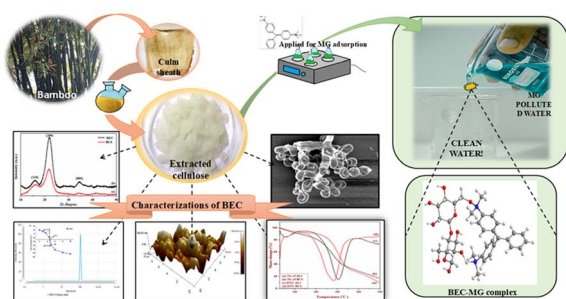
4568

Photocatalytic and antimicrobial polymer-based hybrid membranes with surface-modified TiO_2 nanoparticles with 5-aminosalicylic acid and silver nanoparticles

Joana M. Queirós, Fangyuan Zheng, Ricardo Brito-Pereira, Margarida M. Fernandes, Estela O. Carvalho, Pedro M. Martins,* Vesna Lazić,* Jovan M. Nedeljković and Senentxu Lanceros-Mendez



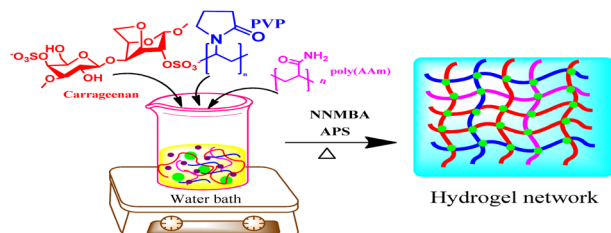
4583



Sustainable removal of malachite green using cellulose extracted from waste bamboo culm sheath

Diptiranjan Behera, Priyanka P. Mishra, Shruti S. Pattnaik, Nigamananda Das, Jagadish Kumar and Ajaya K. Behera*

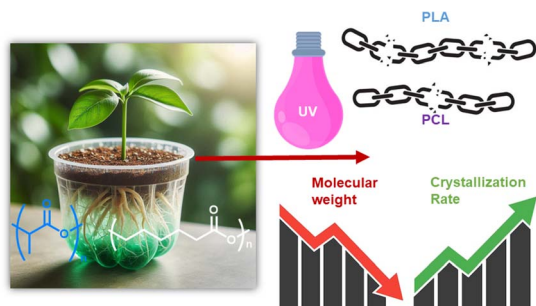
4598



Designing marine-derived carrageenan-based biomimetic functional materials *via* a green approach for sustainable development: cellular proliferation and mucosal tissue drug delivery applications

Nistha Thakur and Baljit Singh*

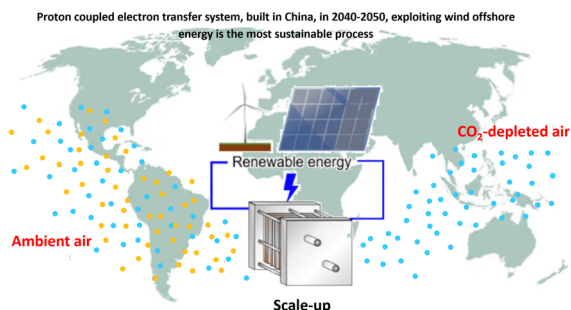
4622



Mechanical, barrier, and photodegradation properties of biodegradable PLA-based blend films

Ainhoa Fernández-Tena, Jorge L. Olmedo-Martínez,* Marcos A. Sabino G., Elizabeth Collinson, Juan V. López, Lourdes Irusta, Alba González, Antxon Martínez de Ilarduya, Gonzalo Guerrica-Echevarria, Nora Aranburu and Alejandro J. Müller*

4632



Sustainability analysis of electrochemical direct air capture technologies

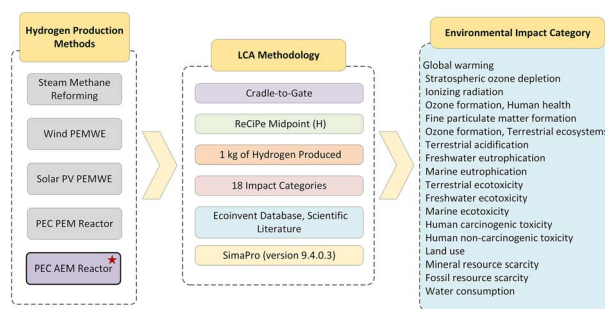
Grazia Leonzio* and Nilay Shah



4651

Solar to sustainability (S2S): a comparative life cycle assessment of hydrogen production with a focus on a photoelectrochemical anion exchange membrane reactor

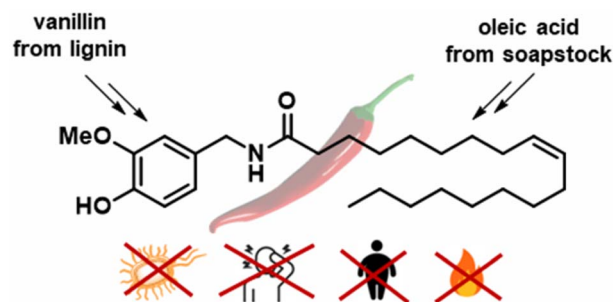
Vivek Prasad* and Farrukh Khalid



4667

Biocatalytic synthesis of the non-pungent capsaicinoid olvanil from agri-food waste

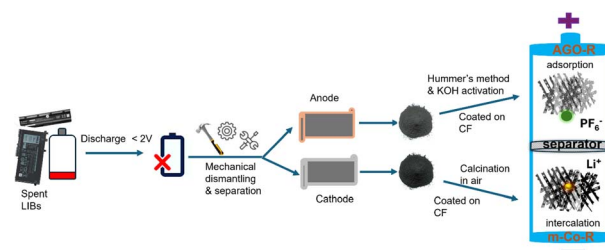
Celeste Nobbio, Daniele Fiorito, Eda Kocer, Stefano Magni, Erica Elisa Ferrandi, Daniela Monti, Elisabetta Brenna, Davide Tessaro* and Fabio Parmeggiani*



4677

Recycled electrode-based lithium-ion capacitors: an efficient route for transforming LIB waste into high-performance energy storage devices

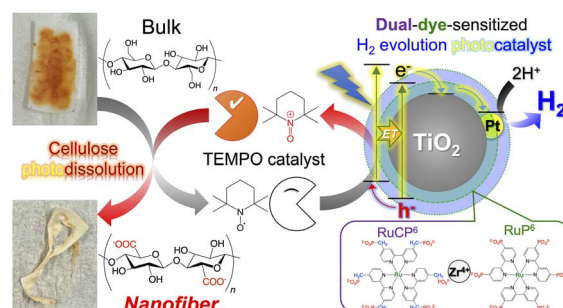
Subhajit Bhowmik, Tausif Ahamad Ansari, Madhushri Bhar and Surendra K. Martha*



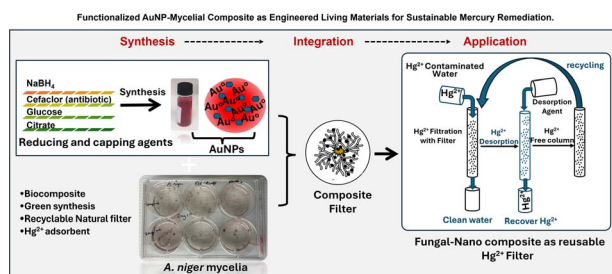
4688

Photocatalytic dissolution of cellulose for hydrogen and nanofiber production: unveiling crucial factors via experiments and informatics

Atsushi Kobayashi,* Atsushi Miura and Keisuke Takahashi



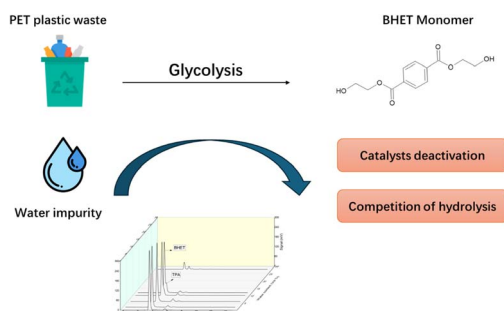
4703



Functionalized AuNP-mycelial composites as engineered living materials for sustainable mercury remediation

Juwon S. Afolayan and Carole C. Perry*

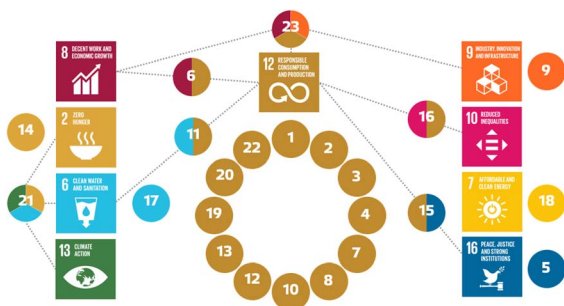
4714



Unraveling the role of water in catalytic glycolysis of PET

Zixian Jia,* Jie Zhang, Lin Gao, Haocheng Sun, Jiaying Chen, Lijiao Qin and Jianzhong Yin*

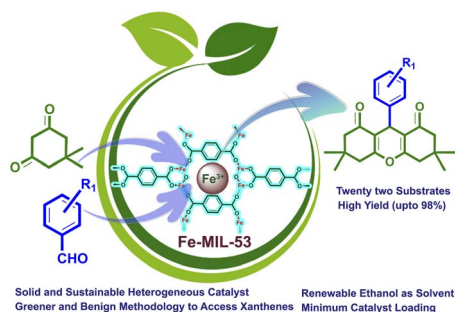
4724



Metrics are the key: development of criteria and indicators for measuring sustainability in international chemicals management

C. Blum,* B. Zeschmar-Lahl, E. Heidbüchel, H. C. Stolzenberg, K. Kümmerer, A. Becker and H. Friege*

4746



Fe(MIL-53) metal–organic framework as a facile and sustainable Lewis acidic catalyst for the one-pot synthesis of xanthene derivatives

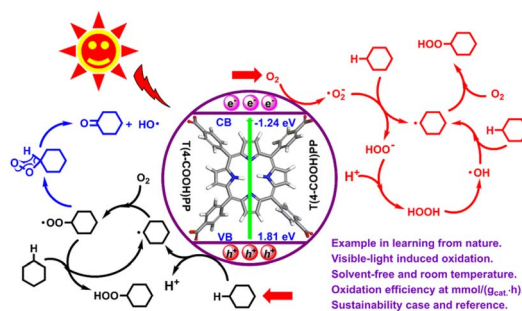
Ganesapandian Latha, Natarajan Saravanakumar, Nainamalai Devarajan, Kamaraj Shivarajan and Palaniswamy Suresh*



4759

Visible-light-induced photocatalytic oxidation of C–H bonds with O₂ employing simple porphyrins as photocatalysts under solvent-free conditions

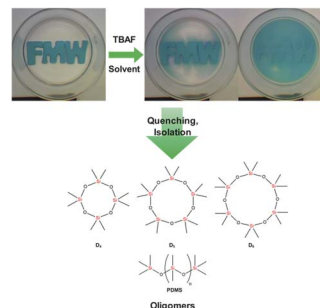
Yan-Bo Ding, Yi-Lin Chu, Qiu-Ping Liu, Hong-Ke Wu, Hai-Min Shen* and Yuan-Bin She*



4776

Exploration of solvent, volume, and catalyst effects on fluoride-catalyzed end-of-life depolymerization of silicones to cyclic monomers

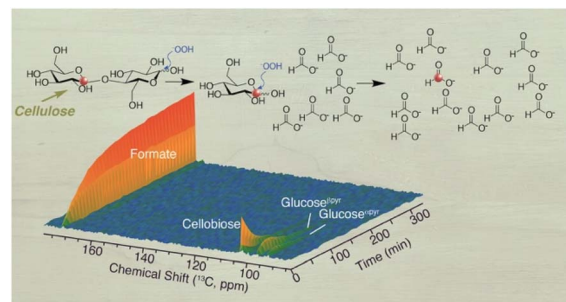
Andrew C. Deller, Herenia Espitia Armenta, E. A. Kalani, D. Edirisinghe, Mitchell E. Deller, Kristan L. Major, Buddhima Rupasinghe and Joseph C. Furgal*



4785

Disaccharides as substrates and mechanistic probes for efficient carbohydrate conversion to formic acid in water near room temperature

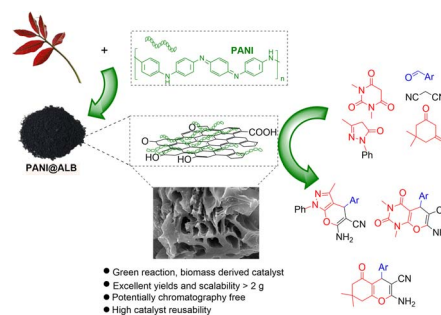
Stefan S. Warthegau, Mette-Maya Siewertsen, Robert Madsen and Sebastian Meier*



4794

Polyaniline-functionalized biochar (PANI@ALB) as a heterogeneous acid–base bifunctional catalyst for one-pot cascade reactions under green reaction conditions

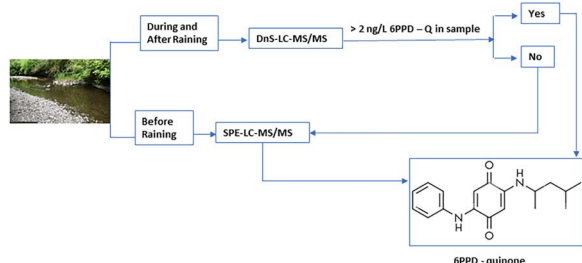
Nida Khan, Mohd Umar Khan, Mo Shadab, M. B. Siddiqui and Zeba N. Siddiqui*



PAPERS

4811

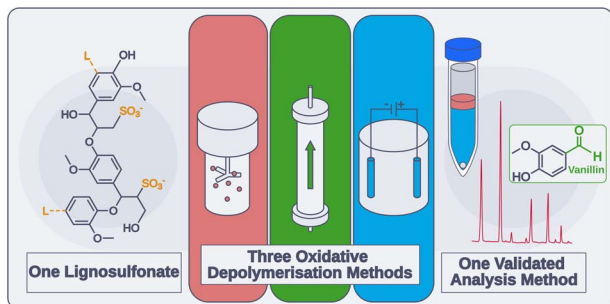
Environmentally benign strategy for quick detection and quantification of 6PPD-quinone



An environmentally sensitive method for rapid monitoring of 6PPD-quinone in aqueous samples using solid phase extraction and direct sample introduction with liquid chromatography and tandem mass spectrometry

Xiangjun Liao,^{*} Andrew R. S. Ross^{*} and Tanya M. Brown^{*}

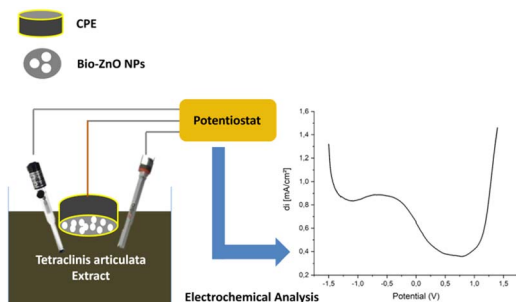
4818



Oxidative depolymerization of lignosulfonates to low-molecular weight aromatics: an interlaboratory study

Mynta Norberg, Selda Bekirovska, Jana Klein, Finn Moeller, Karl P. J. Gustafson, Margareta Sandahl, Christian P. Hultberg, Charlotta Turner, Omar Y. Abdelaziz, Siegfried R. Waldvogel, Peter Spégel^{*} and Oskar Bengtsson^{*}

4825



Development of a bio-synthesized zinc oxide nanoparticle sensor for the quantification of totarolone in *Tetraclinis articulata*

Omar anor, Sofia Kerouad,^{*} Issam Forsal, Wissal Kotmani, Mustapha Bouzaid and Latifa Bouissane