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IN THIS ISSUE

ISSN 1463-9262 CODEN GRCHFJ 25(24) 10103-10696 (2023)



Cover

See Jean-Philippe Tessonnier, Luke T. Roling *et al.*, pp. 10387–10397.

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Inside cover

See Yun Jeong Hwang, Jonggeol Na et al., pp. 10398–10414.

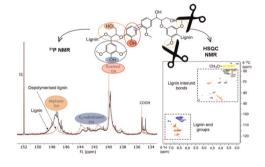
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TUTORIAL REVIEWS

10117

Selective demethylation reactions of biomass-derived aromatic ether polymers for bio-based lignin chemicals

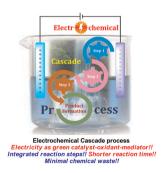
Florian M. Harth, Brigita Hočevar, Tina Ročnik Kozmelj, Edita Jasiukaitytė-Grojzdek, Jana Blüm, Michael Fiedel, Blaž Likozar* and Miha Grilc*



10144

Electrochemical cascade reactions: an account of recent developments for this modern strategic tool in the arsenal of chemical synthesis

Manoj Kumar Yadav and Sushobhan Chowdhury*



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TUTORIAL REVIEWS

10182

Advanced nano-bifunctional electrocatalysts in Li-air batteries for high coulombic efficiency

Jinyu Zhao, Rajesh Pathak,* Zhenxin Zhao, Xu Chen, Madan Bahadur Saud, Hansheng Li, Fan Wu, Quinn Qiao, Jeffrey W. Elam* and Xiaomin Wang*



10209

Molten salt technique for the synthesis of carbon-based materials for supercapacitors

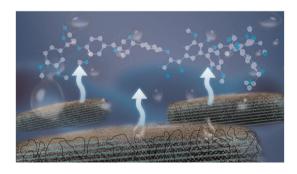
Yu Yang, Yunping Ma, Congcong Lu, Songjun Li* and Maiyong Zhu*



10235

The dawn of aqueous deep eutectic solvents for lignin extraction

Mingyang Hu, Yanyan Yu, Xiaoyan Li, Xinyu Wang and Yun Liu *



10263

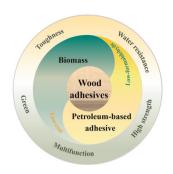
Salt-assisted synthesis of advanced carbon-based materials for energy-related applications

Maiyong Zhu,* Yu Yang and Yunping Ma



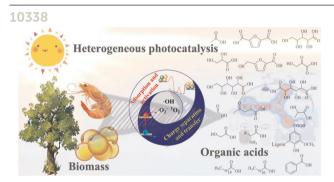
CRITICAL REVIEWS

10304



Recent progress of biomass in conventional wood adhesives: a review

Wei Tian, Xiaoyi Wang, Yuhang Ye, Weijie Wu, Yuli Wang, Shaohua Jiang, Jiangbo Wang and Xiaoshuai Han*

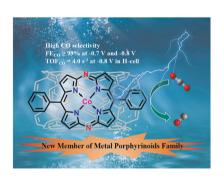


Heterogeneous photocatalysis for biomass valorization to organic acids

Tengyu Liu, Jinshu Huang, Jie Li, Keping Wang, Zhenyan Guo, Hongguo Wu,* Song Yang and Hu Li*

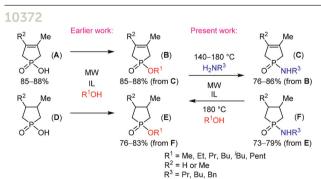
COMMUNICATIONS

10366



Cobalt macrocyclic complex-catalyzed selective electroreduction of CO₂ to CO

Wen-Jun Xie, Jin-Mei Chen, Zhi-Wen Yang and Liang-Nian He*



Microwave-assisted, ionic liquid-catalyzed aminolysis and alcoholysis of phosphinic derivatives: the interconversion of phosphinates and phosphinic amides

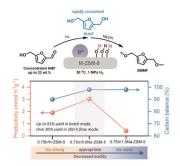
György Keglevich,* Nikoletta Harsági and Sarolta Szilágyi

COMMUNICATIONS

10381

Towards scalable reductive etherification of 5-hydroxymethyl-furfural through iridium-zeolite-based bifunctional catalysis

Zehui Sun, Mugeng Chen, Kaizhi Wang, Chen Chen, Jiachen Fei, Wendi Guo, Conglin Zhu, Heyong He, Yongmei Liu* and Yong Cao*

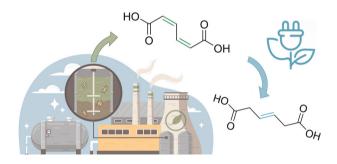


PAPERS

10387

Local reactivity descriptors to decipher the electrochemical hydrogenation of unsaturated carboxylic acids

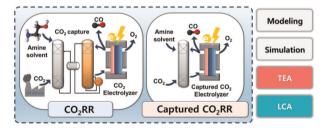
Marco Nazareno Dell'Anna, Geet Gupta, Prathamesh T. Prabhu, Ting-Hung Chu, Luke T. Roling* and Jean-Philippe Tessonnier*



10398

Techno-economic analysis and life-cycle assessment of the electrochemical conversion process with captured CO₂ in an amine-based solvent

Suhyun Lee, Woong Choi, Jae Hyung Kim, Sohyeon Park, Yun Jeong Hwang* and Jonggeol Na*



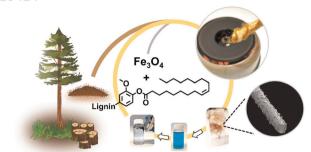
10415

Synergizing mitigated spatial confinement and chemical stabilization of lignin facilitates full utilization of lignocellulose

Jiayi Zheng, Liheng Chen,* Xueqing Qiu,* Shirong Sun and Xuliang Lin



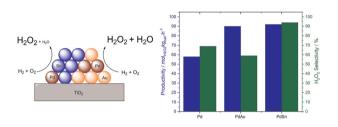
10424



Mechanically recyclable melt-spun fibers from lignin esters and iron oxide nanoparticles: towards circular lignin materials

Unnimaya Thalakkale Veettil, Adrian Moreno, Alberto J. Huertas-Alonso, Mohammad Morsali, Ievgen V. Pylypchuk, Li-Yang Liu and Mika H. Sipponen*

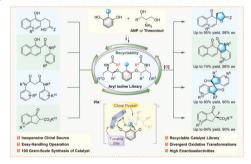
10436



A comparative study of palladium-gold and palladium-tin catalysts in the direct synthesis of H_2O_2

Dávid Kovačič, Richard J. Lewis,* Caitlin M. Crombie, David J. Morgan, Thomas E. Davies, Ángeles López-Martín, Tian Qin, Christopher S. Allen, Jennifer. K. Edwards, Liwei Chen, Martin Skov Skjøth-Rasmussen, Xi Liu* and Graham J. Hutchings*

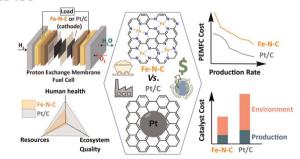
10447



New conformationally flexible and recyclable aryl iodine catalysts from an inexpensive chiral source for asymmetric oxidations

Hai-Jie Zhou, Yi-Ping Yao, Tonghui Zhang, Biao Chen, Xu Wang, Hang Zhao, Jie Zeng, Jian-Ai Chen, Xiao Xiao* and Fen-Er Chen*

10458



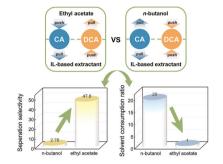
Comparative techno-economic and life-cycle analysis of precious *versus* non-precious metal electrocatalysts: the case of PEM fuel cell cathodes

Angus Pedersen, Jinil Pandya, Grazia Leonzio, Alexey Serov, Andrea Bernardi, Ifan E. L. Stephens, Maria-Magdalena Titirici, Camille Petit and Benoît Chachuat*

10472

A synergistic 'push and pull' ionic liquid biphasic system for enhanced extraction separation of cholic acid and deoxycholic acid

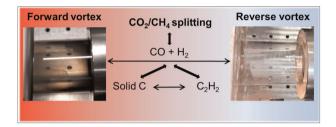
Zexiang Ding, Fanding Rong, Yifeng Cao,* Yuanyuan Shen, Liu Yang, Lihang Chen, Qiwei Yang, Zhiguo Zhang, Qilong Ren and Zongbi Bao*



10485

Avoiding solid carbon deposition in plasma-based dry reforming of methane

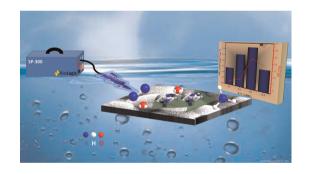
Omar Biondo,* Cas F. A. M. van Deursen, Ashley Hughes, Alex van de Steeg, Waldo Bongers, M. C. M. van de Sanden, Gerard van Rooij and Annemie Bogaerts



10498

One-step synthesized Nb₂O_{5-y}-decorated spinel-type (Ni,V,Mn)₃O_{4-x} nanoflowers for boosting electrocatalytic reduction of nitrogen into ammonia

Tadele Negash Gemeda, Dong-Hau Kuo* and Quoc-Nam Ha



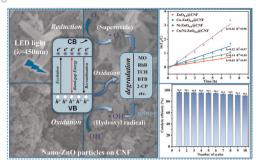
10513

The quantitative conversion of polyethylene terephthalate (PET) and Coca-Cola bottles to p-xylene over Co-based catalysts with tailored activities for deoxygenation and hydrogenation

Yuewen Shao, Mengjiao Fan, Kai Sun, Guoming Gao, Chao Li, Dianqiang Li, Yuchen Jiang, Lijun Zhang, Shu Zhang and Xun Hu*



10530



Cu and Ni dual-doped ZnO nanostructures templated by cellulose nanofibrils for the boosted visible-light photocatalytic degradation of wastewater pollutants

Jiangang Yu,* Pingnian Bao, Jia Liu, Yi Jin, Jie Li and Yanwen Lv*

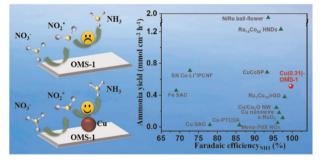
10538



A sustainable waste plastic valorisation: conversion of discarded polyurethane into an active micro-cleaner using a DES system

Ashok Shrishail Maraddi, Manohara Halanur Mruthunjayappa, Smitha V. Kamath, Glenita D'Souza, Hyeonseok Yoon* and S. K. Nataraj*

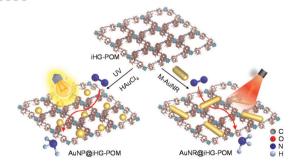
10549



Near 100% selectivity for ammonia synthesis at a high current density by promoting nitrate protonation on the copper dispersed todorokite-type manganese oxide

Shijia Li, Chuqian Xiao, Rongzhen Chen, Mengyi Wang, Yuting Ma, Kaiwen Luo, Muyao Shen, Yihua Zhu, Yuhang Li* and Chunzhong Li*

10556



Gold nanocrystal-loaded 2D supramolecular network for plasmon-enhanced nitrogen fixation

Gengxin Wang, Bingjin Li, Bao Li* and Lixin Wu*

10567

Converting food waste into high-value medium chain fatty acids and long chain alcohols via chain elongation with an internally produced electron donor

Lan Wu, Wei Wei,* Jin Qian, Xueming Chen and Bing-Jie Ni*



10576

Integrating multi-method approaches for the green separation and retrieval of nickel and phosphorus from spent electroless nickel plating solutions

Zhontian Dong, Zhiren Zhao, Fenghe Wang, Fengyun Wang* and Mingzhu Xia*

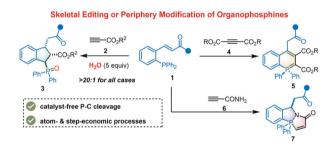


oxidation and decomplexation+ stepwise precipitation + capacitive deionization

10587

Distinct reactivities of ortho-chalcone-substituted organophosphines with activated alkynes: skeletal editing or periphery modification

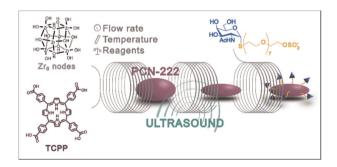
Chaoyang Li, Xinyue Niu, Wan Xu,* Zhanwei Bu, Wenjing Zhang* and Qilin Wang*



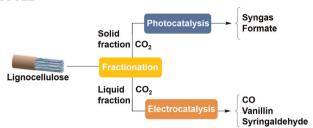
10596

Continuous flow synthesis of PCN-222 (MOF-545) with controlled size and morphology: a sustainable approach for efficient production

Alessio Zuliani,* M. Carmen Castillejos and Noureddine Khiar*



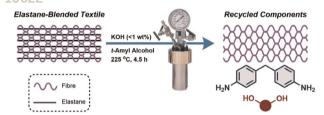
10611



Valorisation of lignocellulose and low concentration CO₂ using a fractionation—photocatalysis—electrolysis process

Santiago Rodríguez-Jiménez, Erwin Lam, Subhajit Bhattacharjee and Erwin Reisner*

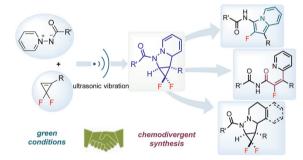
10622



Selective chemical disassembly of elastane fibres and polyurethane coatings in textiles

Martin B. Johansen, Bjarke S. Donslund, Martin L. Henriksen, Steffan K. Kristensen* and Troels Skrydstrup*

10630



Practical conversion of *gem*-difluorocyclopropenes for the chemodivergent assembly of fluorinated heterocyclic frameworks

Dongping Pan, Fu-Xiaomin Liu, Zhongyi Zeng, Junwei Ye, Ying Cai, Shengdong Wang, Zhi Zhou* and Wei Yi*

10638

- 1st metal-free asymmetric reaction of alkynyl thioethers
- CADA reaction via direct alkyne activation
- unique S-containing products high enantioselectivity

Chiral Brønsted acid-catalyzed asymmetric dearomative spirocyclization of alkynyl thioethers

Xin-Yang Fan, Jia-Cheng Li, Ji-Jia Zhou,* Bo Zhou and Long-Wu Ye*

10644

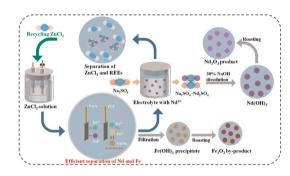
Thermoplastic, redox recyclable silicone-lipoamide elastomers

Muhammad Ebad Noman, Sijia Zheng, Haiyan Xue and Michael A. Brook*

10653

An acid-free process for selective REE recovery from spent NdFeB magnets by room-temperature electrolysis

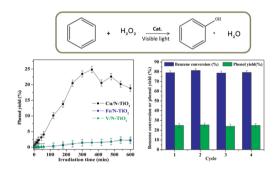
Zhang Zhihan, Wang Zhi, Wang Dong,* Min Rui, Xiao Wanhai, Lin Yong and Li Guobiao*



10664

Tuning the selectivity of visible light-driven hydroxylation of benzene to phenol by using Cu, Fe and V oxides supported on N-doped TiO₂

Antonietta Mancuso, Alessandro Gottuso, Francesco Parrino,* Rosaria Anna Picca, Vincenzo Venditto, Olga Sacco* and Vincenzo Vaiano



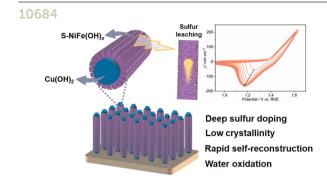
10678

Additive-free aerobic oxidative difunctionalization of alkenes with P₄S₁₀ and alcohols to access β-hydroxy phosphorodithioates

Chengming Qu, Yufen Lv, Jian Huang, Chao Ma, Huilan Yue, Wei Wei* and Dong Yi*

$$R^1 = \text{aryl},$$
 $R^2 = \text{H}, \text{ or alkyl}$
 $R^1 = 2\text{-pyridine}$
 $R^1 = Alkoxyacyl$
 $R^1 = Alkoxyacyl$
 $R^1 = Alkoxyacyl$
 $R^2 = Alkoxyacyl$
 $R^1 = Alkoxyacyl$

* Additive-free * Mild conditions * Simple operation Broad substrate scope * Good functional group tolerance



Deep sulfur doping induces the rapid electrochemical self-reconstruction of Ni-Fe hydroxide to drive water oxidation

Xiaoge Li,* Jun Zhao, Jinhua Zhou, Qinchao Wang* and Jie Han*

CORRECTION

10693

Correction: Utilization of fluoroform for difluoromethylation in continuous flow: a concise synthesis of α -difluoromethyl-amino acids

Manuel Köckinger, Tania Ciaglia, Michael Bersier, Paul Hanselmann, Bernhard Gutmann* and C. Oliver Kappe*