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Lee B. Anderson, Conall Molloy, Lorenzo Pedrini, Ian L. Martin and Stephen J. Connon*



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COMMUNICATIONS



Co/Zn-Glucosamine

900 3 h Ar

R^CN

Condensation

template on SiO₂

Etchin

5 M NH4HF2

R-(H

R.H

R.

Converting waste PET into dimethyl terephthalate and diverse boronic esters under metal-free conditions

Minghao Zhang, Yunkai Yu, Zhuo Wang, Shaoyu Zhang, Xiong Gao, Jiaming Liu, Jing Li, Weixiang Wu and Qingging Mei*

Reusable Co-catalysts for general and selective α -alkylation of nitriles with alcohols

Zhuang Ma, Zechen Wu, Carsten Kreyenschulte, Stephan Bartling, Henrik Lund, Matthias Beller* and Rajenahally V. Jagadeesh*

PAPERS

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CoCl₂·6H₂O + ZnCl₂ Immobilization on

HO. -0 ·HCI

HO NH2 HOH

Glucosamine

colloidal silica

R. 0

R₂(H) Rí HO H. R₂(H)

11147 by dea and a

Toward safer and more sustainable by design biocatalytic amide-bond coupling

Elisabeth Söderberg, Kerstin von Borries, Ulf Norinder, Mark Petchey, Ganapathy Ranjani, Swapnil Chavan, Hanna Holmguist, Magnus Johansson, Ian Cotgreave, Martin A. Hayes, Peter Fantke and Per-Olof Syrén*



Continuous production of 1,2-pentanediol from furfuryl alcohol over highly stable bimetallic Ni-Sn alloy catalysts

Ajaysing S. Nimbalkar, Kyung-Ryul Oh, Do-Young Hong, Byung Gyu Park, Maeum Lee, Dong Won Hwang, Ali Awad, Pravin P. Upare,* Seung Ju Han* and Young Kyu Hwang*

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Effective, mild, scalable

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Minimizing heterogeneous Pd species

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Pol Martínez-Balart, Álvaro Velasco-Rubio, Sergio Barbeira-Arán, Hugo Jiménez-Cristóbal and Martín Fañanás-Mastral*



Chemodivergent pathways

Important fluorinated motifs from abundant feedstocks

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A spatially integrated electrochemical-thermal tandem reaction for continuous mild synthesis of propylene oxide

Yuefeng Qiu, Peng Jiang, Wenkai Ye, Jiahao Hu, Bin Zhang, Tuo Ji, Liwen Mu, Xin Feng, Xiaohua Lu and Jiahua Zhu*



PO Selectivity: 95.2%; PO Yield: 319.75 mmol·g_{ecat}-1·h⁻¹

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▲ Regulatable selectivity ▲ Good functional group compatibility

Regulatable selective synthesis of benzofurans and coumarins from aryl propargyl ethers *via* an electrochemical tandem cyclization reaction

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Catalytic synthesis of renewable lubricant base oils with methyl oleate and aromatics

Binbin Zhou, Nan Wang, Sibao Liu* and Guozhu Liu*

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Biomass-derived polyol esters as sustainable phase change materials for renewable energy storage

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Ting Lin, Menglu Cai, Huijie Chen and Yiming Mo*



High current density ■ Facile product separation ■ Low waste electrolyte generation



Comparative techno-economic and life cycle assessment of electrocatalytic processes for lignin valorization

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A paired alkaline electrolyzer for furfural oxidation and hydrogen evolution over noble metal-free NiFe/Ni and Co/MXene catalysts

Xiaopeng Liu, Mohammad Albloushi, Michael Galvin, Connor W. Schroeder, Yue Wu* and Wenzhen Li*



CORRECTION

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Correction: Continuous production of 1,2-pentanediol from furfuryl alcohol over highly stable bimetallic Ni–Sn alloy catalysts

Ajaysing S. Nimbalkar, Kyung-Ryul Oh, Do-Young Hong, Byung Gyu Park, Maeum Lee, Dong Won Hwang, Ali Awad, Pravin P. Upare,* Seung Ju Han* and Young Kyu Hwang*