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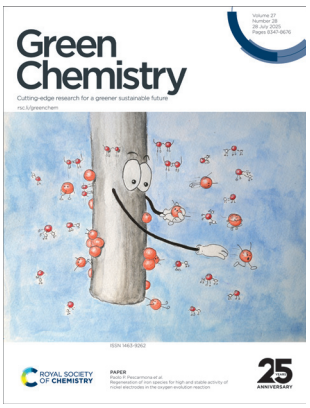

Cover
See Paolo P. Pescarmona *et al.*, pp. 8505–8516.

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Inside cover
See Xinhua Qi, Haixin Guo *et al.*, pp. 8414–8447.

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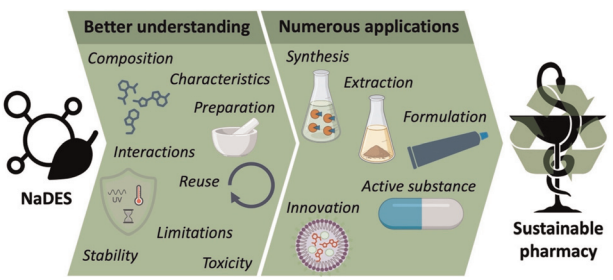
EDITORIAL

CRITICAL REVIEWS



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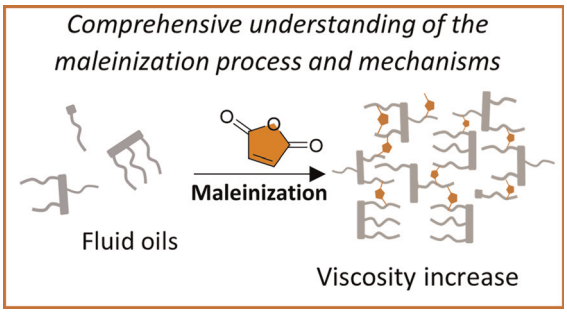
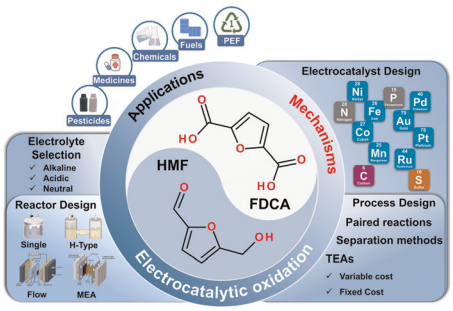
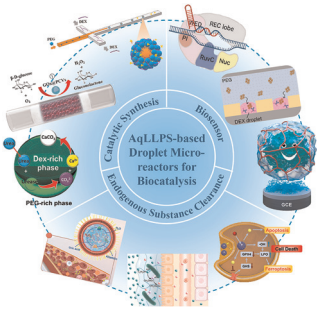
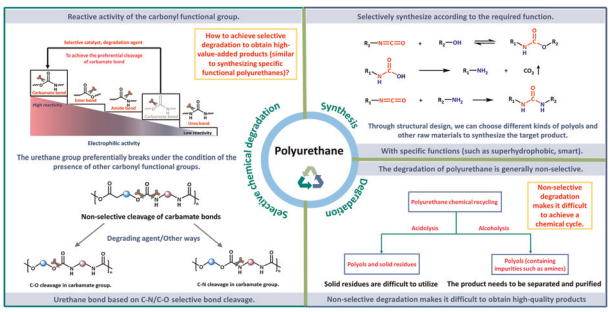


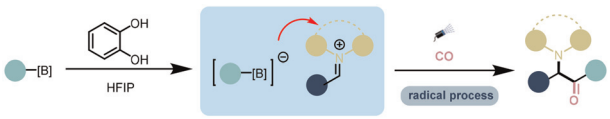
TUTORIAL REVIEWS





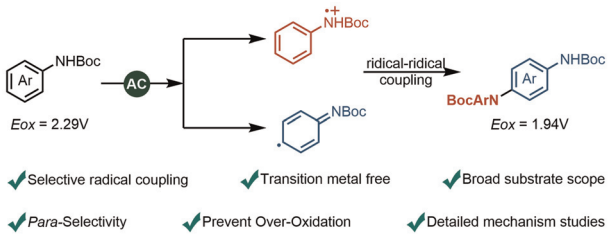


COMMUNICATIONS



A catechol-catalyzed photocatalytic carbonylative four-component reaction of alkylboronic acids with aldehydes and amines

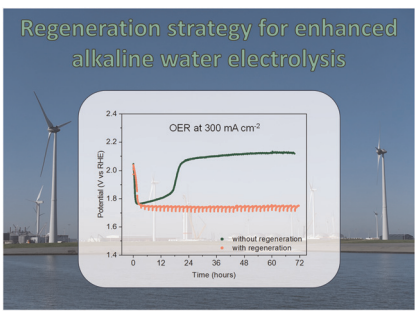
Qiangwei Li, Le-Cheng Wang and Xiao-Feng Wu*



Alternating current enabled *para*-selective C(sp^2)–H/N–H cross-coupling of aniline

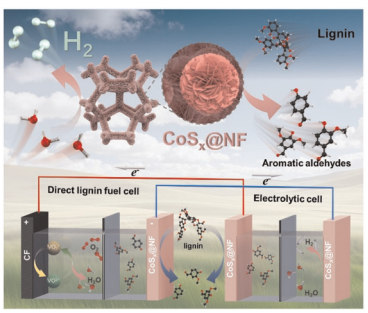
Zhaoliang Yang,* Haiyan Du, Yuan Zhou, Mingming Yu and Jianye Zhang*

PAPERS



Regeneration of iron species for high and stable activity of nickel electrodes in the oxygen evolution reaction

Stefano Poli, Claude Poleunis, Matteo Miola, Dominic Gerlach, Petra Rudolf, Arnaud Delcorte, Hans Lammers, Matheus T. de Groot, Dulce M. Morales and Paolo P. Pescarmona*



Efficient harvesting of electricity, aromatic aldehydes and H_2 from lignin over nanoflower-like cobalt-based bifunctional electrocatalysts

Yichen Zhang, Daihong Gao, Denghao Ouyang, Binhang Yan and Xuebing Zhao*

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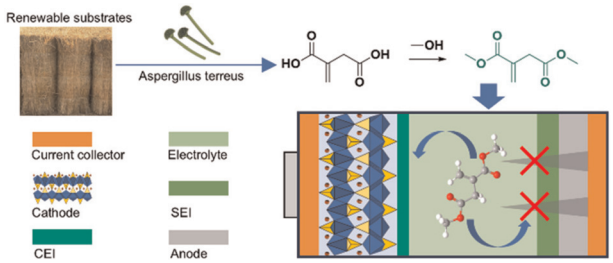

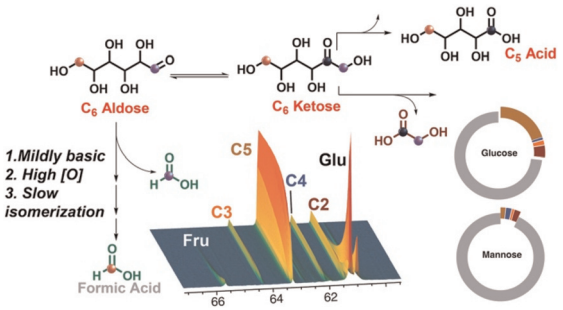

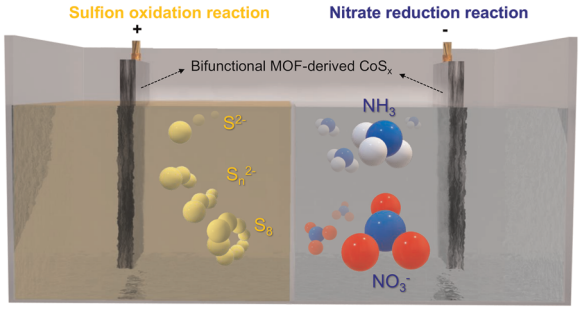

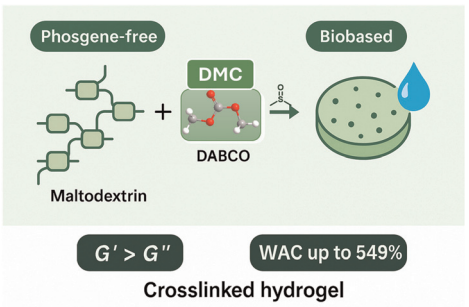

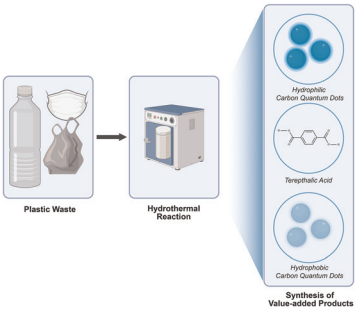

Single step, one-pot, catalyst-free upcycling of polyethylene terephthalate into biphasic carbon dots and high-purity terephthalic acid

Kevin Brian, Mahmoud Elbeh, Mohammed Abdelhameed, Batoul Khlaifat, Fatma Alrebh, Liaqat Ali, Batool Abedrabbo, Brijith Thomas and Khalil B. Ramadi*