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See Sakhitha Koranchali and Martin Nielsen, pp. 803–810. Image reproduced by permission of Martin Nielsen from *EES Catal.*, 2024, 2, 803.



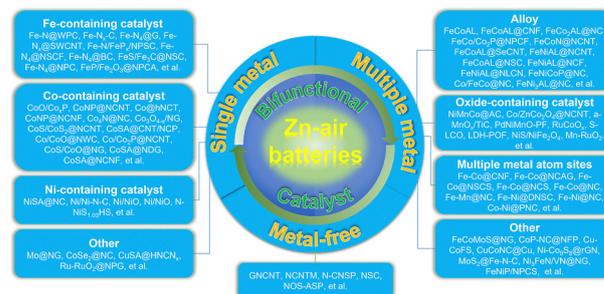
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Advanced bifunctional catalyst design for rechargeable zinc–air batteries

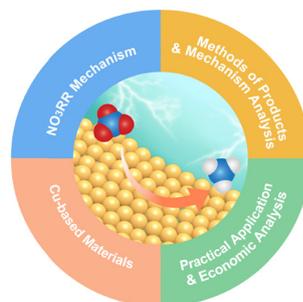
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Cu-based catalysts for electrocatalytic nitrate reduction to ammonia: fundamentals and recent advances

Kouer Zhang, Yun Liu, Zhefei Pan, Qing Xia, Xiaoyu Huo, Oladapo Christopher Esan, Xiao Zhang* and Liang An*



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Fundamental questions
Elemental answers

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A comparative overview of the electrochemical valorization and incorporation of CO₂ in industrially relevant compounds

Jef R. Vanhoof, Sander Spittaels and Dirk E. De Vos*

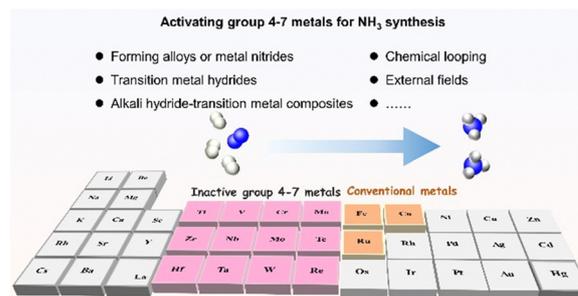


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Wenbo Gao, Yawei Wang, Qianru Wang, Zhaolong Sun, Jianping Guo* and Ping Chen

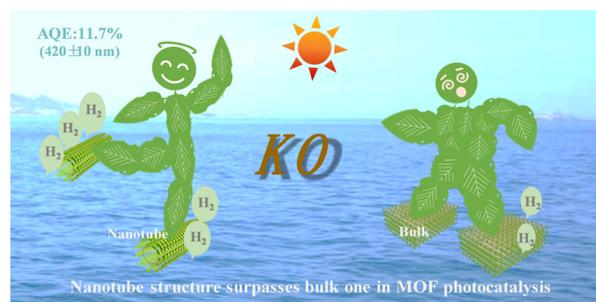


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One-dimensional nanotube of a metal–organic framework boosts charge separation and photocatalytic hydrogen evolution from water: synthesis and underlying understanding

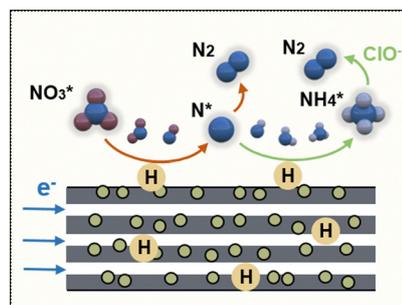
Lifang Liu, Yejun Xiao, Xiangyang Guo, Wenjun Fan, Nengcong Yang, Chunmei Jia, Shengye Jin and Fuxiang Zhang*



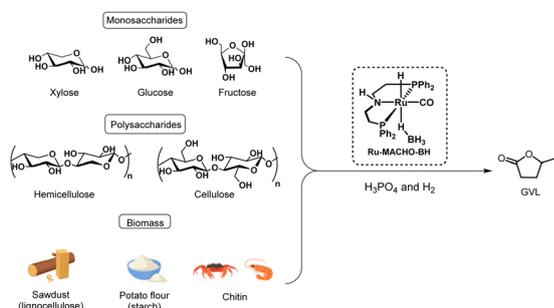
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Multichannel nitrogen-doped carbon fiber confined Fe₃C nanoparticles for efficient electroreduction of nitrate

Fangzhou Zhang, Zhangsheng Shi, Junliang Chen, Hongxia Luo, Jun Chen* and Jianping Yang*



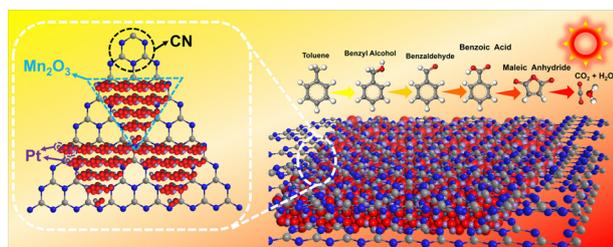
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Direct biomass valorisation to γ -valerolactone by Ru-PNP catalysed hydrogenation in acid

Sakhitha Koranchalil and Martin Nielsen*

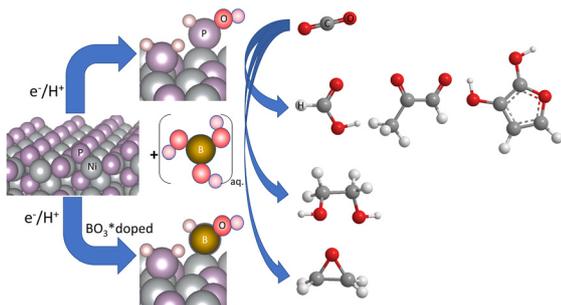
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Photothermal catalytic oxidation of toluene over the Pt-Mn₂O₃/CN nanocomposite catalyst

Xiao Yu, Chuang Zhao, Lixia Yang,* Jian Zhang* and Chunlin Chen*

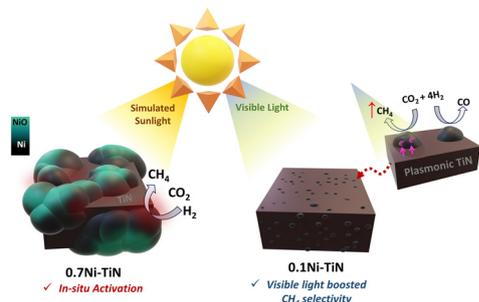
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Yifei Li, Karin U. D. Calvinho, Mahak Dhiman, Anders B. Laursen, Hengfei Gu, Dominick Santorelli, Zachary Clifford and G. Charles Dismukes*

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Making light work: designing plasmonic structures for the selective photothermal methanation of carbon dioxide

Yi Fen Zhu, Bingqiao Xie, Jodie A. Yuwono, Priyank Kumar, Abhinav S. Sharma, Michael P. Nielsen, Avi Bendavid, Rose Amal, Jason Scott* and Emma C. Lovell*

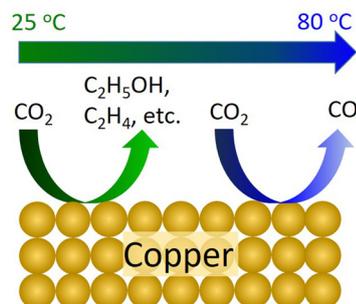


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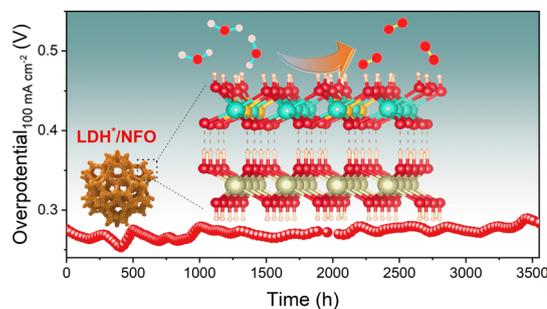
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Epitaxial heterointerfacial electron bridge synchronizes oxygen evolution activity and stability on a layered double hydroxide surface

Jia Wang, Zelin Zhao, Min Guo, Liang Xiao, Haolin Tang, Jiantao Li,* Zongkui Kou* and Junsheng Li*



CORRECTION

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Correction: Advanced bifunctional catalyst design for rechargeable zinc–air batteries

Tao Wang, Zezhong Shi, Faxing Wang, Jiarui He, Yiren Zhong, Yuan Ma, Zhi Zhu, Xin-Bing Cheng, Kenneth I. Ozoemena* and Yuping Wu*

