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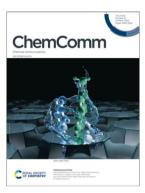
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See Frank Biedermann, Ettore Fois, Gloria Tabacchi et al., pp. 4160–4163. Image reproduced by permission of Ettore Fois from Chem. Commun., 2025, 61, 4160.

HIGHLIGHT

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Current progress in layered double hydroxide-based electrocatalysts for urea oxidation: insights into strategies and mechanisms

Asha K Satheesan, Ragunath Madhu, Sreenivasan Nagappan, Hariharan N Dhandapani, Aditi De, Suprobhat Singha Roy, Prasita Mazumder and Subrata Kundu*

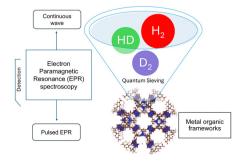


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Electron paramagnetic resonance spectroscopy: toward the path of dihydrogen isotopologue detection in porous materials

Muhammad Fernadi Lukman and Andreas Pöppl*





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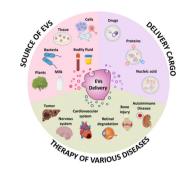


FEATURE ARTICLES

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Engineered extracellular vesicles: an emerging nanomedicine therapeutic platform

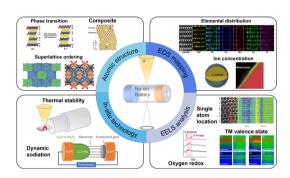
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Sheng Xu, Lihua Zhao,* Shukui Li and Shaohua Guo*

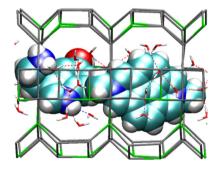


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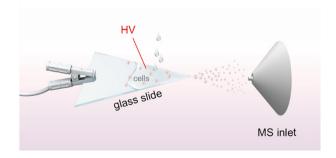
Cristiano Invernizzi, Laura M. Grimm, Frank Biedermann,* Ettore Fois* and Gloria Tabacchi*



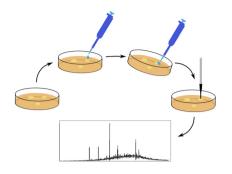
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Xiyang Ge, Xiner Xing, Xiaoni Wang, Yiyan Yin, Xiaotong Shen, Jin Ouyang and Na Na*



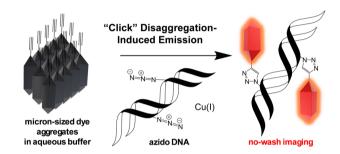
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Native ambient mass spectrometry of membrane proteins directly from bacterial colonies

Yuying Du and Helen J. Cooper*

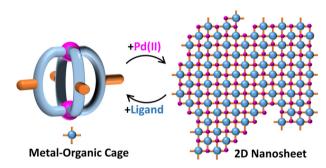
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Kaleena Basran and Nathan W. Luedtke*

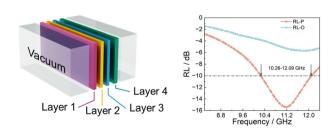
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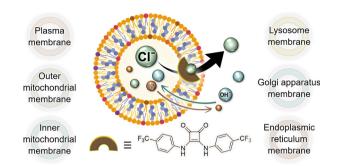
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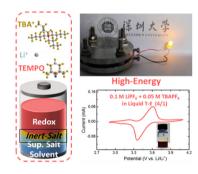
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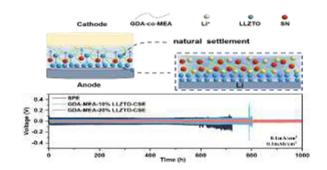
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Karina S. Wong, Mohammad Ghanbari* and Bruce A. Arndtsen*

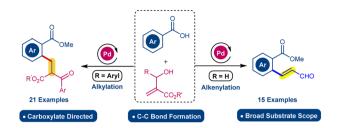
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In situ construction of an asymmetric composite electrolyte with structural gradients for dendrite-free lithium metal batteries

Tao You, Lehao Pan, Jingchao Liu, Yifan Zhao, Fengquan Liu, Chen Wang* and Lin Li*



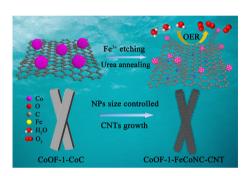
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Hemanga Bhattacharyya, Sharajit Saha, Kshitiz Verma and Tharmalingam Punniyamurthy*

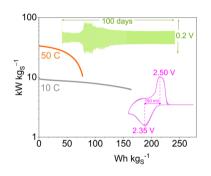
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Co-MOF-derived carbon nanomaterials with size-controlled FeCo alloys for oxygen evolution

Junliang Chen, Yunan Ye, Yi Wu, Jie Liu, Xuemei Zhou, Qipeng Li and Jinjie Qian*

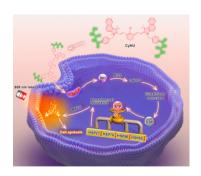
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Fluorescence probe for the fast and sensitive detection and imaging of ONOO via regulation of charge distribution

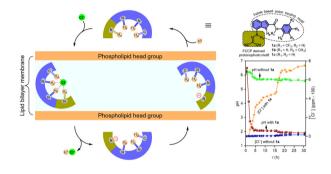
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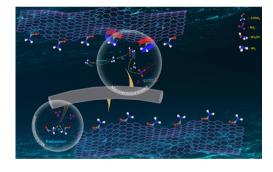
Akram Raza, Sandip Chattopadhayay, Debashis Mondal and Pinaki Talukdar*



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"Soft armor" regulates the electrocatalytic microenvironment for nitrate reduction to ammonia to greatly enhance stability

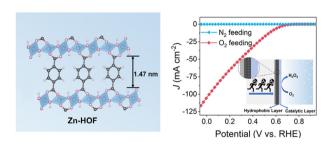
Xinxin Ji, Jiwen Hu, Hui Zhang,* Shikuo Li* and Fangzhi Huang*



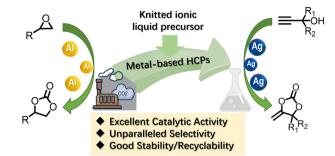
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A zinc hydroxide-organic framework for electrochemical synthesis of H₂O₂

Jiajia Zou, Yang Yu, Dantong Zhao and Weihua Hu*



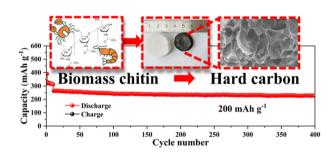
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Integrating metal complex units into knitted hypercrosslinked polymers for enhanced efficiency of cyclization reactions with CO2

Yingyin Li, Ke Lin, Zhiyuan Chen, Yinghua Lu and Rongchang Luo*

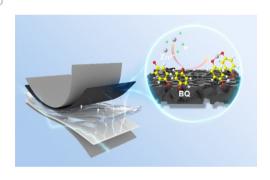
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Renewable chitin-derived hard carbon as a free-standing anode for sodium-ion batteries

Wenting Liu, Xiaoyu Wu,* Feng Wang and Zhenzhen Wu

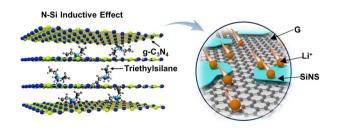
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Revitalizing inert carbon pores with benzoquinone for high-performance flexible zinc-ion capacitors

Lintong Hu, Xiaolong Li, Yunpeng Zhou, Can Cui, Minjie Shi and Chao Yan*

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Restriction of silicon aggregation upon enhanced bond cleavage

Shuyue Xue, Peng Li,* Yingchun Yan, Qinggang Zhang,* Zhen Wang, Zifei Sun and Jin Zhou*

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Metal-free carbon nitride catalyst for toluene oxidation

Yanping Li, Lizheng Chen, Tao Gan, Xuefeng Chu, Wanchun Zhu, Wenxiang Zhang, Wenfu Yan and Gang Liu*

