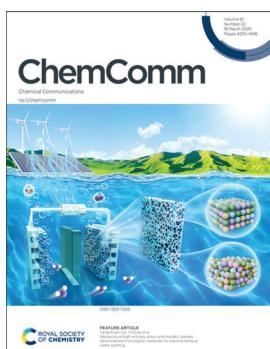


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ISSN 1359–7345 CODEN CHCOFS 61(22) 4255–4418 (2025)



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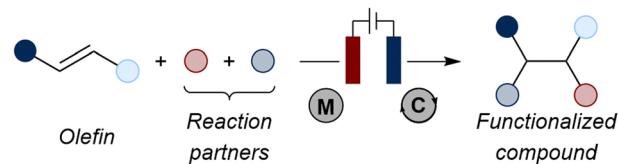
See Yangchuan Cai, Yi Ding *et al.*, pp. 4279–4292.
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HIGHLIGHT

4265

Navigating electrochemical oxidative functionalization of olefins: selected mechanistic and synthetic examples

Chun Qi, Marharyta Laktsevich-Iskryk and Daniele Mazzarella*



Radical and ionic mechanisms

Direct electrochemistry

Use of mediators

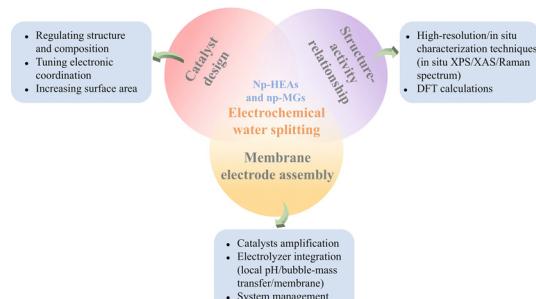
Catalytic activation modes

FEATURE ARTICLES

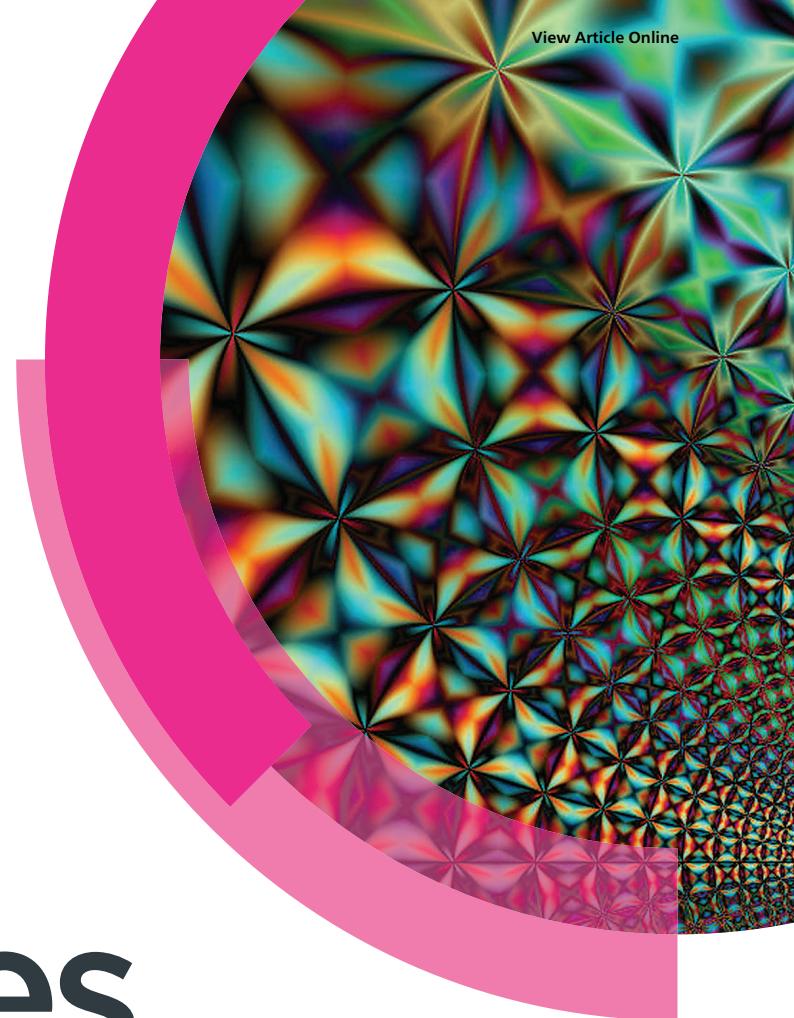
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Nanoporous high-entropy alloys and metallic glasses: advanced electrocatalytic materials for electrochemical water splitting

Yu Zhang, Yangchuan Cai* and Yi Ding*



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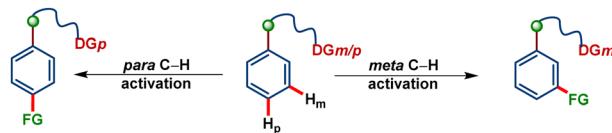
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Palladium catalyzed regioselective distal C (sp^2)–H functionalization

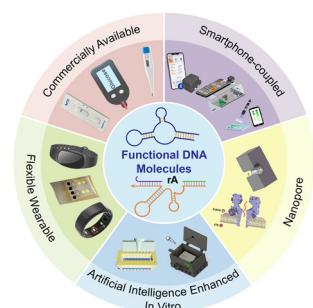
Rachit Singh Chauhan, Yogesh Bairagi, Om Desai,
Rafal Kowalczyk* and Debabrata Maiti*



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Molecular engineering of functional DNA molecules toward point-of-care diagnostic devices

Jiayin Zhan,* Siyuan Wang, Xiang Li and Jingjing Zhang*

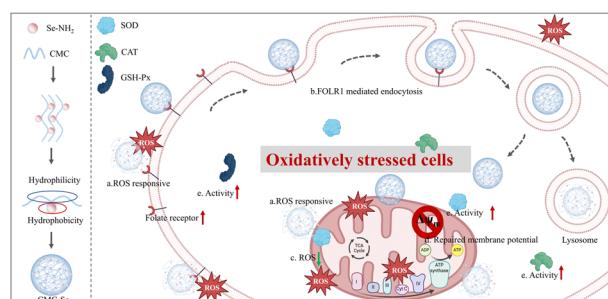


COMMUNICATIONS

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Cellular uptake mechanisms of a diselenide-based ROS-responsive nanocarrier in oxidatively stressed colon cells

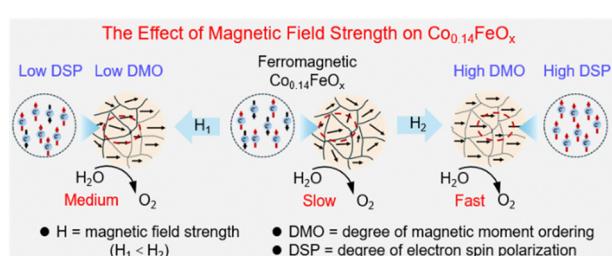
Wanqi Liang, Dong Li, Jinheng Hao, Wenli Dai,
Bo-Bo Zhang* and Qiongqiong Yang*



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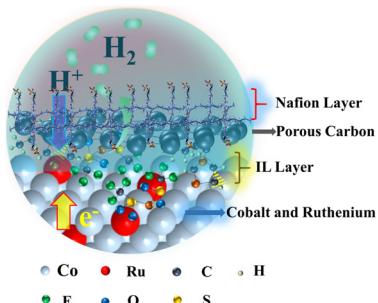
Ferromagnetic transformation of $\alpha\text{-Fe}_2\text{O}_3$ via Co doping for efficient water oxidation under magnetic field

Hong Wang, Yuan Dong, Jie Ying,* Ziheng Zhu,
Yuan Feng, Yu-Xuan Xiao, Ge Tian, Ling Shen,
Wei Geng, Yi Lu, Siming Wu and Xiao-Yu Yang*



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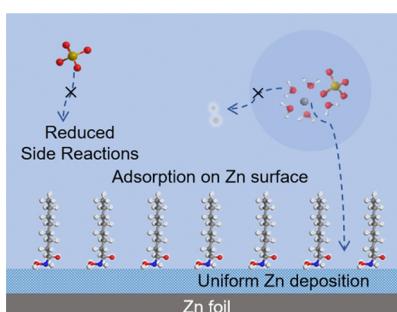
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A hydrophobic ionic liquid enhances electrocatalytic hydrogen evolution reaction on high specific-surface ruthenium-doped cobalt catalysts

Tao Zhang, Longjiang Li, Shucheng Liu and Yi Liu*

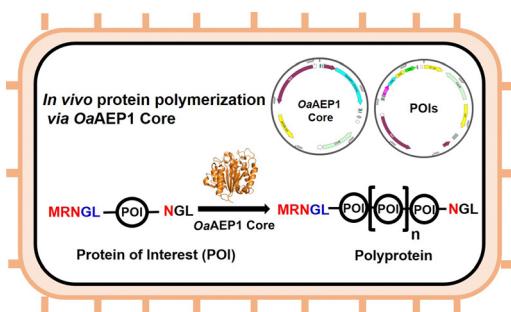
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Ultralow and biodegradable electrolyte additives for dendrite-free Zn anodes

Xinyu Chen, Dongdong Wang, Shaojie Zhang, Gulian Wang, Xiaojian Ma* and Jian Yang*

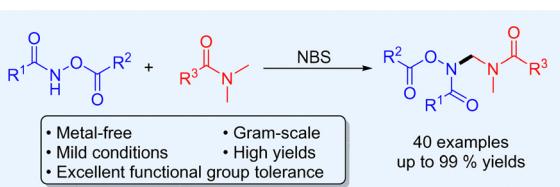
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Intracellular protein ligation and polyprotein synthesis using an asparaginyl endopeptidase core

Renming Liu, Jun Qiu, Yifen Huang, Ziyi Wang and Peng Zheng*

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NBS-mediated C(sp³)–H amidation of N,N-dimethylamides with N-acyloxyamides

Shuangqing Li, Xianru Xu, Guojuan Yin, Jianhui Chen, Yanshu Luo and Yuanzhi Xia*

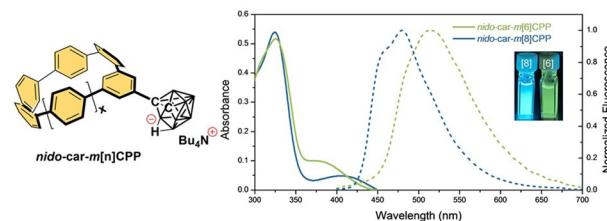


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***meta*-Cycloparaphenylenes (*m*CPPs) with pendant carborane**

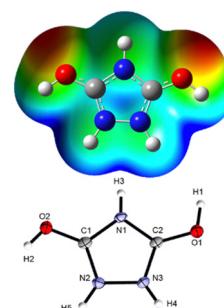
Pengfei Liu, Lingxiao He, Wei Shen, Siliang You, Zhiqiang Song, Bo Du, Sarfaraz Ahmed,* Hong Yan,* Ye Sha* and Xiang Li*



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Charge distribution and aromaticity in protonated urazole

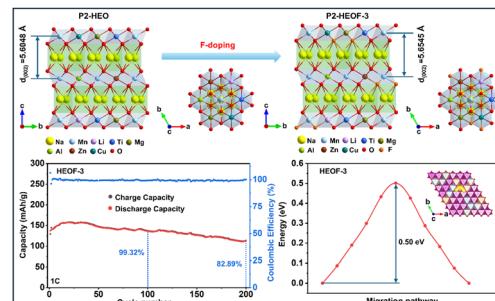
Alexander Nitzer,* Christoph Jessen and Andreas J. Kornath



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Synthesis of F-doped high-entropy layered oxide as cathode material towards high-performance Na-ion batteries

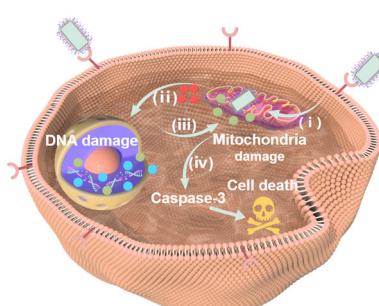
Minghui Cao,* Miao Cui, Yiping Gong, Zewei Guo, Shuangqing Le, Yangjinhua Wu, Chong Lin, Ke Li, Jingyang Tian* and Yi Qi*



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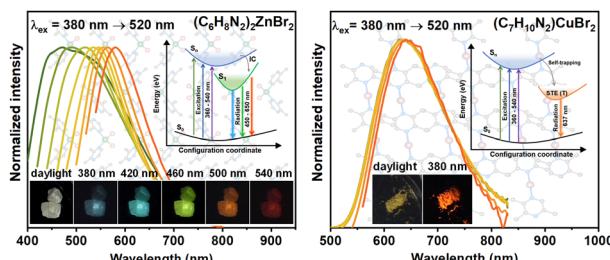
Nanocapsules with dual-targeting of cell and mitochondria functions for enhanced hypoxia-activated drug therapy

Fen Li, Ziyi Li, Jing Zhao, Qingqing Zhang, Mengting Wu and Yingshu Guo*



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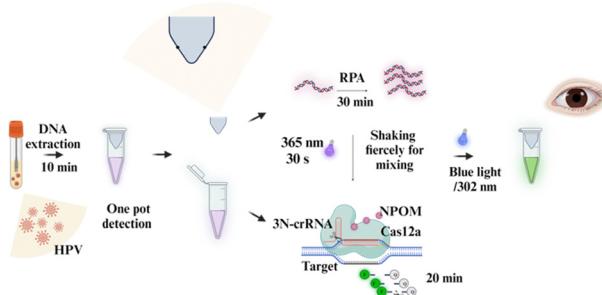
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Unveiling the photophysical mechanisms in low-dimensional Zn/Cu-based metal halides

Chuanyao Yang, Jia Zheng, Chang Xu, Chong Xiao, Yuanyuan Chang, Lei Zhou* and Xiangnan Gong*

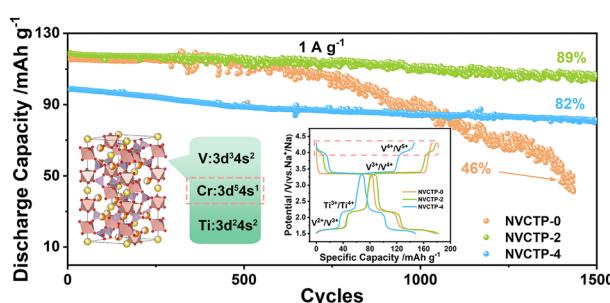
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Visual detection of HPV16 using a photoactivatable CRISPR–Cas12 system

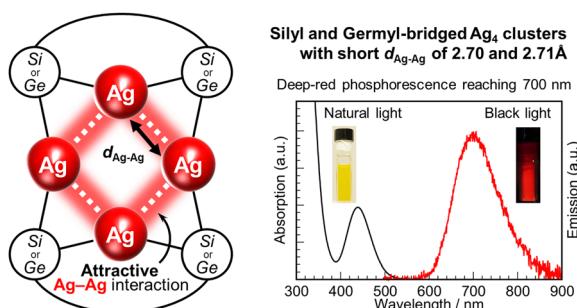
Xiaoya Gu, Zhe Ma, Lin Zhou, Na Li, Shijiang Yu, Fu Wang* and Ruifang An*

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Activating the high-potential V^{4+}/V^{5+} redox couple for an advanced NASICON sodium-ion cathode

Miaomiao Wang, Lin Zhu, Shuang Xiang, Xiaobing Huang, Huanhuan Li, Haiyan Wang, Yougen Tang and Dan Sun*

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Silyl- and germyl-bridged neutral square-planar Ag_4 clusters with short $\text{Ag}-\text{Ag}$ distances exhibiting red emission

Reon Ishii, Yoshimasa Wada* and Yusuke Sunada*

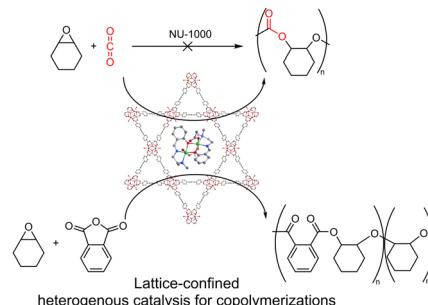


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Teaching copolymerization catalysis to metal–organic frameworks by confining molecular catalysts in lattices

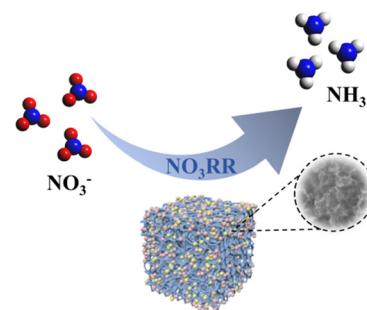
Chao-Yu Chiu, Chia-Her Lin, Pei-Wen Wu,
Zhuorigebatu Tegudeer, Chen-Yen Tsai* and
Wen-Yang Gao*



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Co-engineering of Fe–Mn nanoclusters with porous carbon for enhanced electrocatalytic ammonia synthesis

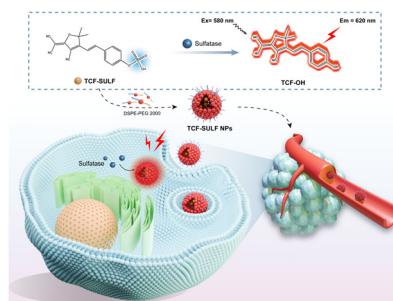
Youqing Wang, Lang Zhang, Caiyun Wang,*
Zhiwei Wang, Yanhong Feng* and Xijun Liu*



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A sensitive fluorescent nanoprobe for sulfatase detection and imaging in living cells and *in vivo*

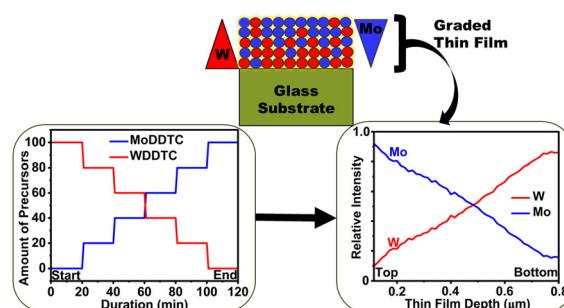
Huijia Liu, Jiaqi Zhang, Li Liu, Wenqing Li, Jing Yang* and Peng Wang*



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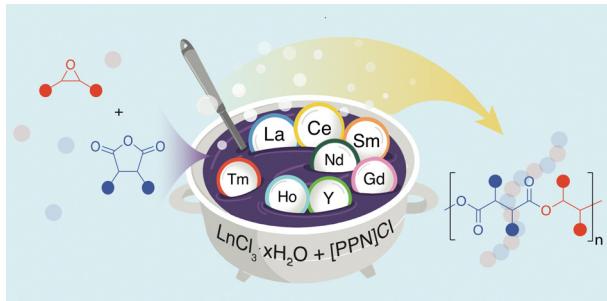
Gradient aerosol chemical vapor deposition (GA-CVD) for vertically graded thin films of $\text{Mo}_x\text{W}_{1-x}\text{S}_2$ and $\text{W}_x\text{Mo}_{1-x}\text{S}_2$

Abraham Barde, Huda Salam Al-Jurani,
Brendan Ward-O'Brien, Mark A. Buckingham,
Robert Cernik and David J. Lewis*



COMMUNICATIONS

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**Effects of Lewis acidity and size of lanthanide salts for ring-opening copolymerization**

Zachary A. Wood, Mrityunjay Giri, Harrison Min, Aren Ohanyan, Adrian Guerrero, Mikiyas K. Assefa and Megan E. Fieser*

CORRECTION

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Correction: Interstitial and substitutional doping of Mn²⁺ in 2D PEA₂PbBr₄ and BA₂PbBr₄ perovskites

Udara M. Kuruppu, Alvaro J. Magdaleno, Anuraj S. Kshirsagar, Bruno Donnadieu, Ferry Prins* and Mahesh K. Gangishetty*

