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ISSN 1359–7345 CODEN CHCOFS 61(41) 7345–7520 (2025)



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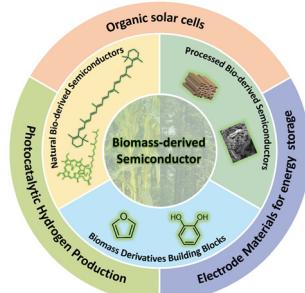
See XiaoYing Sun, Bo Li
et al., pp. 7368–7383.
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Chem. Commun.,
2025, 61, 7368.

HIGHLIGHT

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Biomass-derived semiconductors for renewable energy technologies

Siyu Ji, Shuyao Tian, Pengcheng Guan and Xu-Hui Jin*

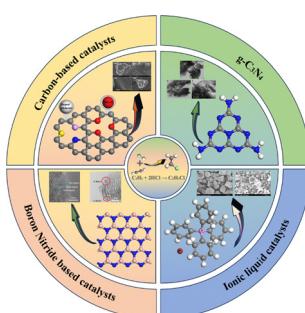


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Current status and perspective of metal-free materials as catalysts in acetylene hydrochlorination: active site, dopant, and mechanism

HuiJie Wang, LingLing Shang, BaiRan Wang,
XiaoYing Sun* and Bo Li*



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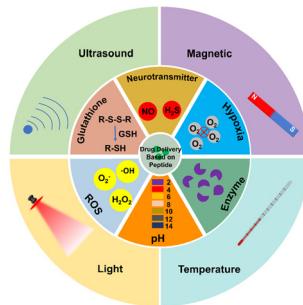


FEATURE ARTICLES

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Stimuli-responsive peptide-based nanodrug delivery systems for tumor therapy

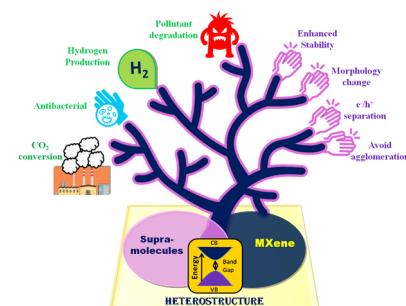
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 Zhi-Yu Xia, Si-Lin Chen, Dong-Bing Cheng,*
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Supramolecular structure@MXenes for photocatalytic applications – a review

Pankaj Verma, Jan H. van Maarseveen and
 N. Raveendran Shiju*

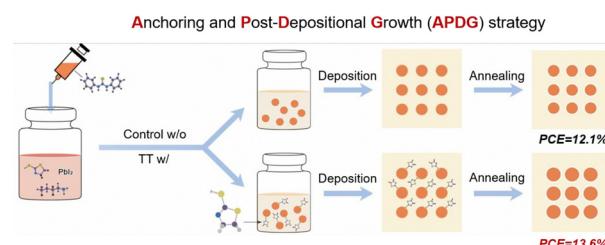


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Anchoring and post-depositional growth enables matrix manipulation of PbS QD inks and efficient solar cells

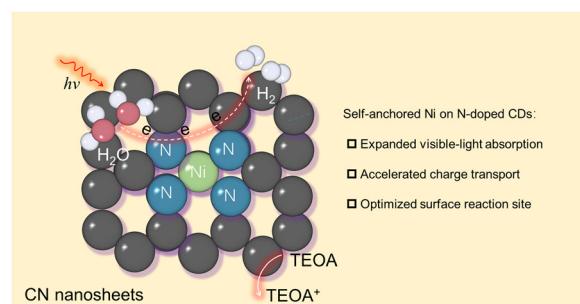
Haotian Gao, Leliang Song, Kunyuan Lu,* Qingda Chang,
 Haoyu Zhao, Xiaobo Ding, Qianqian Lin, Chuang Zhang,
 Zeke Liu* and Wanli Ma*



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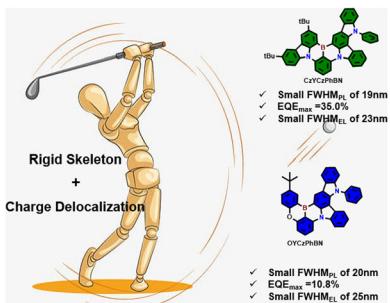
Self-anchored nickel cocatalyst on nitrogen-doped carbon dots for enhanced photocatalytic hydrogen evolution

Weiqin Yin, Ganghua Zhou, Xin Ning,* Xiaozhi Wang*
 and Xingwang Zhu*



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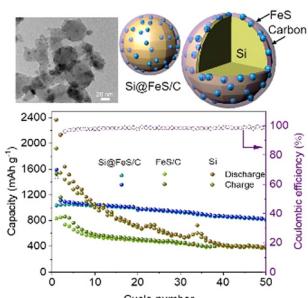
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Synergistic optimization of MR-TADF materials via a rigid skeleton and charge delocalization for enhanced photoluminescence and electroluminescence performance

Jun-Yi Wang, Hao-Ran Zheng, Xunwen Xiao* and Xu-Feng Luo*

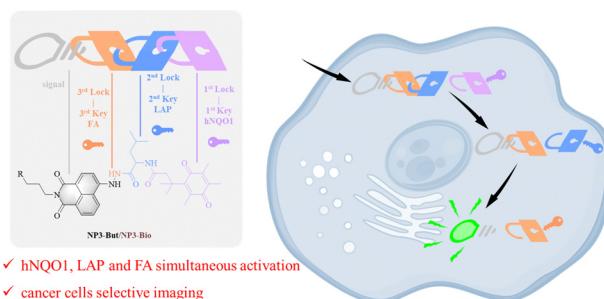
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Engineering iron sulfide/carbon co-coated silicon nanoparticles as a lithium-ion battery anode displaying stable capacity and rate-performance

Jinyun Liu,* Hui Zhang, Kehao Tao, Yajun Zhu, Shenglan Li, Yongmei Hua, Huizi Songtian, Tianli Han* and Jinjin Li*

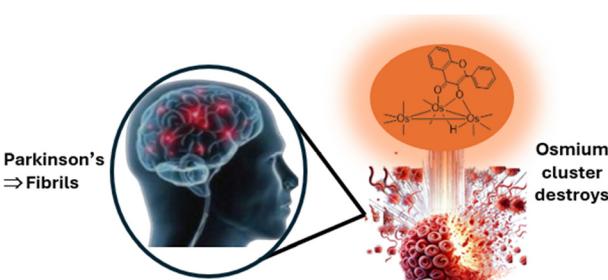
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Triple-locked fluorescent probes sequentially activated by hNQO1, LAP and FA: application in bioimaging of cancer cells

Langping Zhou, Han Chen, Weibing Zhang* and Junhong Qian*

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A triosmium carbonyl cluster that inhibits α -synuclein aggregation and disassembles preformed aggregates

Xin Liang, Balasz Gulyas, Mathangi Palanivel and Weng Kee Leong*

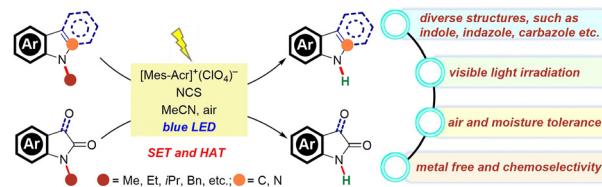


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Visible-light-induced acridinium-catalyzed selective *N*-dealkylation of N-heterocycles

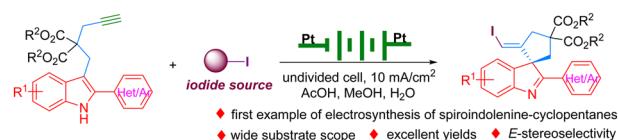
Shanshan Liu,* Yaoyao Zhang, Xianying Zhou and Lin-Yu Jiao*



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Electrochemical reaction of indole-tethered alkynes enabling stereoselective synthesis of iodo vinyl spiroindolenine-cyclopentanes

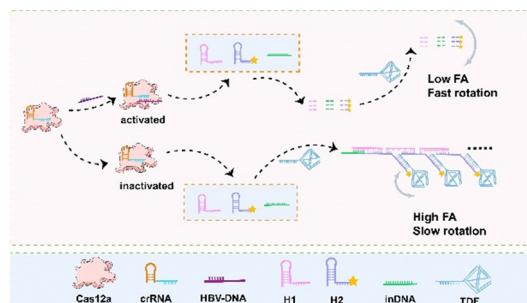
Jingrui He, Xinrui Zhou, Haibo Mei,* Ata Makarem, Ramin Javahershenas, Vadim A. Soloshonok and Jianlin Han*



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A novel CRISPR–Cas12a-based fluorescence anisotropy method with a high signal-to-background ratio for sensitive biosensing

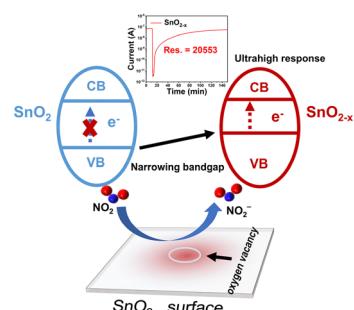
Yu Qin, Jia Li Xie, Kai Mao, Yuan Fang Li, Cheng Zhi Huang, Hong Yan Zou* and Shu Jun Zhen*



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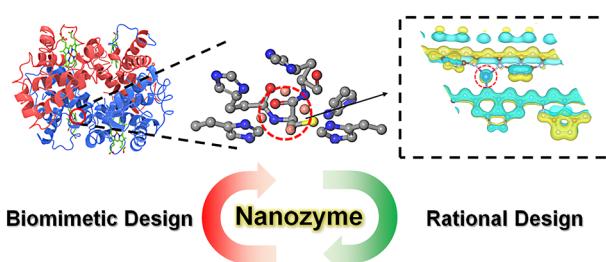
Enriched oxygen vacancies in SnO_{2-x} with narrow bandgap for highly sensitive gas sensing

Pei-Xuan Wu, Bo-Jing Ruan, Ke-Feng Li, Wei-Hua Deng,* Yong-Jun Chen* and Gang Xu



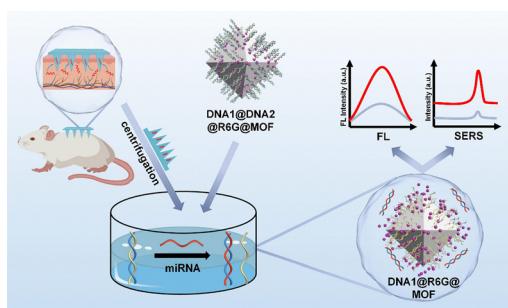
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**Bioinspired single-atom nanozymes for microplastic degradation**

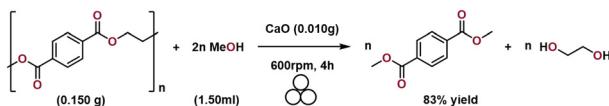
Yonghui Gao, Bin Pan, Yimeng Wang and Zhiling Zhu*

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***In situ* enrichment and ultrasensitive analysis of interstitial fluid miRNA enabled by hydrogel microneedles coupled with DNA-gated metal–organic frameworks**

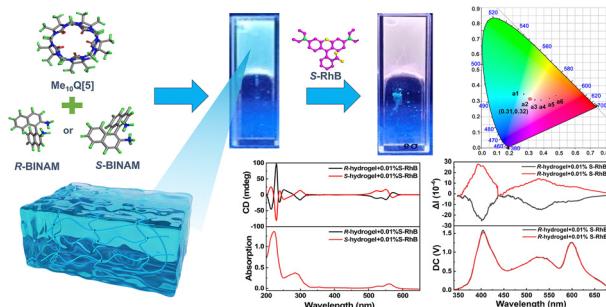
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**Circularly polarized luminescence from decamethylcucurbit[5]uril-triggered chiral supramolecular hydrogels**

Bing An, Qingmei Ge, Hang Cong* and Ruihan Gao*



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Synthesis of 1*H*-isothiochromenes by regioselective C–C and C–S bond formation of enaminothiones with alkynes under rhodium catalysis

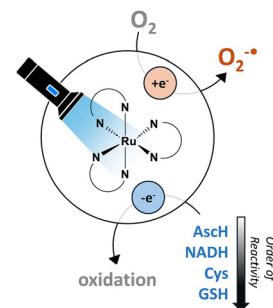
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Photocatalytic oxidation of biologically relevant reducing agents by $[\text{Ru}(\text{bpy})_3](\text{PF}_6)_2$

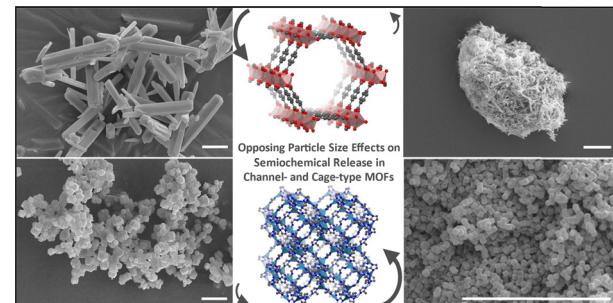
Iman Doumi, Daniella Al Othman, Shao-An Hua, Vincent Lebrun, Franc Meyer and Peter Faller*



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Particle size effects on vapour uptake and release dynamics in metal–organic frameworks

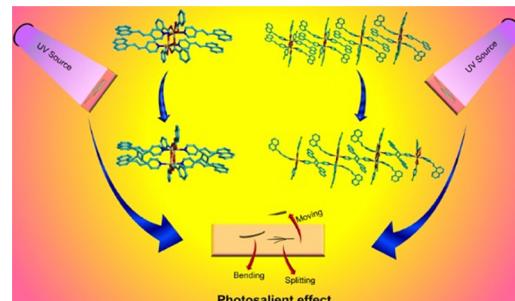
Joshua Nicks,* Cosmin Mudure, Jordan James, Alexander McDougall, William O. H. Hughes, John Spencer, Tina Düren and Andrew D. Burrows*



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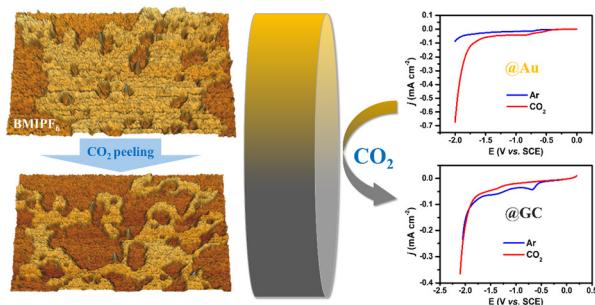
Light-driven structural transformations in isotypal Cd(II) complexes: stereoselectivity and photosalient motion

Uma Kurakula, Sanobar Naaz, Sourav Roy, Samim Khan, Abdul Malik Puthan Peedikakkal,* Raghavender Medishetty* and Mohammad Hidayetullah Mir*



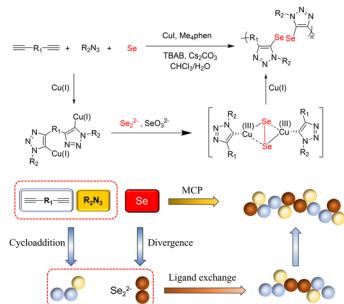
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**Unveiling the CO₂ electrocatalytic mechanism in ionic liquids via real-time AFM and voltammetry**

Kaixuan Li, Shuai Liu, Ting Wang, Bingwei Mao* and Jiawei Yan*

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**Copper-catalyzed multicomponent polymerization of elemental selenium for regioselective synthesis of poly(5-diselenide-triazole)s**

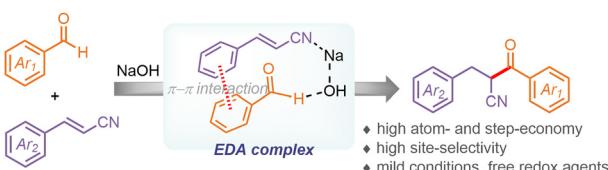
Yangyang Yue, Chen Qu, Nan Zheng, Yubin Zheng* and Wangze Song*

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**Direct hydroacylation of arylacrylonitriles toward β -ketonitriles assisted by an EDA complex**

Zhenhui Wang, Shiqing Huang, Hao Hou, Wei Liu* and Wei Ou*



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Electrocatalytic reduction of carbon dioxide using Cu-based ecocatalysts

Hong Phong Duong, Ngoc-Huan Tran,
Pierre-Alexandre Deyris, Yves-Marie Legrand,
Peter Hesemann, Claude Grison, Claire M. Grison* and
Marc Fontecave*

