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Inside cover

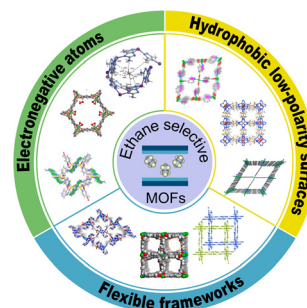
See Atsushi Kondo *et al.*, pp. 152–155. Image reproduced by permission of Atsushi Kondo from *Chem. Commun.*, 2026, 62, 152.

HIGHLIGHTS

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Ethane-selective metal–organic frameworks for one-step purification of ethylene

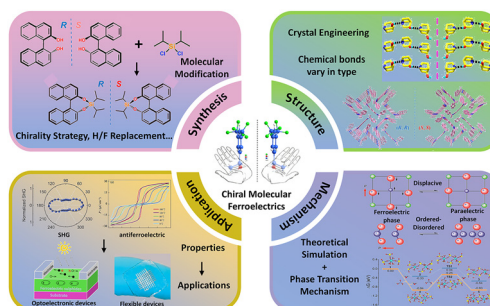
Chunpu Duan, Rundao Chen,* Jiaqi Li, Fang Zheng, Zhiguo Zhang, Qiwei Yang, Qilong Ren and Zongbi Bao*



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Progress in chiral organic ferroelectrics

Yipeng Zang, Bolin Feng and Xiaoqing Gao*



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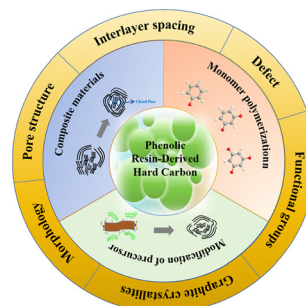
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HIGHLIGHTS

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Phenolic resin-derived hard carbon for sodium-ion batteries: insights and prospects

Zeyu Zhu, Jinlin Pan, Binghao Wu, Qiang Li, Weixiang Li,* Jingui Duan* and Ya-Xia Yin*

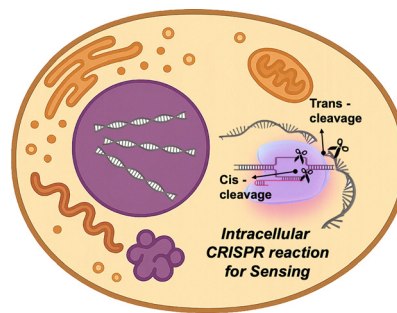


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Intracellular biosensors by functional nanomaterial-integrated CRISPR technologies for real-time molecular sensing

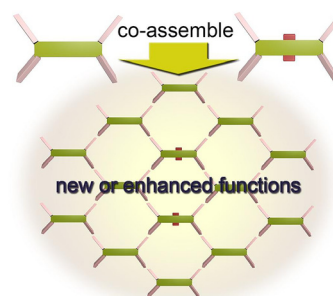
Min Yu Choi, Chenzhong Li, Jin-Ha Choi* and Jeong-Woo Choi*



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Recent advances in non-stoichiometric multicomponent hydrogen-bonded organic frameworks

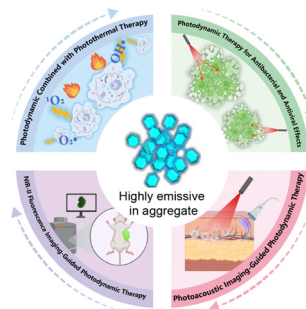
He Zhao, Baiyang Fan, Guiyan Liu, Xingliang Liu and Pengchong Xue*



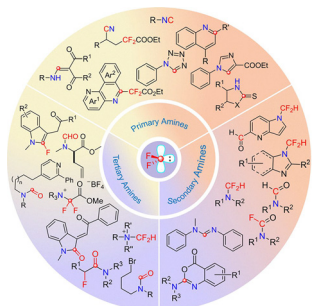
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Frontiers in photodynamic therapy: type I NIR-II photosensitizers with aggregation-induced emission features

Ye Tong, Xue Li,* Dong Wang* and Ben Zhong Tang*



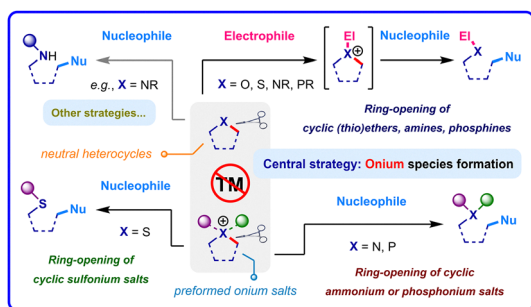
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Multifaceted reactions of difluorocarbene with amines: synthesis and mechanistic insights

Jinghan Bu, Xuanwen Tao, Mengyi Huang, Zixin Chen, Tao Zhao and Qiang Yang*

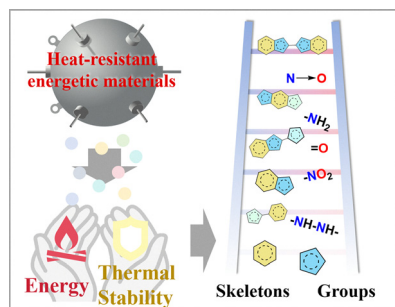
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Recent advances in transition-metal-free deconstructive functionalization of saturated N-, O-, P-, and S-heterocycles

Pengcheng Li,* Jia-Lin Tu and Binbin Huang*

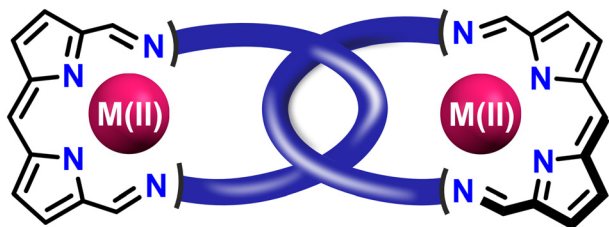
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Balancing energy and thermal stability: a review of advanced heat-resistant energetic materials

Boqian Yang, Honglei Xia,* Mingjing Tang, Xiujuan Qi,* Siwei Song, Yi Wang and Qinghua Zhang*

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Mechanically interlocked porphyrinoids: self-assembly of metal-stabilised catenaphyrins

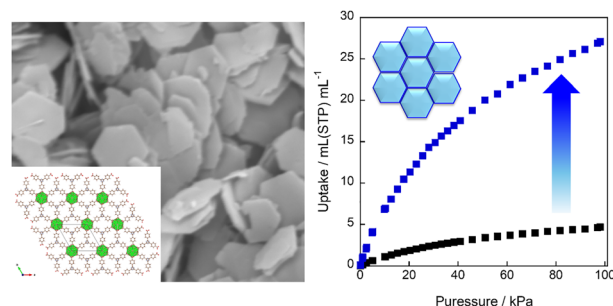
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Enhancement of volumetric adsorption capacities on a 2D layered MOF by controlling crystal morphology

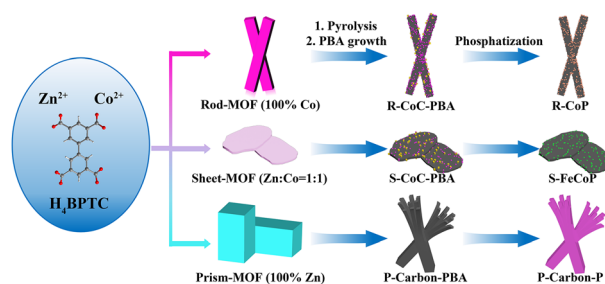
Yuna Kawanami, Wataru Nakanishi and Atsushi Kondo*



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Engineering hierarchical porous carbon-supported Fe-doped cobalt phosphides from MOF templates for alkaline water oxidation

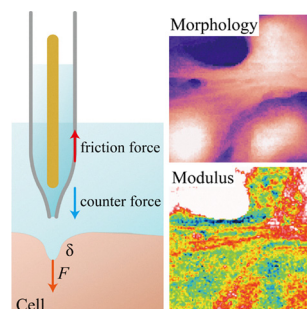
Linchao Xu, Junliang Chen, Qipeng Li* and Jinjie Qian*



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Non-contact electrochemical imaging of Young's modulus of single living cells

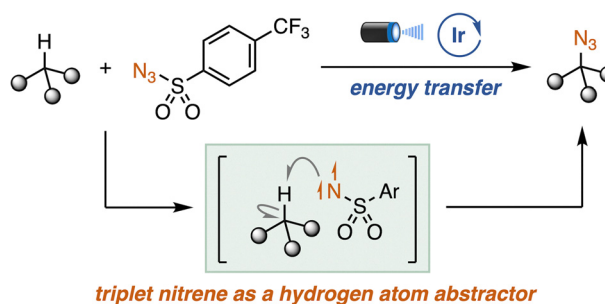
Rong Jin, Yanyan Xu, Kang Wang, Dechen Jiang* and Danjun Fang*



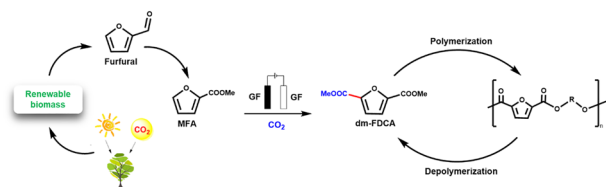
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Triplet nitrene-mediated photocatalytic azidation of tertiary C(sp³)-H bonds

Noriaki Shimamoto, Norihito Arichi* and Hiroaki Ohno*



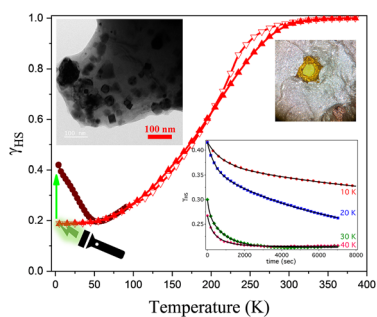
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Electrochemical upcycling biomass-derived methyl 2-furoate and CO₂ into monomers for recyclable polyesters

Pengfei Shi, Xinyu Chai, Yuefeng Wang, Chenbao Lu,*
Huiping Ji,* Yuezeng Su* and Xiaodong Zhuang*

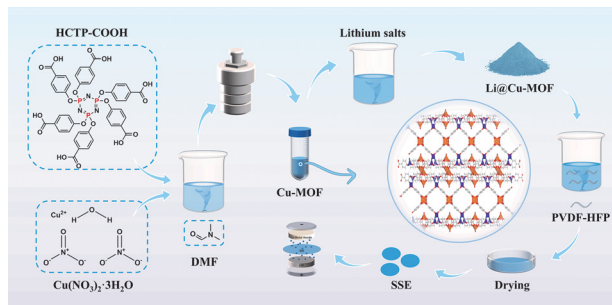
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Remarkable impact of KBr pelletization on spin switching: probing Hofmann-type 3D spin-crossover frameworks by solid-state optical spectroscopy

Chinmoy Das and Pradip Chakraborty*

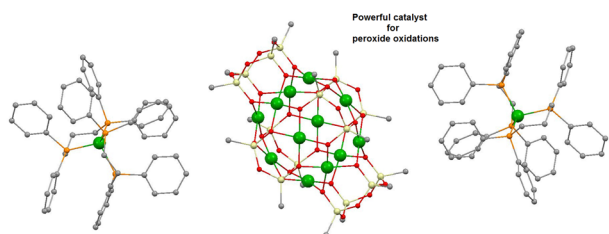
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Anion-mediated regulation of open metal sites in metal–organic framework materials or high-performance solid-state electrolytes

Pucheng Zhao, Yanyan Xu, Mingjie Liu, Tengfei Liu,
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High-nuclearity Cu₁₄ ionic complex featuring 1,3-bis(diphenylphosphino)propane and methylsilsesquioxane ligands: highly efficient catalysis of mild peroxidative alkane functionalizations

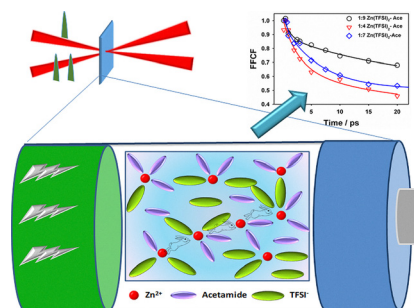
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Ultrafast Zn²⁺ solvation dynamics unmask a hopping mechanism in eutectic battery electrolytes

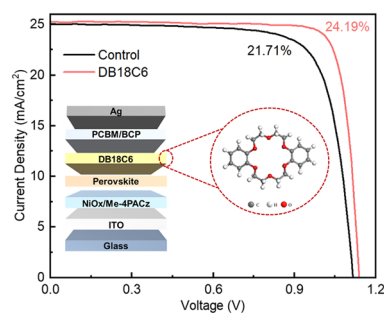
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Crown ether-based interface modification for inverted perovskite solar cells with enhanced efficiency and stability

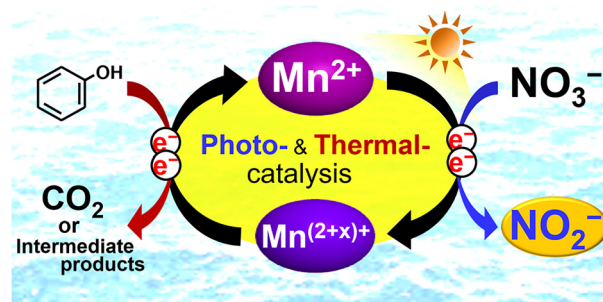
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Photo- and thermal catalysis of nitrate to nitrite by manganese ions under light up to 600 nm

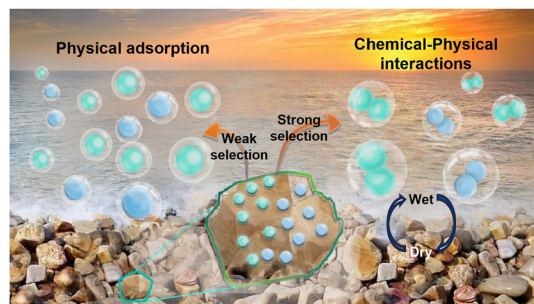
Kojiro Fuku,* Naohide Tsuji and Ryosuke Ueda



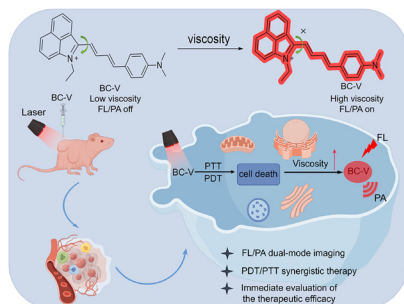
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Chiral amplification of prebiotic peptide synthesis induced by chemical–physical interactions on calcite surfaces

Shichao Yu, Xiangxiao Zheng, Xiaofan Guo, Li Zhang, Yufen Zhao and Jianxi Ying*



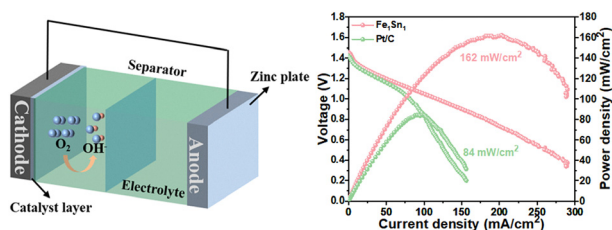
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A dual-mode viscosity-activatable probe for the immediate evaluation of photodynamic/photothermal therapy efficacy

Ao-Xiang Fu, Li Li, Qin-Ting Liao, Chu-Yu-Hui Peng, Ning Yang, Guo-Jiang Mao, Juan Ouyang, Liufang Hu, Fen Xu* and Chun-Yan Li*

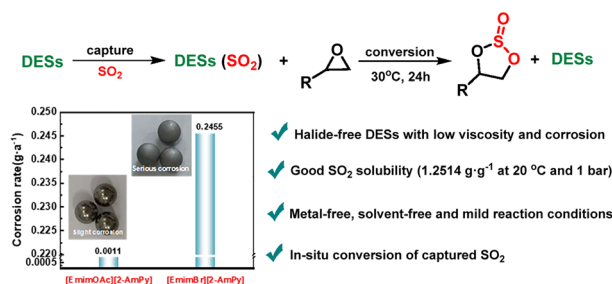
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Metal-organic-framework-derived Fe/Sn bimetallic electrocatalyst for efficient oxygen reduction reaction in rechargeable zinc-air batteries

Benchi Zhang, Yunjiao Yang, Guangyang Lan, Wenchang Wang, Zhidong Chen* and Changhai Liu*

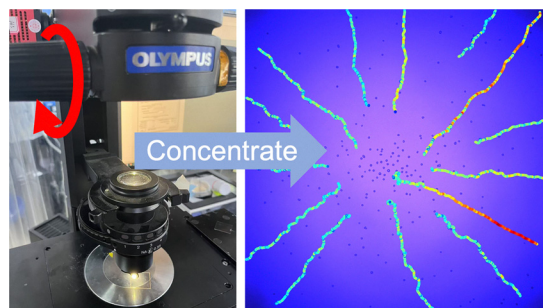
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Halide-free deep eutectic solvents with low viscosity and corrosion for efficient SO₂ capture and conversion under environmental conditions

Tao Yang and Tianxiang Zhao*

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Radial illumination enables the concentration, dispersion, lateral transport, and sorting of photocatalytic TiO₂ microspheres

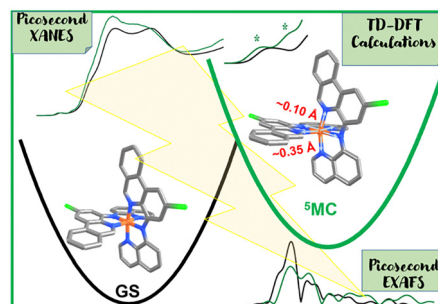
Ruijun Lin, Lingshan Fu, Fengyi Yang, Kai Lou* and Wei Wang*



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Excited-state structural conformations of Fe-amido photosensitizers revealed by picosecond X-ray absorption spectroscopy

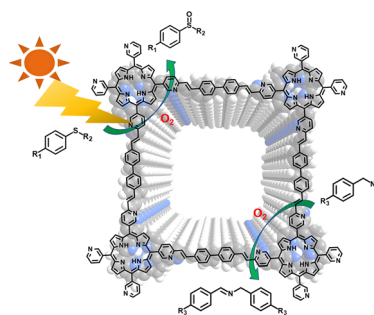
Maxime Sauvan, Asterios Charisiadis, Lucia Velasco, Ana Martinez, Issiah B. Lozada, Xiaoyi Zhang, David E. Herbert* and Dooshaye Moonshiram*



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A vinylene-linked porphyrin covalent organic framework for efficient sunlight-driven photocatalytic organic transformations

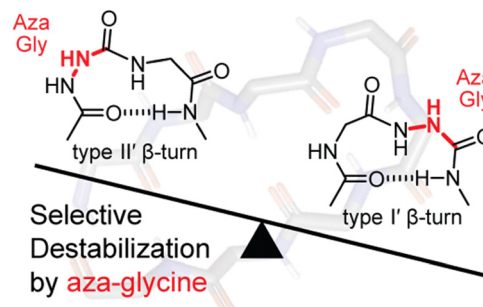
Xiao-Meng Zhang, Jing-Lan Kan, Ying Dong, Fan Yang,* Qi-Kui Liu* and Cheng Liu*



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Backbone nitrogen substitution restricts the conformation of glycine residues in β -turns

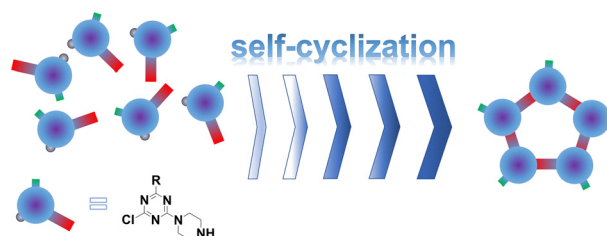
Fengyi Gu, Diana Thomas and Robert W. Newberry*



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One-pot synthesis of novel triazine/piperazine-based macrocycles and investigation of their porous properties

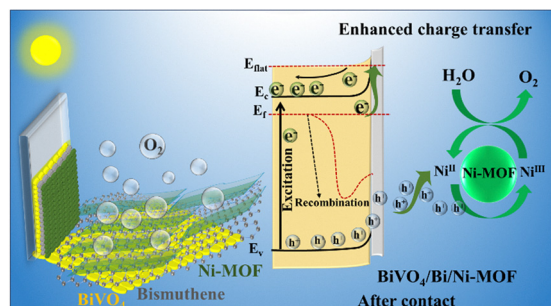
Ho-Yin Lai, Yao-Chih Lu, Hsiang-Jen Cheng, Hsiu-Fu Hsu* and Long-Li Lai*



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Interlayer bismuthene as a charge-transporter improves the photoelectrochemical water oxidation activity of a bismuth vanadate metal–organic framework

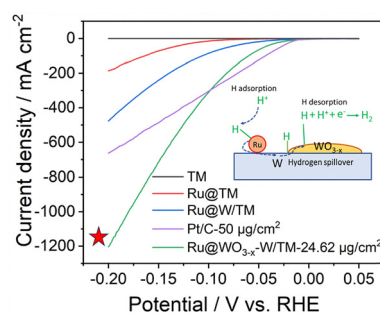
Deepak Kumar, Sagnik Mukherjee and Arindam Indra*



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Construction of a Ru@WO_{3-x}-W catalyst with hydrogen spillover effect toward ampere-level hydrogen evolution in acidic solution

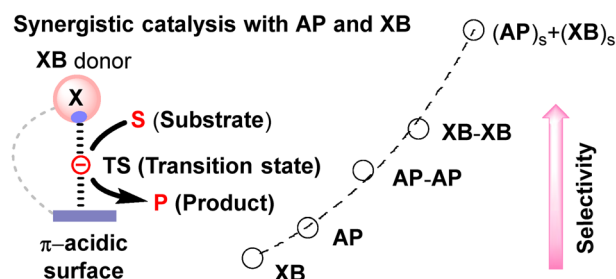
Hailin Ye, Yuefei Xin, Zhengjie Zhang, Shichun Cheng, Ruyi Zhang, Mingming Wang, Yuchan Zhu* and Zhandong Ren*



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Anion- π catalysis with halogen bonding

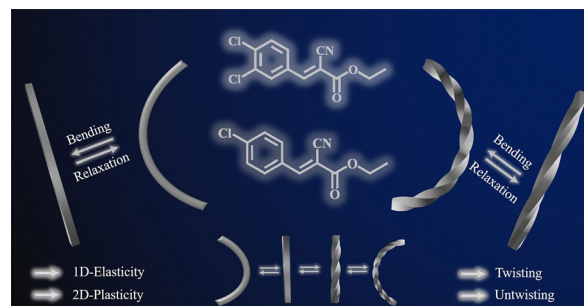
Bingqian Shi, Qianmu Xu, Kaiyang Fan, Jie Zhang, Hongling Wang and Xiang Zhang*



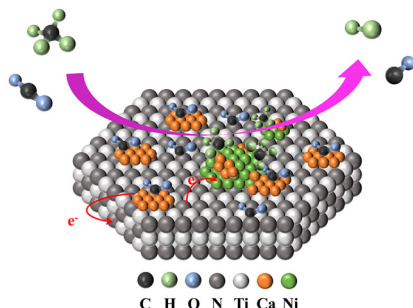
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Reversible twisting-induced crystalline–polycrystalline transformation in cyanoacrylate crystals

Thiyagaraj Parthasarathy, Aritra Bhowmik, Biswajit Bhattacharya, Manish Kumar Mishra* and Soumyajit Ghosh*



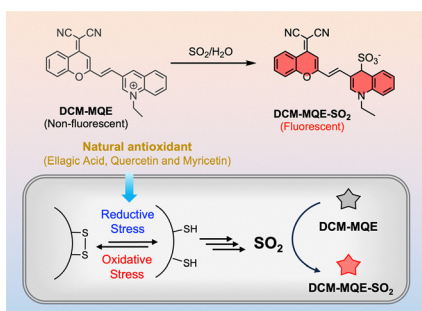
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Boosting methane dry reforming via enhanced CO₂ adsorption over TiN-supported Ni catalysts

Zhuoshi Zheng, Yu Zhang, Yanxi Zhao,* Chengchao Liu, Aihua Lin, Yuhua Zhang and Jinlin Li*

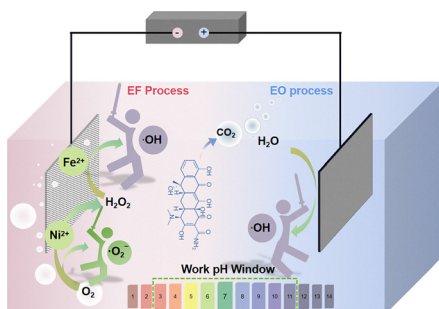
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A fluorescent probe for sulfur dioxide reveals intracellular reductive stress triggered by natural antioxidants

Sijie Luo, Lie Xiang, Huihong Liu, Yanyan Luo, Lei Shi,* Guhuan Liu* and Sheng Yang*

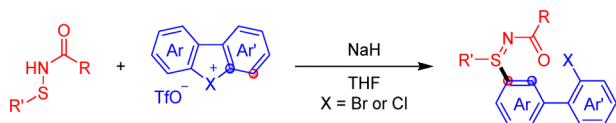
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Electro-synergy for the degradation of refractory organic pollutants: coupling heterogeneous electro-Fenton and electro-oxidation

Yuhui Cai, Hao Liu, Jingru Shu, Yuntai Lin and Rui Yang*

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- ◇ 36 examples, up to 99% yield
- ◇ excellent *meta*-selective arylation
- ◇ Ambient conditions and simple operations
- ◇ High efficiency and applicability

Regioselective functionalization of sulfenamides: S-arylation with cyclic diaryl λ^3 -bromanes and λ^3 -chloranes

Jiahong Chen, Yuanyuan Huang, Nan Wang, Mengke Wang,* Weichun Huang, Xinxing Wu, Xiaoping Xu* and You Zi*

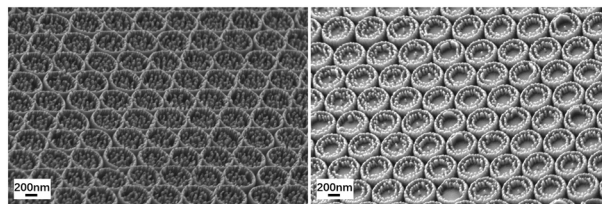


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Fabrication of a nanowire array surrounded by hexagonally ordered cylindrical walls and structure-enhanced SERS performance

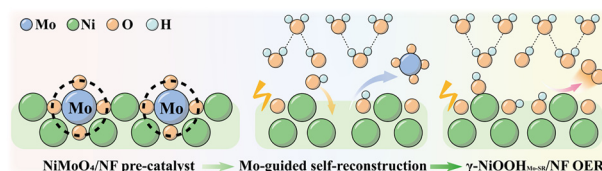
Shengjun Liu, Jizhe Song, Sujuan Feng,* Jiacheng Li, Xiaolong Wang, Xinyue Wang, Dejun Jiang and Guangqiang Liu*



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A Mo-guided self-reconstructed highly active NiOOH catalyst for a durable alkaline oxygen evolution reaction

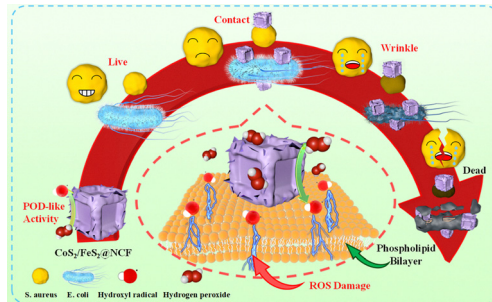
Huihui Zhi, Zhibei Liao, Hao Jiang, Yuan He, Zhanwei Chen, Shaowei Yang* and Hepeng Zhang*



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Coupling calcination with sulfidation strategy to fabricate a hydrophilic bimetallic transition nanozyme for boosting antibacterial efficiency

Tian-shuo Wang, Yu-hang Lin, Lian-xi Pu, Yin-min Min, Min Zhang, De-ping Wang, Li-jun Ding* and Kun Wang*



CORRECTION

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Correction: Inversion of circularly polarized luminescence in chiral PIM membranes via co-assembly with achiral perovskite quantum dots

Cong Yu, Wanshuang Zhou, Zhuang Liu, Qiang Chen, Shi-Peng Sun, Lingyan Feng* and Xinbo Wang*

