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Cover

See Dawid Zych and Aneta Slodek, pp. 10404–10407. Image reproduced by permission of Dawid Zych from *Chem. Commun.*, 2026, 62, 10404.

PROFILE

10270

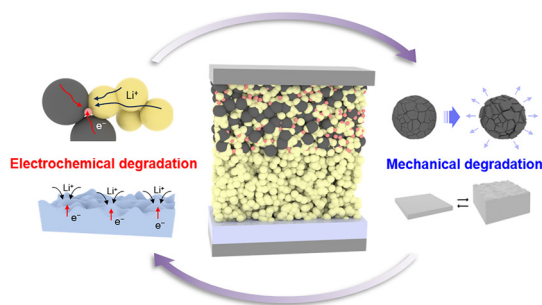
Contributors to the Emerging Investigators collection 2026: Part 1

FEATURE ARTICLES

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Intertwined nature of electrochemical reactions and mechanical instability in sulfide-based all-solid-state batteries

Junhee Kang, Hong Rim Shin, Yeokyung Lee and Jong-Won Lee*



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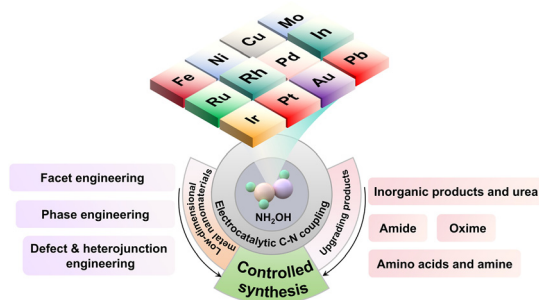


FEATURE ARTICLES

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Electrocatalytic nitrate valorization via C–N coupling on low-dimensional metal nanomaterials for pollution remediation and valuable product synthesis

Zikang Xu, Yunhao Wang, Fu Liu, Fengkun Hao, Xiang Meng, Liang Guo, Mingzheng Shao, Chaohui Wang, Rundong Zhao, Hanxiao Du and Zhanxi Fan*

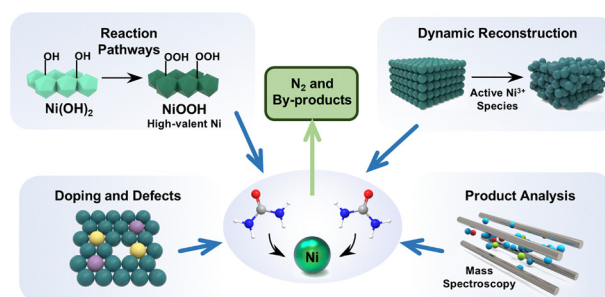


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Revealing the reaction pathways and interfacial regulation mechanisms of urea electro-oxidation on nickel-based catalysts

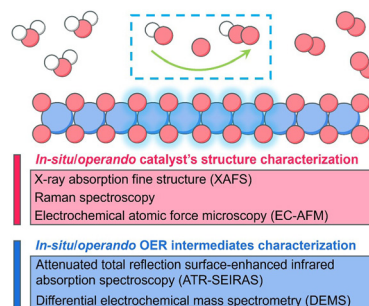
Riyi Zhang, Yong Yan,* Zhihao Yi* and Dong Wang*



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Recent progress in advanced *in situ/operando* characterization techniques for the oxygen evolution reaction

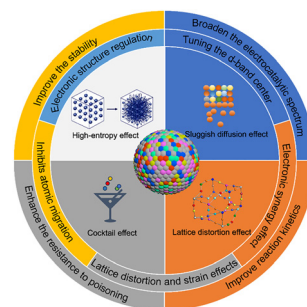
Ying Zhang, Minhui Wang, Peiyu Ma,* Song Sun* and Jun Bao*



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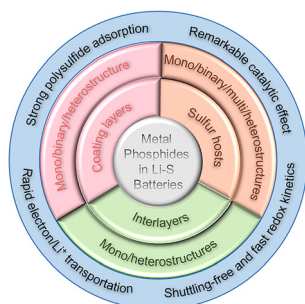
Platinum-based high-entropy alloys for electrocatalysis: preparation, applications and prospects

Yehao Li, Zhuyin Sui,* Jinghe Zheng, Hongzhi Cui,* Zhenhua Yan, Kun Jiang* and Leigang Li*



REVIEWS

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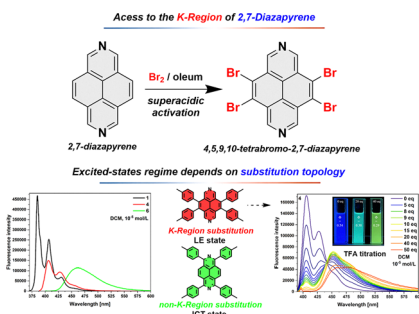


Review of metal phosphides as electrocatalysts for accelerating sulfur redox reactions in lithium–sulfur batteries

Guobing Tang, Tongtong Yuan, Liangyu Bi, Yanmei Li,*
Zhaoyang Wu* and Lianbo Ma*

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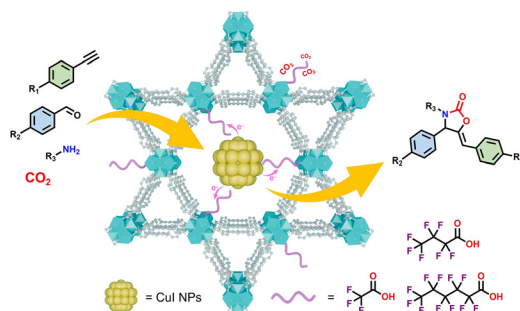
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Selective K-region bromination unlocks 2,7-diazapyrene functionalization

Dawid Zych* and Aneta Slodek

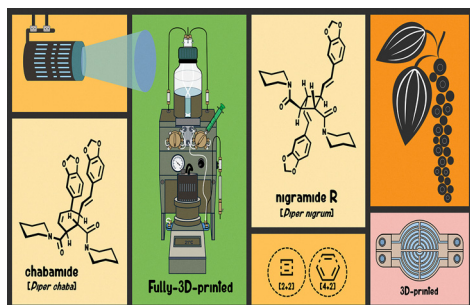
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Fluorinated Zr-MOF supported Cu(I) for synergistic four-component CO₂ reactions

Jia Zhang, Shuangfeng Yang, Ruiqi Li,* Yaqi Li,
Shiyuan Wei, Jianhui Zhu, Jiawei Li,* Jianhan Huang*
and Shengze Yu

10413



Unified, catalyst-controlled, bioinspired total synthesis of dimeric piperine alkaloids in batch and flow

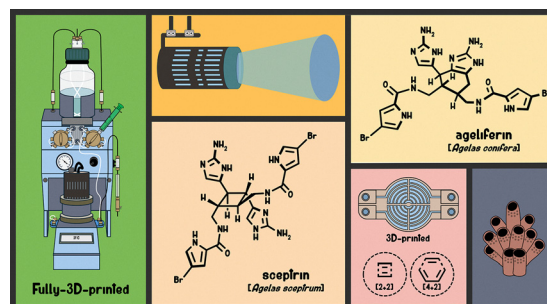
Mohammed Latrache, Amina Sesay, Samuel Oger,
Mireia Benito Montaner, Jinlei Zhang, Mohamed Mellah,
Erwan Poupon, Stephen T. Hilton, Stellios Arseniyadis
and Laurent Evanno*



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Bioinspired total synthesis of (dibromo)sceptrin and (dibromo)ageliferin

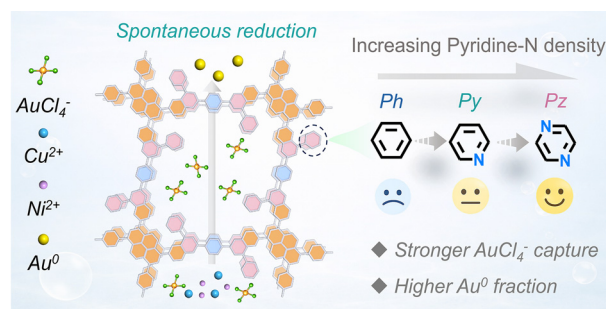
Mohammed Latrache, Amina Sesay, Samuel Oger, Mireia Benito Montaner, Mohamed Mellah, Erwan Poupon, Stephen T. Hilton, Stellios Arseniyadis and Laurent Evanno*



10423

Pore-wall pyridine-N density regulation in covalent organic frameworks for enhanced gold capture

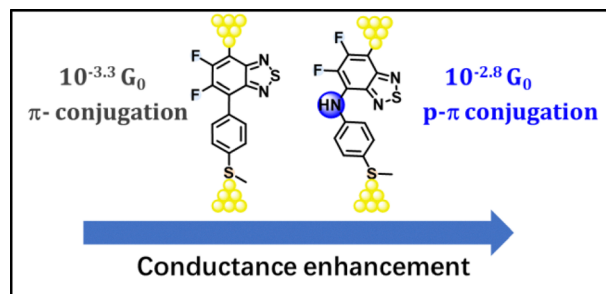
Jun Cao, Meng Li, Hao Wang, Shiyuan Wei, Ruoyan Li, Jinping Xiahou, Jianhan Huang,* Jiawei Li* and You-Nian Liu



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Enhancing conductance in single-molecule junctions through nitrogen bridge-mediated p- π conjugation

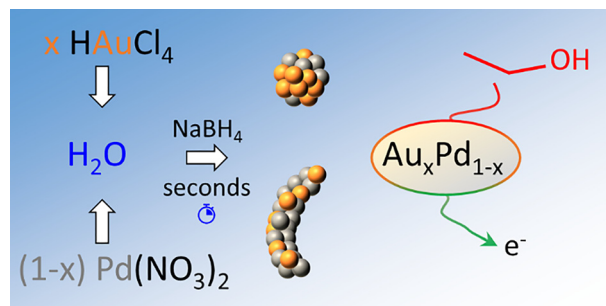
Yin Zhao, Wenlong Liu, Yunpeng Li, Rui Wang, Jiawei Yang and Hongxiang Li*



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Surfactant-free $NaBH_4$ -mediated synthesis of Au_xPd_{1-x} nano-alloys for active electrocatalysts

Kristian Junker Andersen, Armin Asghari Alamdari, Aleksandra Smolska, Nina Lock, Anders Bentien and Jonathan Quinson*



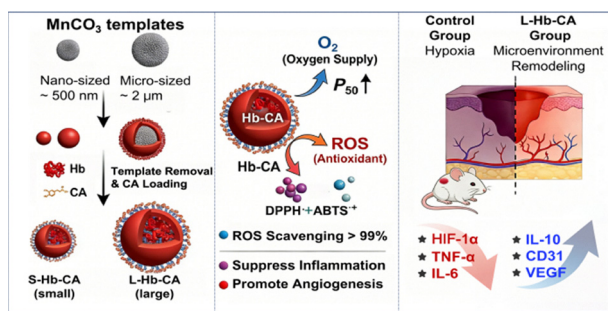
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Linker-curvature stabilized Zn-rod framework with inverted C2 hydrocarbon adsorption

Xuan Han, Wei Wang, Jinli Zhu,* Jin Wang* and Mingxing Zhang*

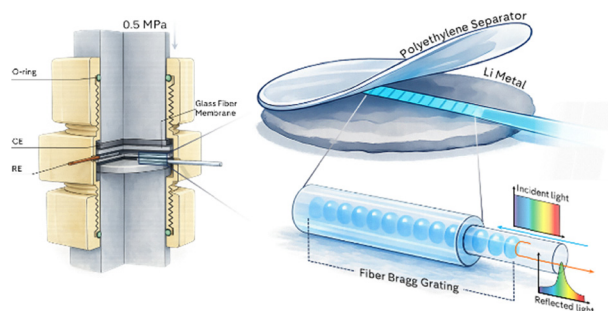
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Size-tunable hemoglobin oxygen carriers with antioxidant and pro-angiogenic functions for wound healing

Yu Zhang, Honglei Zhu, Qinqi Wang, Leijiao Li,* Liana Shestakova, Youry Ostrovsky, Xincui Shi, Yuan Cui* and Wenliang Li*

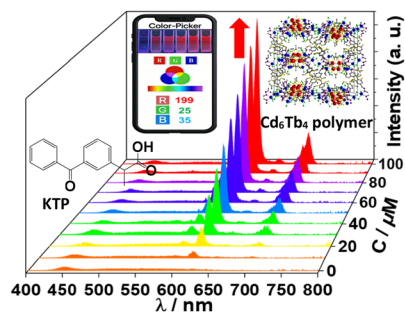
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Study of stress evolution on lithium metal anodes via fiber Bragg grating sensing technology

Peng Wang, Yichong Chen, Aoyuan Chen, Xin Wu, Sixie Yang* and Ping He

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Construction of a Cd₆Eu₄-containing coordination polymer for luminescence detection of ketoprofen as an anti-inflammatory drug

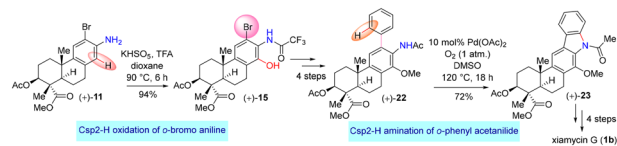
Jinshuai Song, Shuhan Zhang, Shi-Qing Wang,* Desmond Schipper and Xiaoping Yang*



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Total synthesis of (+)-xiamycin G via acetanilide-assisted two-fold Csp²-H functionalization

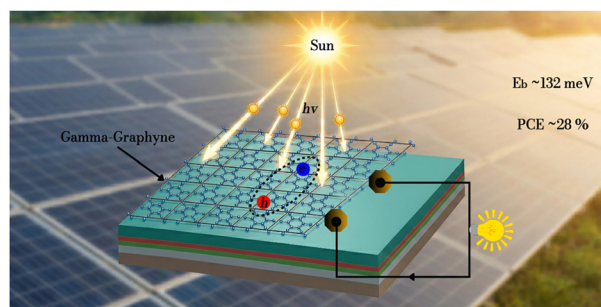
Rhituparna Nandi, Souvik Biswas, Sreyashi Sadhukhan, Apurba Das and Alakesh Bisai*



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Excitons and solar-harvesting potential of γ -graphyne

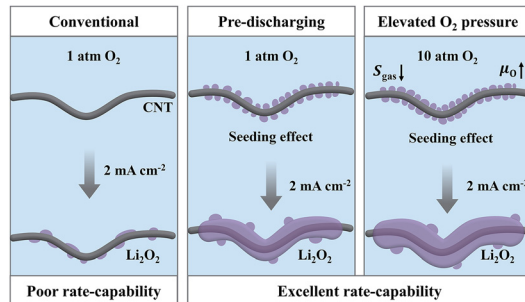
Bill D. Aparicio Huacarpuma,* Alysson M. Almeida Silva, Santosh K. Tiwari, Alexandre C. Dias and Luiz A. Ribeiro Jr



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A seeding strategy enables catalyst-free high-rate lithium–oxygen batteries

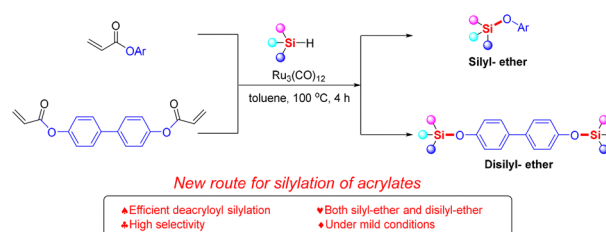
Rongze Sun, Wenjie Niu, Ning Zhao,* Pengfei Yu* and Xiangxin Guo*



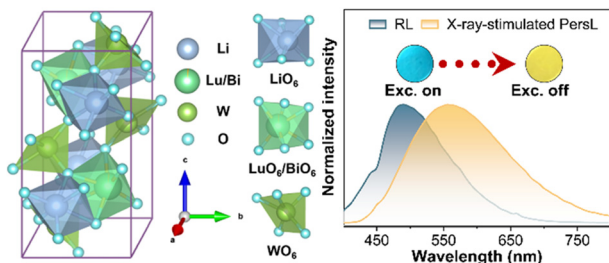
10468

Ruthenium catalyzed selective deacryloyl silylation of aromatic acrylates

Ping Li, Jiawang Ye, Ruxin Jin, Fanghua Cai, Haiyi Feng and Bin Li*



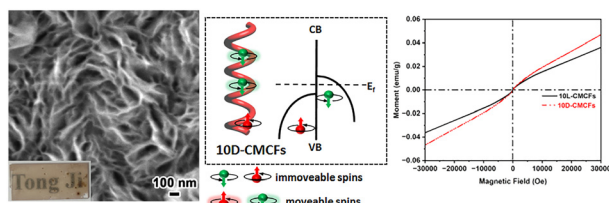
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Spectral decoupling between radioluminescence and persistent luminescence in Bi³⁺-doped LiLu(WO₄)₂ for high-security information encryption

Xiaofeng Lin, Rongyi Kuang, Huiwang Lian, Ningyi Li, Yurii Orlovskii, Victor Loschenov, Vladimir Makhov, Bo-Mei Liu,* Rui Zou* and Jing Wang*

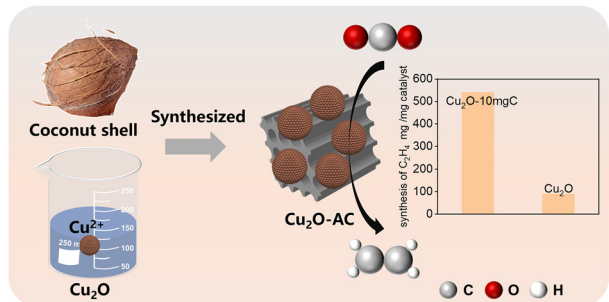
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Chirality-tuned magnetic susceptibility of chiral mesostructured cobalt oxide films

Liuliu He, Wenjun Zhu, Yang Gao, Quanzheng Deng and Yingying Duan*

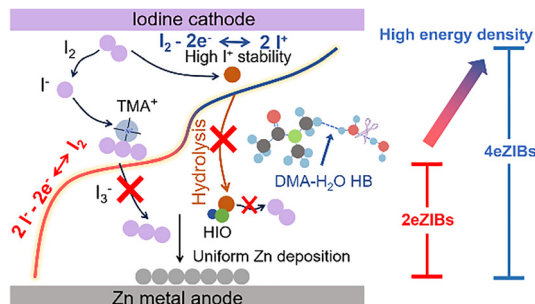
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Boosting CO₂-to-C₂H₄ electrocatalysis on Cu₂O with waste-derived porous carbon from coconut shells

Chen Qin, TangRui Li, Gevindu Masakorala, ChengJie Zhi, HongXiang Huang, Chen Zhou, Xue Wang, Bo Shen, Jian-Rong Zhang, Yang Zhou,* Charitha Thambiliyagodage* and Wenlei Zhu*

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Tailoring solvation chemistry towards concurrent hydrolysis-free I⁻/I⁺ redox and reversible Zn anode in Zn-I₂ batteries

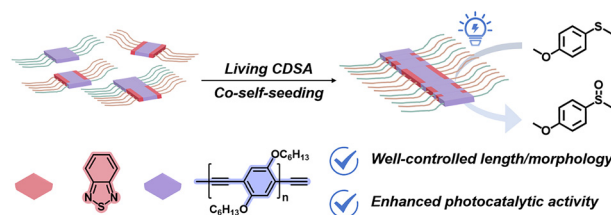
Zhihao Zhao, Fanglin Wu, Huihua Li and Huang Zhang*



10491

Crystallization-driven co-self-seeding strategy toward controlled preparation of heterojunction nanofibers

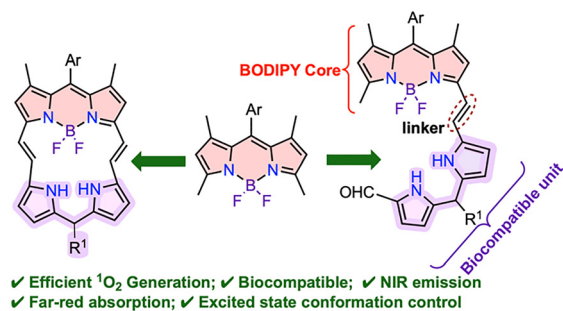
Yunuo Song, Fengfeng Huang, Xiaoyu Huang,*
Guolin Lu and Chun Feng*



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meso-Substitution controlled synthesis of BODIPY-DPM conjugates: a pathway to tailored photophysical properties

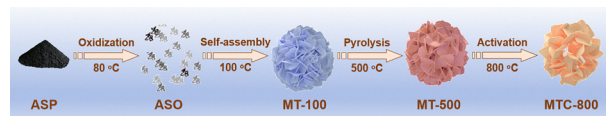
Sonia Swami, Harshita Saroj, Ritika Jaiswal, Yohei Adachi,
Aniruddha Roy, Joji Oshita, Pankaj Arora and
Nitika Grover*



10500

Construction of hierarchical pores and pyridine nitrogen in a metal-free catalyst for efficient oxygen reduction reaction

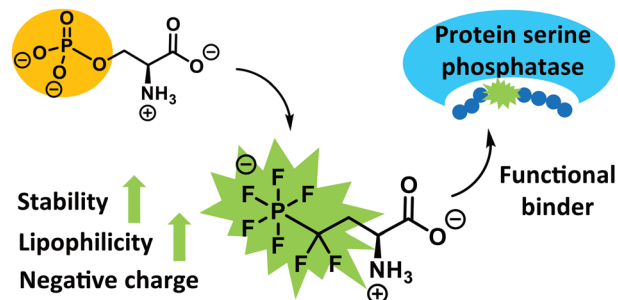
Fangfang Qin, Qian Li, Xiaoqiang He, Shaobo Fu,
Pingping Zuo, Shijie Qu and Wenzhong Shen*



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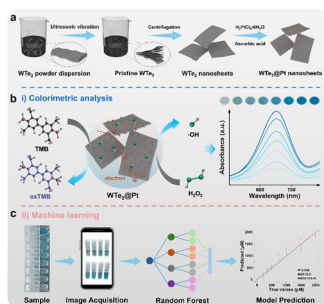
Synthesis and characterization of L-3-(pentafluorophosphato-difluoromethyl)-alanine, a structural and functional mimetic of phosphoserine

Anna Magdalena Ambros, Niklas Limberg,
Katrin Denzinger, Markus Tiemann, Gerhard Wolber,
Sebastian Riedel and Jörg Rademann*



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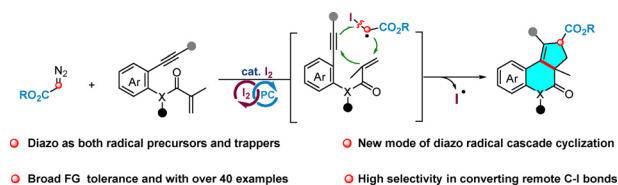
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Engineering a WTe₂@Pt nanozyme for machine learning-empowered colorimetric H₂O₂ detection

Meimei Xu, Yusi Peng, Yuzhen Zhao,* Qian Zhang, Rui Tian, Jiayin Shang, Teng Du, Cheng Ma, Wenqi Song, Zemin He, Zongcheng Miao* and Yong Yang*

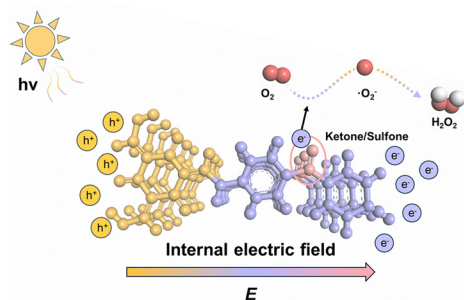
10515



Iodine-photoredox dual catalysis unlocks bifunctional reactivity of α -diazoesters in radical cascade cyclization reactions *via* remote C–I bond dissociation

Xu-Yang Wang, Can Wang, Yong-Min Ma* and Peng Zhao*

10520



Rational design of electron-deficient COFs *via* ketone and sulfone functionalization for dramatically enhanced photocatalytic hydrogen peroxide production

Ze-Lin Yang, Ze Luo, Cheng-Yu Yang, Zhong-Yuan Zhang, Hai-Bo Huang* and Hua Tang*

CORRECTION

10524

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

Kojiro Fuku,* Naohide Tsuji and Ryosuke Ueda



RETRACTION

10525

Retraction: Artificial amidase with modifiable active sites and designable substrate selectivity for aryl amide hydrolysis

Mohan Lakavathu and Yan Zhao*

