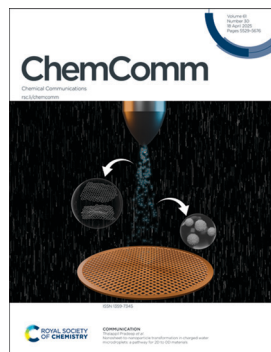


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Cover

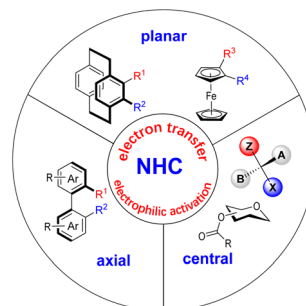
See Thalappil Pradeep
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FEATURE ARTICLES

5540

Enantioselective electrophilic activation of aldehydes, esters and imines via N-heterocyclic carbene catalysis

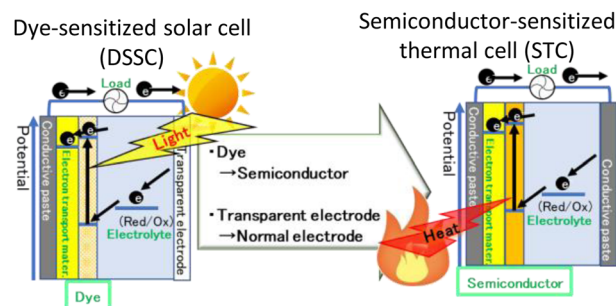
Shiguang Li, Dan Ling, Youlin Deng, Meng Zhang, Lingzhu Chen* and Zhichao Jin*



5556

Redox reaction by thermal excitation carriers in semiconductors: semiconductor-sensitized thermal cell

Sachiko Matsushita



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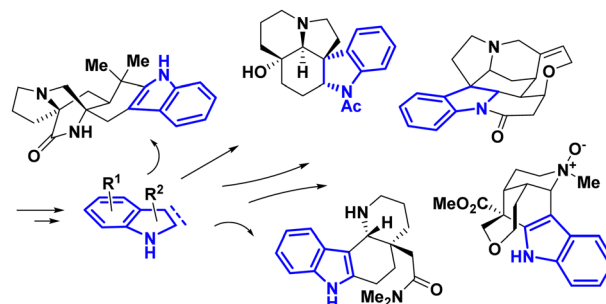


FEATURE ARTICLES

5563

Recent strategy for the synthesis of indole and indoline skeletons in natural products

Carl Bowman, Maxime Denis and Sylvain Canesi*

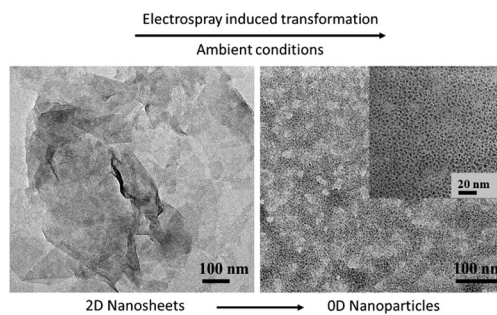


COMMUNICATIONS

5577

Nanosheet-to-nanoparticle transformation in charged water microdroplets: a pathway for 2D to 0D materials

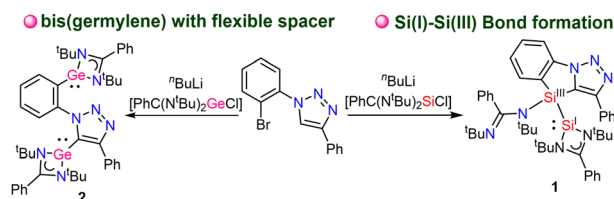
B. Krishnamurthy Spoorthi, Angshuman Ray Chowdhuri, Biswajit Mondal, Sujan Manna, Anubhav Mahapatra, Amoghavarsha Ramachandra Kini and Thalappil Pradeep*



5581

Synthesis and characterization of triazole-functionalized mixed-valent Si(I)–Si(III) and bis(germylene) compounds

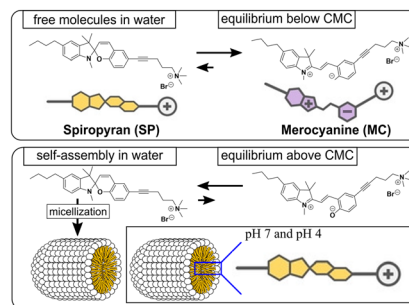
Madhusudan K. Pandey, Zohreh Hendi, Xiaobai Wang, Shahila Muhammed, Arun Kumar, Mukesh K. Singh,* Regine Herbst-Irmer, Dietmar Stalke,* Pattiyil Parameswaran* and Herbert W. Roesky*



5585

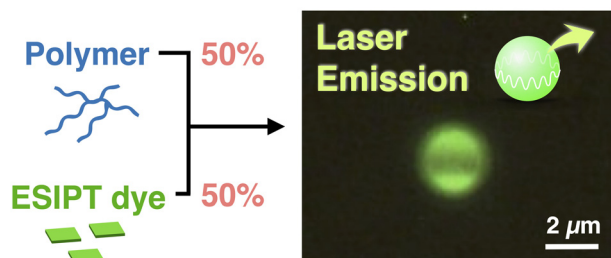
A photo-switchable surfactant possessing a spiropyran-moiety in its backbone – unravelling the structure of micelles with small-angle neutron scattering (SANS) and transmission electron microscopy (TEM)

Marek Bekir,* Matthias Schenderlein, Jakob Ruickoldt, Petra Wendler, Joachim Kohlbrecher, Ingo Hoffmann* and Martin Reifarth*



COMMUNICATIONS

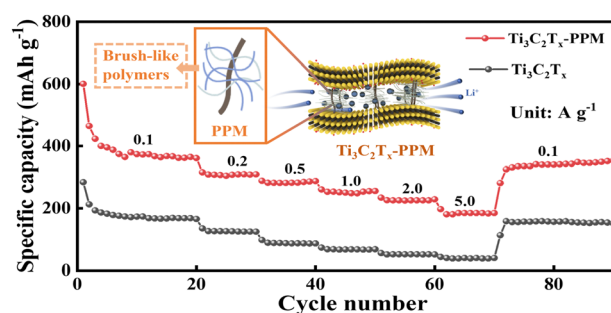
5589



A high gain, low loss, and low-threshold spherical organic laser based on highly miscible excited-state intramolecular proton transfer dyes

Shunya Aoyagi, Yoshiya Omori, Tsukasa Kawamura, Tsuneaki Sakurai,* Masaki Shimizu, Kenichi Yamashita, Yuki Nagai, Yoichi Kobayashi, Yohei Yamamoto* and Hiroshi Yamagishi*

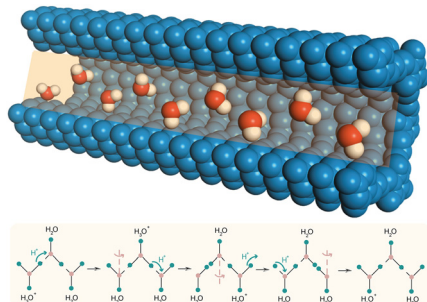
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Artificial interlayer channels composed of a brush-like polymer: enhanced ion transport of $\text{Ti}_3\text{C}_2\text{T}_x$ for lithium storage

Na Li, Huihui An, Yang Cheng, Yuchen Duan, Jiahao Li, Jinwen Qin* and Minhua Cao*

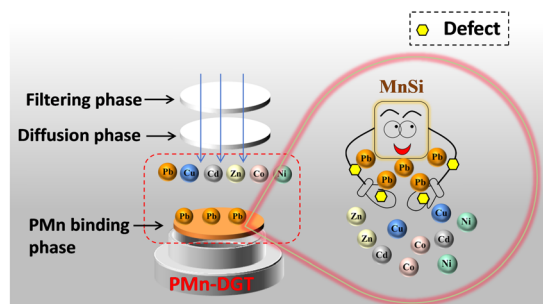
5597



Low-coordination water in COFs and acid-free proton conduction

Kun Zhang,* Yaocheng Han, Ziya Liu, Lei Wu, Wenxin Zhang, Huanhuan Li, Guoji Huang,* Dongshuang Wu, Long Chen and Manni Li*

5601



Amorphous manganese silicate/PVDF membrane in the diffusive gradient in a thin-film for selective monitoring of lead

Na Huang, Yating Wang, Chenxue Ling, Xin Liu, Yuling Cai, Min Deng, Chen Chao, Gang Yang and Lulu Long*

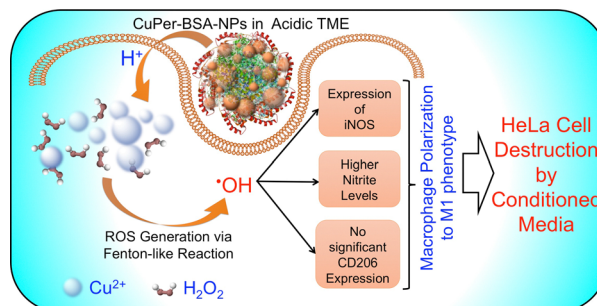


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5605

Copper peroxide incorporated BSA-NPs: a pH-responsive, self-supplying source of reactive oxygen species for cancer cell destruction via polarization of macrophages to the M1 phenotype

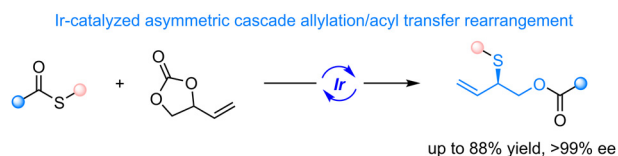
Nursaima Sultana Parbin and Bhabatosh Banik*



5609

Synthesis of chiral β -hydroxy allylic sulfides via iridium-catalyzed asymmetric cascade allylation/acyl transfer rearrangement

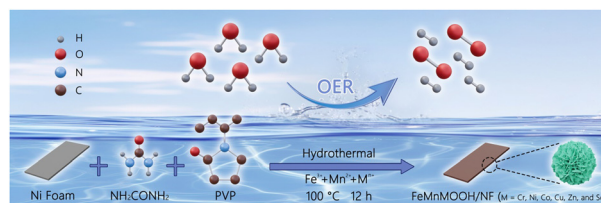
Jun Wei, Zhi-Yuan Yi, Zhuan Jin, Yi Liu, Zuo-Fei Wang, Xiu-Qin Dong* and Chun-Jiang Wang*



5613

Improving the oxygen evolution performance of iron–manganese oxyhydroxides by Cr doping

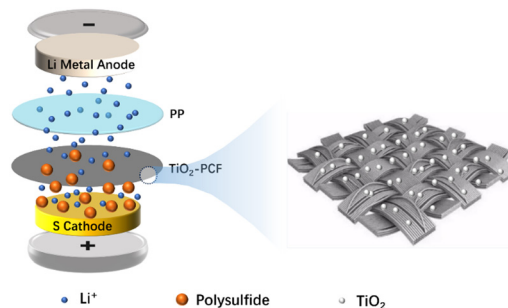
Jiayang Yu, Tianmi Tang, Jingqi Guan* and Yupeng Guo*



5617

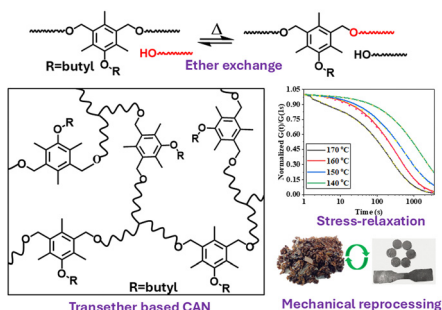
A TiO_2 -modified porous carbon fiber interlayer for long-term cycling and high-rate lithium–sulfur batteries

Xin Chen, Conghao Yu, Ben Chen, Zhuzhu Du* and Wei Ai*



COMMUNICATIONS

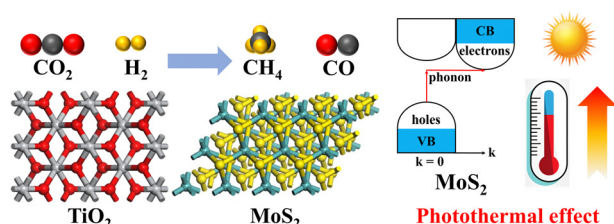
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Benzyl ether: a dynamic covalent motif for designing a trans-ether based covalent adaptable network (CAN)

Pawan Kumar, Vatsalya Gupta, Soumabrata Majumdar, Rahul Patwal, Debabrota Das, Prabin Kumar Ashish and Ramkrishna Sarkar*

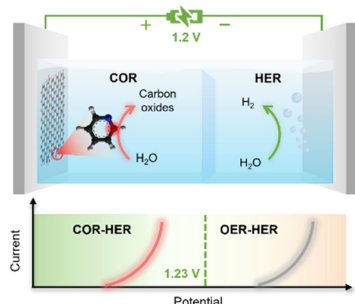
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2D/3D MoS₂/TiO₂ heterojunction for high-efficiency photothermal catalytic CO₂ reduction by phonon heat transfer

Peng Jiang,* Xiangyang Jiang* and Yang Yu*

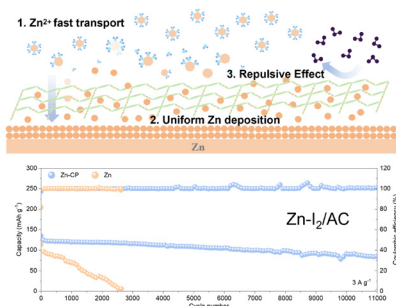
5629



An efficient metal-free carbon catalyst boosting hydrogen production below the 1.23 V water electrolytic boundary

Xu Yang, Wei Guo, Yan Wan, Jinli Liu, Mo Zhang* and Yangming Lin*

5633



Enabling rapid Zn²⁺ ion diffusion and anionic repulsion toward high-performance aqueous zinc-ion batteries

Zuyang Hu, Xueru Yang, Zixin Han, Haoxin Liu, Xiaolong Jiang, Xiaoqing Liu, Ho Seok Park,* Zhipeng Wen* and Cheng Chao Li*

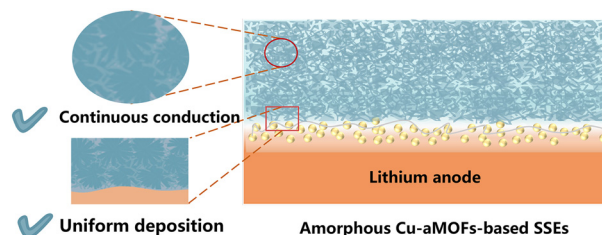


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Flower-like amorphous metal–organic-frameworks-based hybrid-solid-state electrolyte for high-performance lithium–metal battery

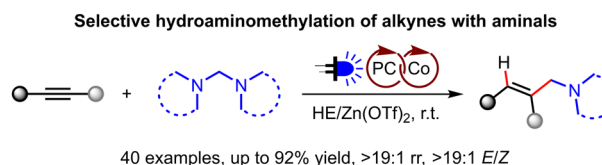
Mingjie Liu, Zhongteng Chen, Bin Chen, Tengfei Liu, Pucheng Zhao, Junling Xu, Lianyi Shao, Xiaoyan Shi* and Zhipeng Sun*



5641

Photoredox cobalt-catalyzed hydroaminomethylation of alkynes with amins

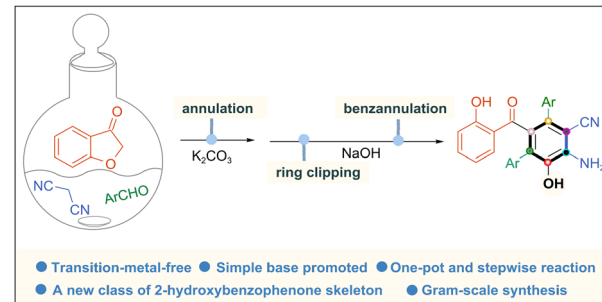
Yang Wu, Chen Chen, Wen-Kai Liu, Xing-Yu Ren and Ji-Bao Xia*



5645

Synthesis of highly substituted 2-hydroxybenzophenones through skeletal clipping of 3-benzofuranones

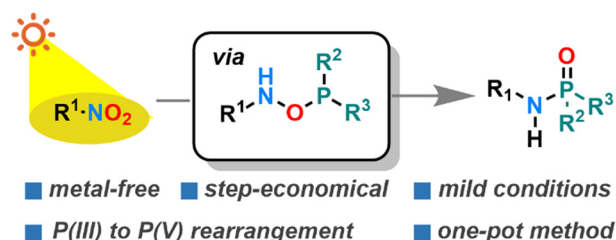
Chuan-Bao Zhang, Jiying Xu, Xiao-Qing Wang, Yi-Hang Deng, Pei-Hao Dou, Wen-Li Xu, Qiu-Xia Han, Lili Zhao* and Ji-Ya Fu*



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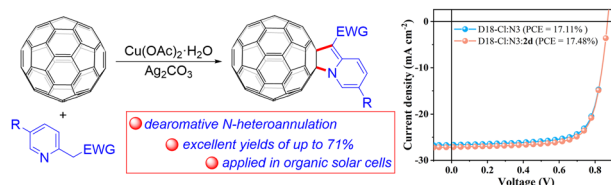
Harnessing nitroarenes: photo-driven synergistic construction of phosphinic amides via hydrogen transfer and oxygen migration

Bin Sun, Zhaokang Zhang, Xiaohui Zhuang, Jiaxin Ling, Chun Lv, Jiayin Wang, Haijing Song, Jiayang Wang and Can Jin*



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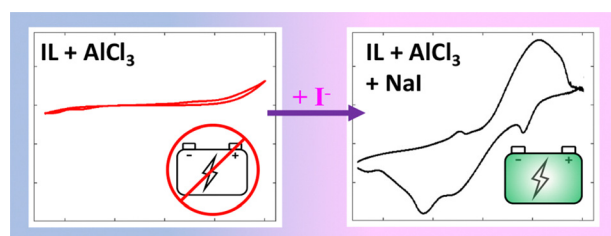
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Synthesis of [60]fullerene-fused dihydroindolizines via copper-catalyzed dearomative N-heteroannulation

Qian-Wen Zhang, Yuanyuan Liu, Zheng-Chun Yin,* Wen-Jie Qiu, Xinmin Huang, Jian-Feng Li and Guan-Wu Wang*

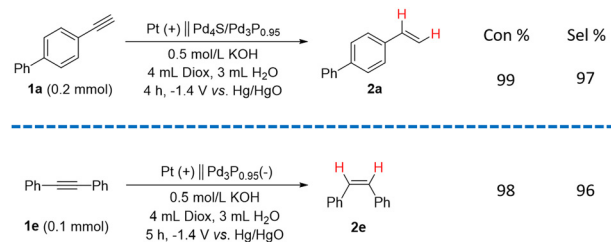
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An air-stable, aluminium-based ionic liquid electrolyte for energy storage

Matthew Stalcup, Mia Blea, Elena Medina, Stephen J. Percival* and Erik D. Spörcke*

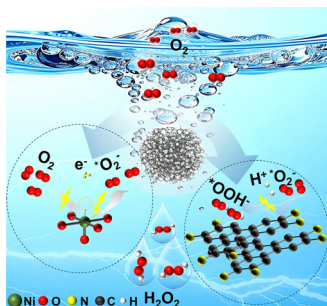
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Modulating the electrocatalytic semihydrogenation selectivity of alkynes from water electrolysis using Pd-based sulfide and phosphide cathodes

Yibo Yan, Peng Wang, Jiangsheng Han, Aihua Wang, Guofeng Zhang,* Yingjun Tian, Yuyang Ge, Wei Gao, Ling Wang, Zunqi Liu* and Jianbin Chen*

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Low-temperature construction of high-density Ni single-atom sites on nitrogen-doped carbon to boost dual-channel oxygen reduction

Ke Yang, Sili Liu, Xinhua Li, Wanchuan Jin, Fen Luo, Ruishi Xie* and Yuanli Li*

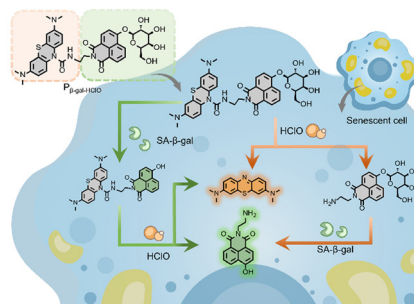


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Dual-target-activated dual-color molecular probe for imaging analysis of cellular senescence

Linlin Wang, Donghui Hong, Jili Li,* Lu Wu, Yinghao Xia, Xinjia Di, Jian Wang, Yuqi Xie, Jun Da and Yanlan Liu*



CORRECTION

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Correction: A charge-adaptive nanosystem for prolonged and enhanced *in vivo* antibiotic delivery

Liping Chu, Honglin Gao, Tangjian Cheng, Yumin Zhang, Jinjian Liu, Fan Huang, Cuihong Yang,* Linqi Shi* and Jianfeng Liu*

