

ChemComm

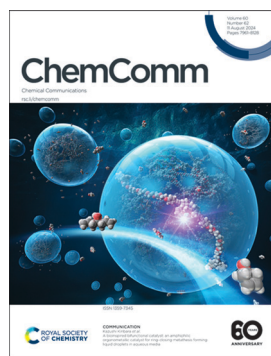
Chemical Communications

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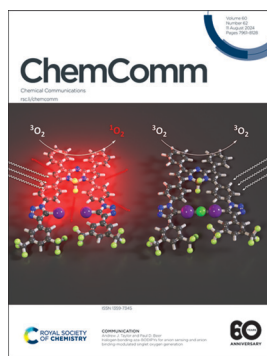
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See Kazushi Kinbara *et al.*, pp. 7979–7982.
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Inside cover

See Andrew J. Taylor and Paul D. Beer, pp. 7983–7986.
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PROFILE

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Contributors to the Pioneering Investigators Collection 2024: Part 1

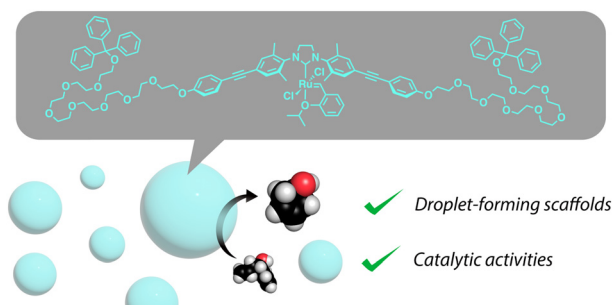


COMMUNICATIONS

7979

A bioinspired bifunctional catalyst: an amphiphilic organometallic catalyst for ring-closing metathesis forming liquid droplets in aqueous media

Miki Mori, Hiroka Sugai, Kohei Sato, Asuki Okada, Takashi Matsuo and Kazushi Kinbara*



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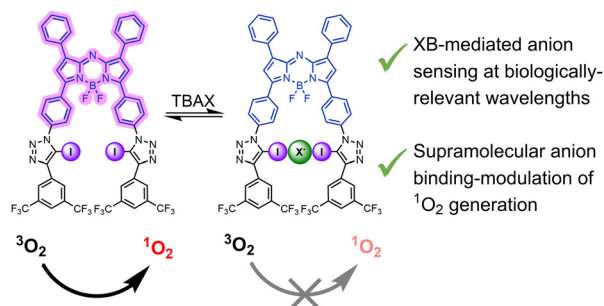
Fundamental questions
Elemental answers

COMMUNICATIONS

7983

Halogen bonding aza-BODIPYs for anion sensing and anion binding-modulated singlet oxygen generation

Andrew J. Taylor and Paul D. Beer*

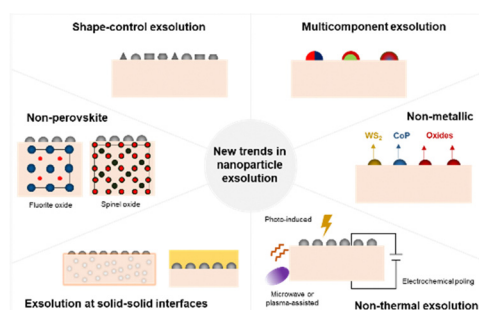


FEATURE ARTICLES

7987

New trends in nanoparticle exsolution

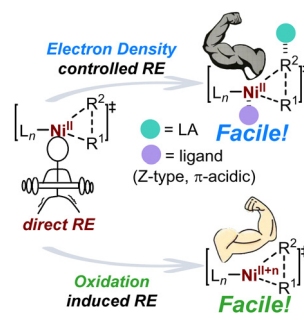
Alfonso J. Carrillo,* Andrés López-García, Blanca Delgado-Galicia and Jose M. Serra*



8008

Mechanistic insights into facilitating reductive elimination from Ni(II) species

Bolin Qiao, Fa-You Lin, Dongmin Fu, Shi-Jun Li, Tao Zhang* and Yu Lan*

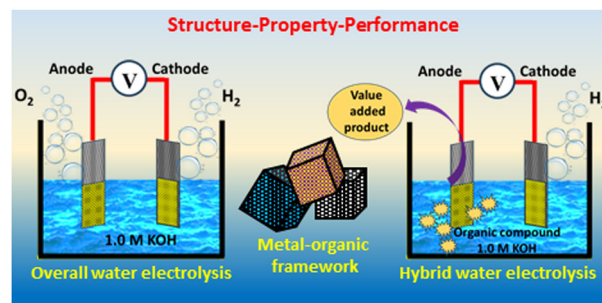


HIGHLIGHT

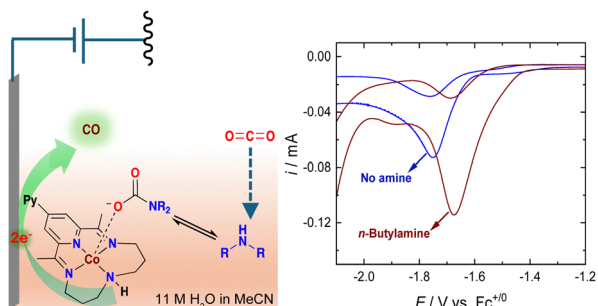
8020

Metal-organic frameworks (MOFs) for hybrid water electrolysis: structure-property-performance correlation

Baghendra Singh* and Harshit Gupta



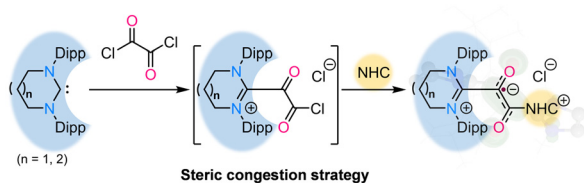
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The influence of exogenous amines on the electrochemical CO₂ reduction activity of a cobalt–pyridyl-diimine catalyst

Piyush Kumar Verma and Charles C. L. McCrory*

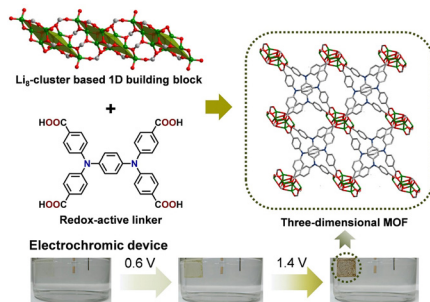
8043



Synthesis of sterically congested unsymmetrical 1,2-dicarbonyl radicals through a stepwise approach

Yuna Song, Hayoung Song, Yunseop Choi, Jongcheol Seo* and Eunsung Lee*

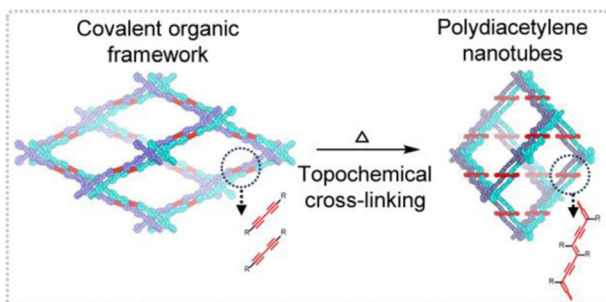
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Construction of a redox-active metal–organic framework with an octanuclear lithium one-dimensional building block

Shu-Fan Li, Ya-Ru Meng, Min-Jie Xu, Gen Zhang* and Jian Su*

8051



Topochemical cross-linking of diacetylene in a highly interpenetrated three-dimensional covalent organic framework

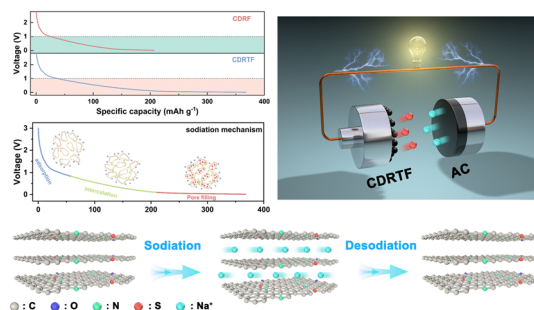
Shangqing Liu, Mengyao Chen, Yu Zhao,* Guolong Xing, Weidong Zhu and Teng Ben*



8055

Heteroatom doping-induced formation of closed pores for high-performance sodium storage hard carbon anodes

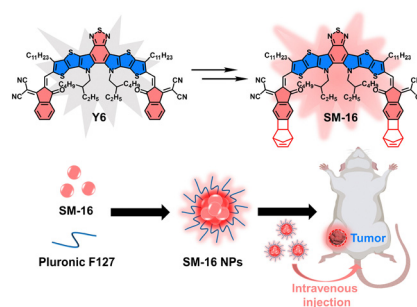
Wenbo Hou, Lili Ma, Anbai Li, Hui Peng, Zhiyuan Liu, Xin Wang, Kanjun Sun, Guofu Ma* and Yuxi Xu*



8059

Design of a high-performance NIR-II nanoprobe by steric regulation for *in vivo* vasculature and tumor imaging

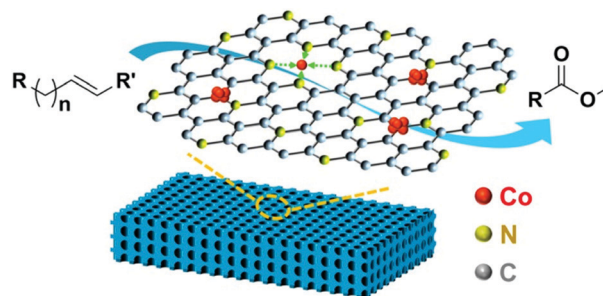
Yu Wang, Yuxin Duan, Chenxing Gong, Yuhang Li, Meilin Xu, Miao Liu, Wenxu Liu,* Xiaole Zhou* and Leyu Wang*



8063

Synergistic catalysis: cobalt-catalyzed cascade reaction for the oxidative cleavage of olefins to access esters

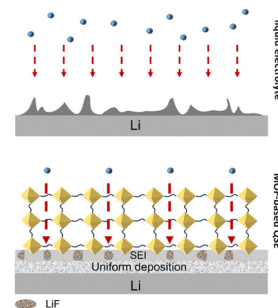
Xiangzhu Yu, Zhengjia Zhao, Shangzhi Tan, Lina Zhu, Weiru Fu, Yue An* and Lianyue Wang*



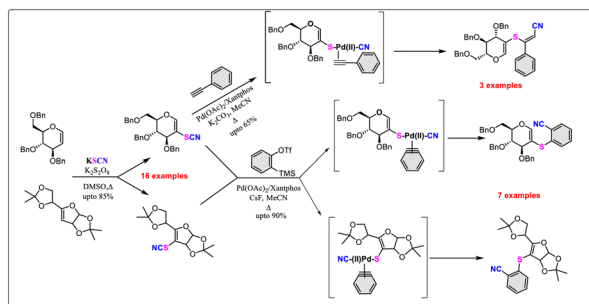
8067

A fluorinated metal–organic framework-based quasi-solid electrolyte for stabilizing Li metal anodes

Xiang Wang, Mengxi Bai, Qiufen Li, Jiashuai Li, Dongze Li, Xiaoyan Lin, Siyuan Shao and Ziqi Wang*



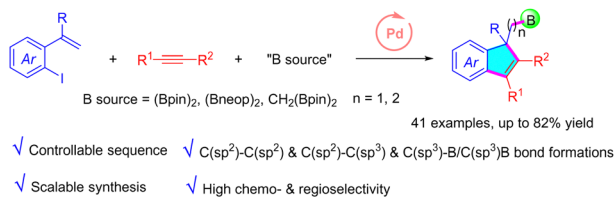
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Peroxodisulfate-assisted synthesis of 2-thiocyanato glycols and their transformation to C-2-thio acrylo/aryl nitrile-substituted glycols

Bisma Rasool, Irshad Ahmad Zargar, Sanchari kundu and Debaraj Mukherjee*

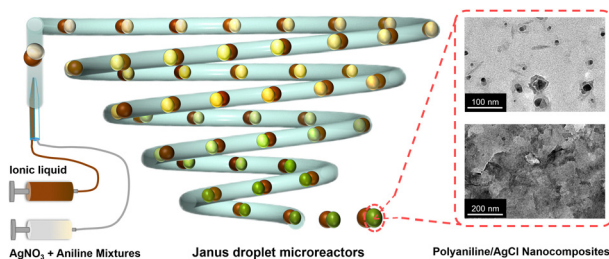
8075



Three-component cascade carbopalladation/ Heck cyclization/borylation: facile access to boryl-functionalized indenenes

Fei Sun, Yiyi Zheng, Mingxia Wu, Hongsen Ji, Zhongyao Jiang, Chenglin Liu and Xin-Xing Wu*

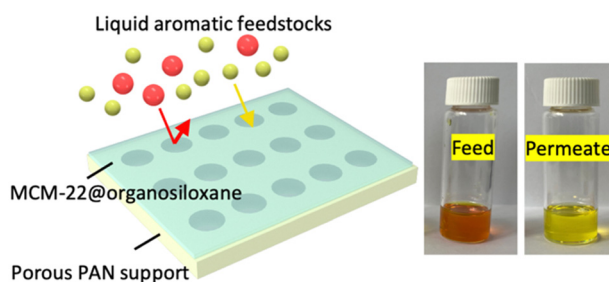
8079



Janus droplet microreactors for preparing polyaniline/AgCl nanocomposites

Hao Wang, Shiteng Wang, Yao Mu and Yi Cheng*

8083



Organosiloxane membranes for heavy aromatic oil fractionation

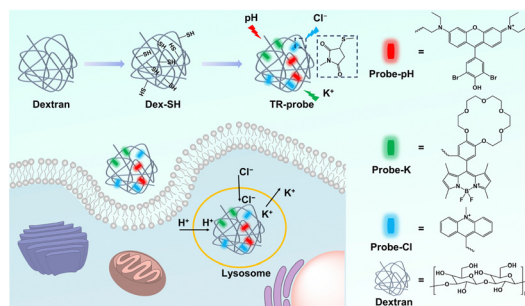
Liang Ma,* Min Hou, Yuemei Wang, Weiyi Tong and Junlin Zheng



8087

Ternary recognition fluorescent probe for lysosome acidification counter-ion studies *via* Cl⁻, K⁺, and pH

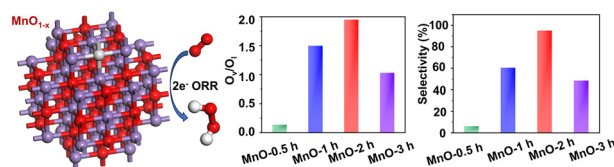
Guang-Yue Zou, Fan Bi, Shuai Chen, Meng-Xian Liu* and Yong-Liang Yu*



8091

Adjusted MnO oxygen vacancy for highly selective ORR production of H₂O₂

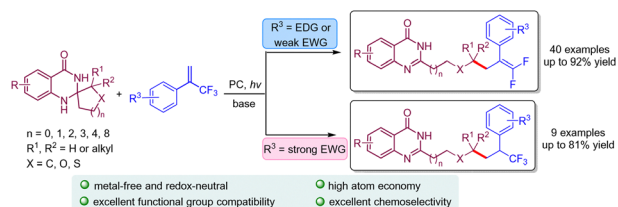
Liangjie Fu, Zixiong Li, Yimin Wu, Aidong Tang* and Huaming Yang*



8095

Metal-free, photoredox-catalyzed aromatization-driven deconstructive functionalization of spiro-dihydroquinazolinones with α -CF₃ alkenes

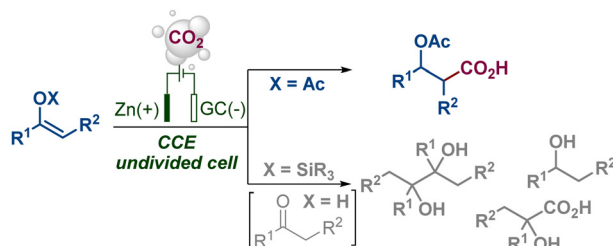
Jin-Hua Zhang, Hong-Jie Miao, Jia-Yi Li, Wenke Li, Pengchen Ma,* Xin-Hua Duan and Li-Na Guo*



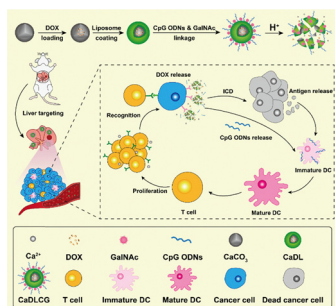
8099

Electrochemical hydrocarboxylation of enol derivatives with CO₂: access to β -acetoxycarboxylic acids

Alexander O. Ustyuzhanin, Oleg V. Bitjukov, Pavel V. Sokolovskiy, Valentina M. Merkulova, Alexey I. Ilvovskiy, Liang-Nian He, Vera A. Vil'*, and Alexander O. Terent'ev*



8103



A GalNAc-modified CaCO₃ nano-immunomodulator for targeted and responsive immunotherapy against orthotopic liver cancer

Yanhua Li, Jiaqi Yin, Jiarui Zhong, Wei Pan, Na Li* and Bo Tang*

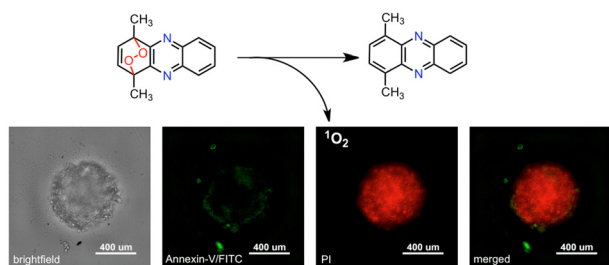
8107



Photochemical radical decarboxylative disulfuration of α -keto acids and oxamic acids

Huangbin Sun, Xueting Bin, Qianfang Zhang, Xiaowen Chen,* Jie Tang* and Guofang Jiang*

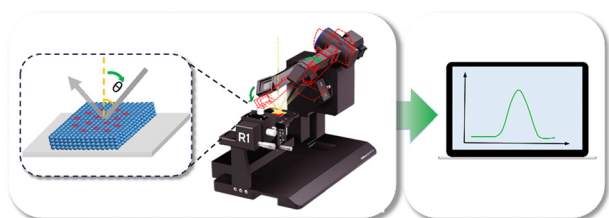
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Self-reporting intracellular delivery agent for singlet oxygen

Yiran Li, Lei Wang,* Shengli Zhang, Ziang Liu, Rensong Sun, Yuan Qiao and Engin U. Akkaya*

8115



Development of an angle-adjustable photonic crystal fluorescence platform for sensitive detection of oxytetracycline

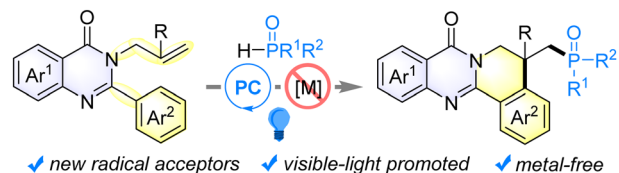
Yunhuan Huang, Jiaheng Zhang, Bo Sui, Guobi Chai, Ajuan Yu, Sheng Chen, Miaomiao Zhang, Shusheng Zhang, Yanhao Zhang* and Wuduo Zhao*



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Visible-light promoted radical cascade cyclization of 3-allyl-2-arylquinazolinones for the synthesis of phosphorylated dihydroisoquinolino[1,2-*b*]quinazolinones

Jun Huang, Caijin Ban, Jiangping Qin, Jiali Xu, Yunqiong Gu, Liang Wei,* Jing-Mei Yuan* and Guobao Huang*



8123

A high-performance magnesium/lithium hybrid-ion battery using a hollow multi-layered NiS/Co₃S₄/carbon cathode and an all-phenyl-complex-based electrolyte

Jiamin Liu, Ting Zhou, Yun Shen, Lixing Li, Yajun Zhu and Jinyun Liu*

