Chemical Science

rsc.li/chemical-science

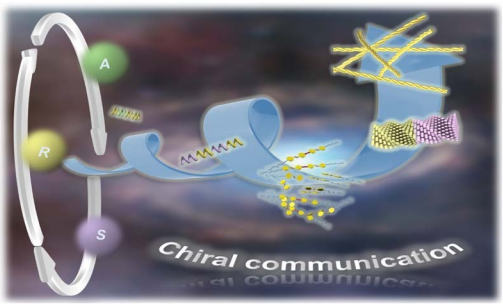
The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

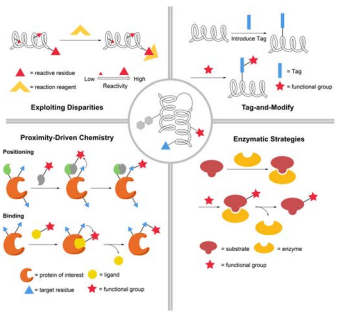
ISSN 2041-6539 CODEN CSHCBM 17(20) 9799–10292 (2026)

Cover
See Georg Stary, Nuno Maulide *et al.*, pp. 9912–9920. Image reproduced by permission of Nuno Maulide from *Chem. Sci.*, 2026, **17**, 9912.

PERSPECTIVE



REVIEWS



ROYAL SOCIETY OF CHEMISTRY

EES Catalysis

GOLD OPEN ACCESS

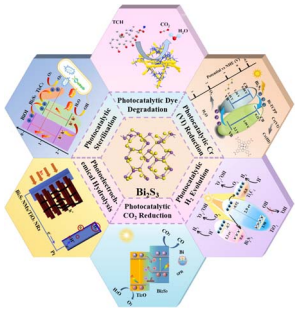
Exceptional research on energy and environmental catalysis

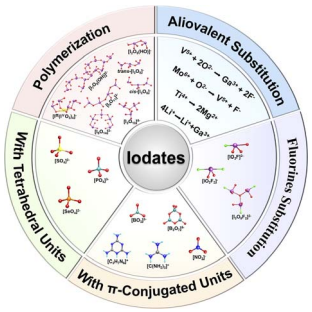
Open to everyone. Impactful for all

rsc.li/EESCatalysis

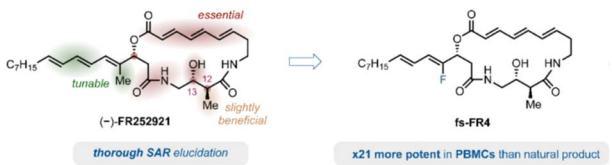
Fundamental questions
Elemental answers

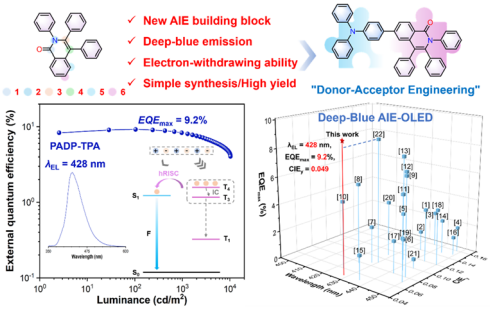
REVIEWS



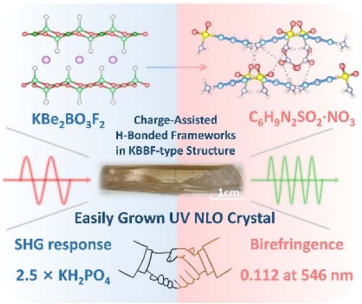


EDGE ARTICLES



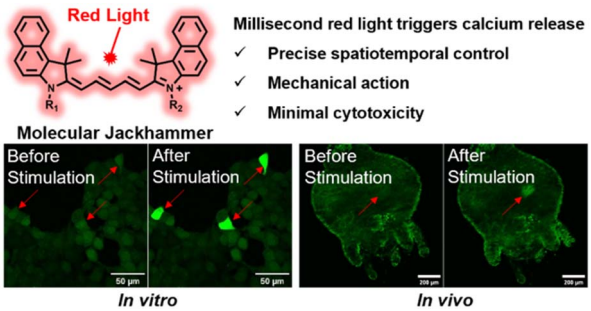


EDGE ARTICLES



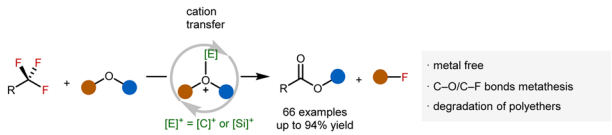
Regulating KBBF-like structures *via* a charge-assisted hydrogen-bonded framework to enable easily grown ultraviolet nonlinear optical crystals

Mingshu Zhang, Shuya Zhao, Zhen-Cheng Wu, Yue Yin, Zheyu Zhang, Jiafeng Chen, Sheng-Ping Guo* and Yan Zhou*



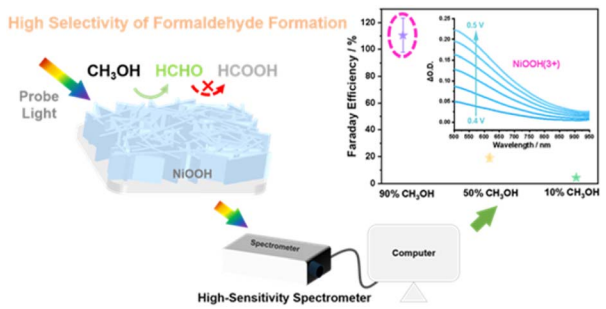
Molecular jackhammers induce intracellular calcium release and skeletal muscle contraction by vibronic-driven action

Yuchen Rui, Bowen Li,* Vardan Vardanyan, Soonyoung Kim, Dallin Arnold, Jacob L. Beckham, Ciceron Ayala-Orozco, Ana L. Santos, Gautam Chaudhry, Lixin Zhou, Shichen Xu, Tengda Si, Zicheng Wang, Angel A. Martí, Anatoly Kolomeisky,* Jacob T. Robinson* and James M. Tour*



Conversion of trifluoromethyls into esters along with polyether upcycling *via* cation-transfer-catalyzed C–O/C–F metathesis

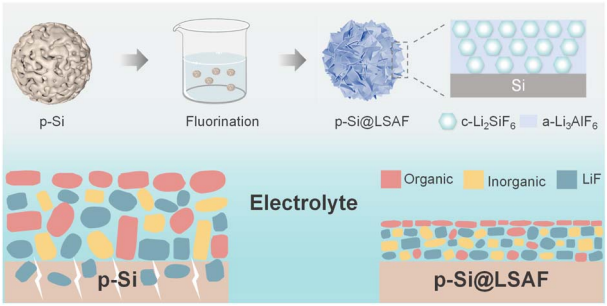
Zhuojun Li, Xiangqian Shi, Dongke Zhang and Qian Wu*

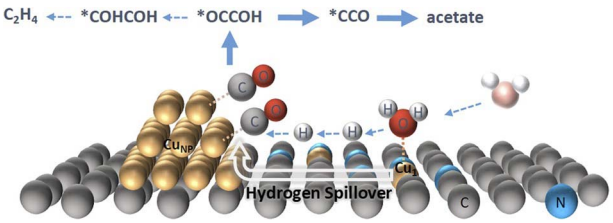


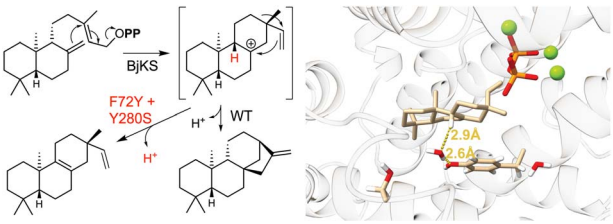
Unraveling the hidden conditions in NiOOH for electrocatalytic oxidation of methanol to formaldehyde with unity Faraday efficiency and selectivity

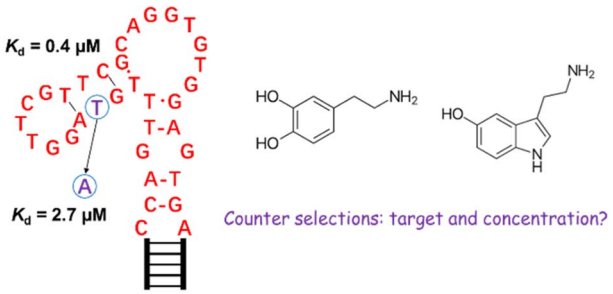
Zixuan Ma, Yuling Yuan, Ze Lv and Yimeng Ma*

EDGE ARTICLES



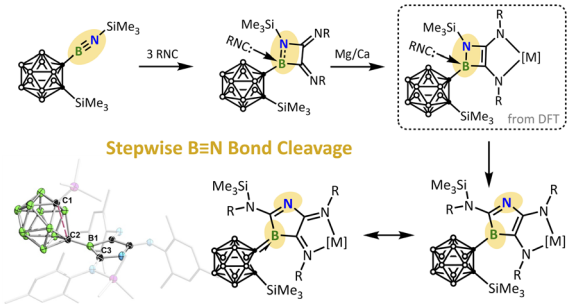


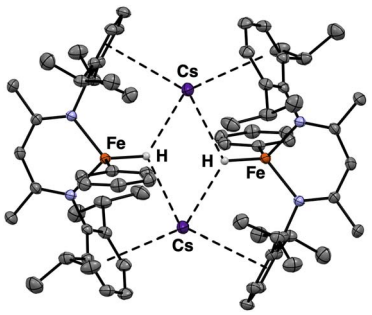


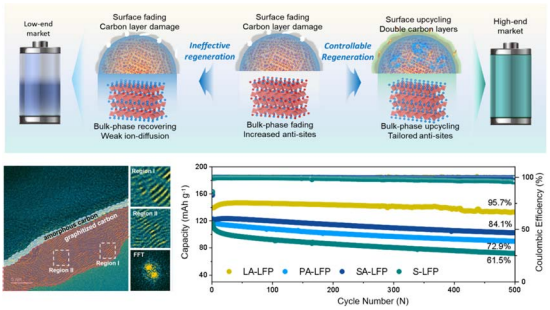


EDGE ARTICLES

EDGE ARTICLES

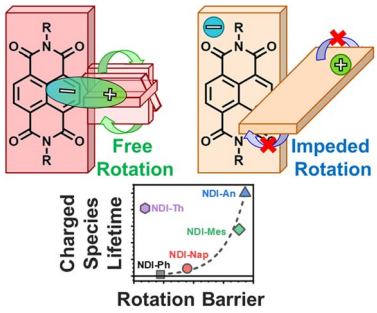


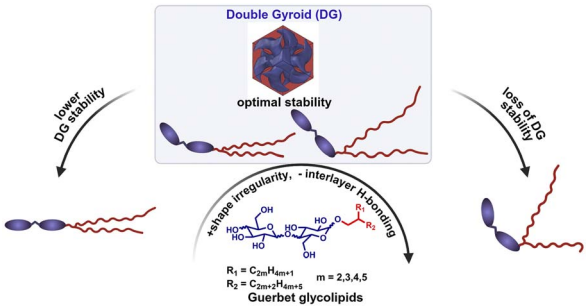


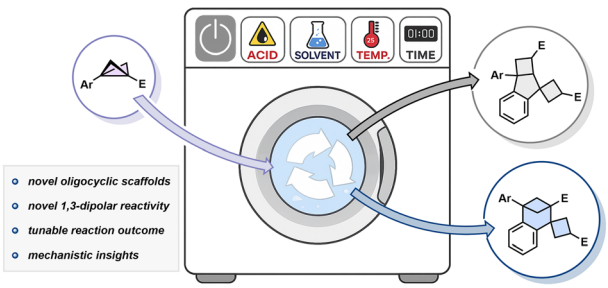


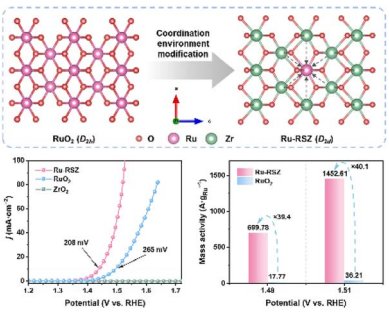
EDGE ARTICLES

EDGE ARTICLES



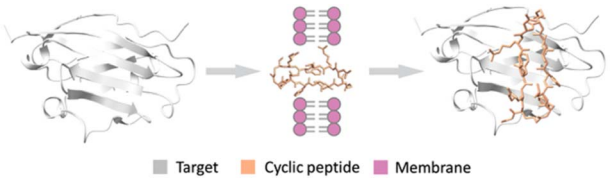


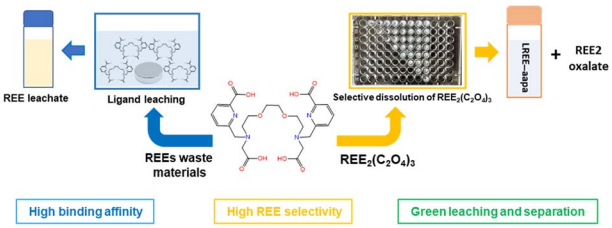


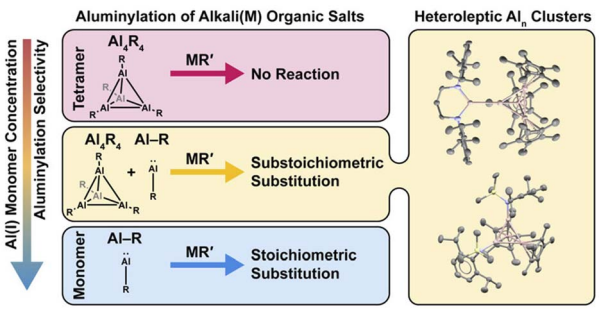


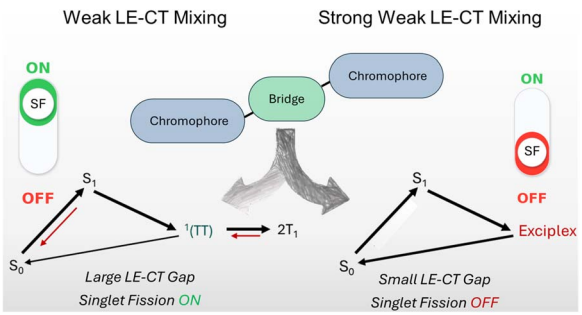
EDGE ARTICLES

EDGE ARTICLES

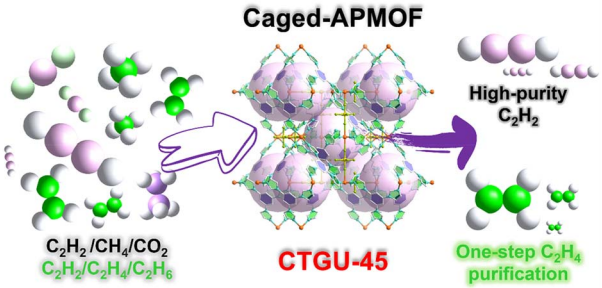






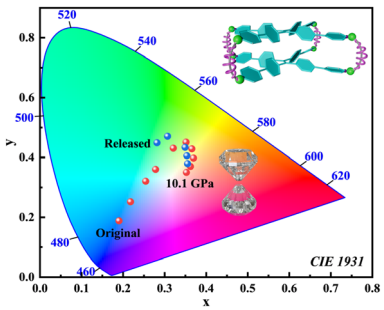


EDGE ARTICLES



Linker desymmetrisation directs low-polar cages in an anion-pillared MOF for acetylene and ethylene purification from ternary mixtures

Jun-Jie Wu, Peng-Dan Zhang,* Xue-Qian Wu,* Shuai-Hao Huang, Wen-Wen Dong, Ya-Pan Wu and Dong-Sheng Li*



Deciphering the stimuli-responsive behavior of TPPE-incorporated flexible metal–organic frameworks

You Fan, Zhikai Zhu, Shuo Zhou, Federico Gorelli, Yuchen Ye, Huixin Hu, Shenghan Zhang, Hongliang Dong, Changzhong Liao,* Ziyou Zhang* and Zhiqiang Chen*

RETRACTION

Retraction: Ligand assisted Co(II) catalyzed direct C–H alkylation of aryl ketones with diverse alkyl halides

Aniket Nigade, Saurabh Vinod Parmar and Vidya Avasare*