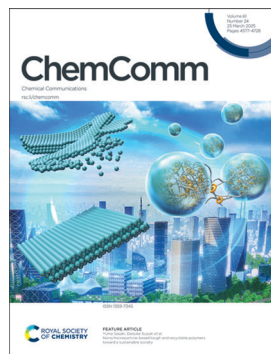


IN THIS ISSUE

ISSN 1359–7345 CODEN CHCOFS 61(24) 4577–4728 (2025)



Cover

See Yuma Sasaki, Daisuke Suzuki *et al.*, pp. 4606–4620. Image reproduced by permission of Daisuke Suzuki from *Chem. Commun.*, 2025, 61, 4606.



Inside cover

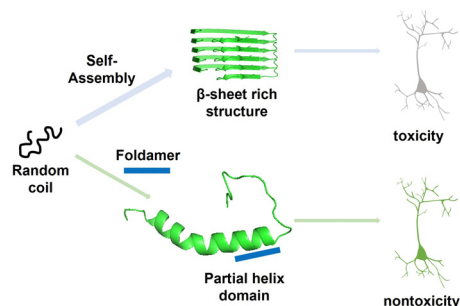
See Martin Kotora *et al.*, pp. 4662–4665. Image reproduced by permission of Martin Kotora from *Chem. Commun.*, 2025, 61, 4662.

HIGHLIGHTS

4586

Unnatural foldamers as inhibitors of A β aggregation via stabilizing the A β helix

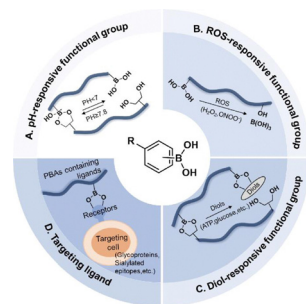
Heng Liu, Xue Zhao, Jianyu Chen, Yu Yu Win and Jianfeng Cai*



4595

Phenylboronic acid-modified nanoparticles for cancer treatment

Siming Zhou, Liqun Dai, Lili Pan, Guohua Shen* and Zhiyong Qian*



**GOLD
OPEN
ACCESS**

EES Batteries

**Exceptional research on
batteries and energy storage**

 Part of the EES family

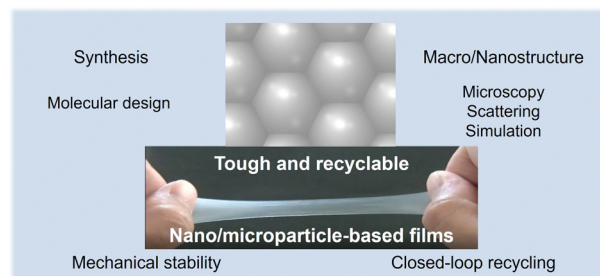
**Join
in** | Publish with us
rsc.li/EESBatteries

FEATURE ARTICLES

4606

Nano/microparticle-based tough and recyclable polymers toward a sustainable society

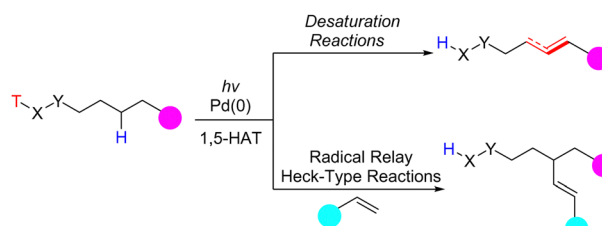
Yuma Sasaki,* Yuichiro Nishizawa, Takuma Kureha and Daisuke Suzuki*



4621

Recent advances in photoinitiated Pd-catalyzed desaturation and Heck-type reactions via 1,5-hydrogen atom transfer

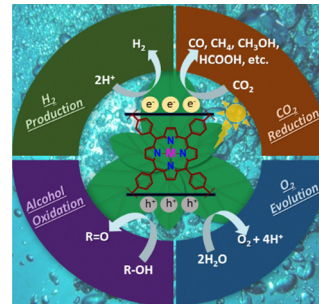
Lu-ning Tang, Jia-cheng Miao and Ming Chen*



4630

Metalloporphyrins in bio-inspired photocatalytic conversions

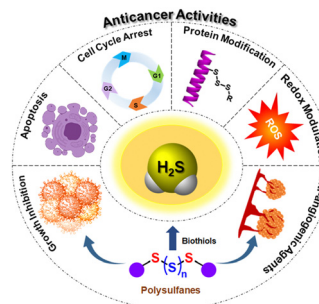
Asterios Charisiadis, Vasilis Nikolaou, Emmanouil Nikoloudakis, Kalliopi Ladomenou,* Georgios Charalambidis* and Athanassios G. Coutsolelos*



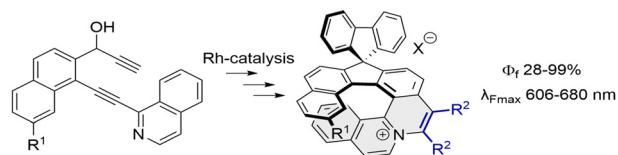
4647

Synthetic organic polysulfanes as H₂S donors and anticancer agents

Abu Sufian, Debojit Bhattacharjee, Pallavi Barman, Rahul Kesarwani, Samanway Das and Krishna P. Bhabak*



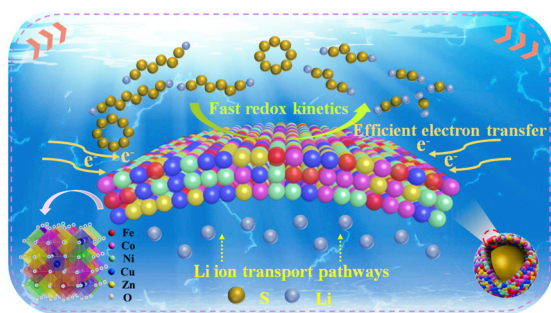
4662



Synthesis of highly fluorescent helical quinolizinium salts by a Rh-catalyzed cyclotrimerization/C–H activation sequence

Timothée Cadart, Lucia Feriancová, Petr Henke, Robert Gyepes, Ivana Cisařová, Květa Kalíková and Martin Kotora*

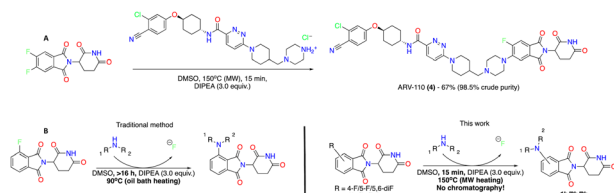
4666



High-entropy oxide hollow spheres as efficient catalysts to accelerate sulfur conversion kinetics toward lithium–sulfur batteries

Shuang Yu, Yingying Song, Xueda Li, Fang Liu, Huining Chang, Hongqiang Wang* and Jiao Li*

4670



Microwave-assisted synthesis of pomalidomide building blocks for rapid PROTAC and molecular glue development

Diaaeldin I. Abdallah, Johan Israelian, Lina S. Hasan, Naman H. Patel, Jeffrey W. Keillor, Timothy B. Wright, Bilal Saqib, Elvin D. de Araujo and Patrick T. Gunning*

4674

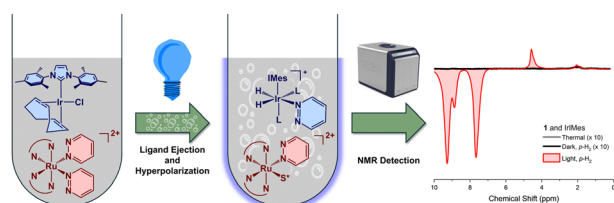


Photo-ejected ligands hyperpolarized by parahydrogen in reversible exchange

Emily E. Brown, Rielly J. Harrison, Dmytro Havrylyuk, Stephen J. McBride, Edith C. Glazer, Felix N. Castellano* and Thomas Theis*

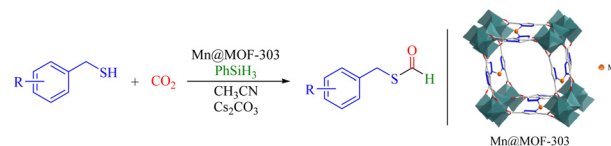


COMMUNICATIONS

4678

A novel Mn@MOF-303 as a catalyst for the highly efficient S-formylation of benzyl thiols with CO₂

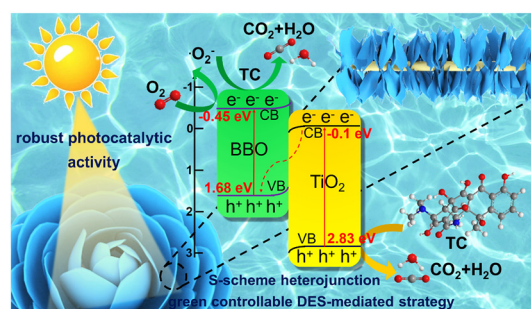
Ya-Shuai Liu, Zhi-Qiang Wang,* Yong-Po Zhang, Wei-Yu Mu, Wen-Min Wang* and Jin-Zhong Zhao*



4682

Green DES-mediated preparation of the rose-shaped S-scheme heterojunction photocatalyst (β -Bi₂O₃/Bi₂O_{2.33})/TiO₂ to boost antibiotics degradation

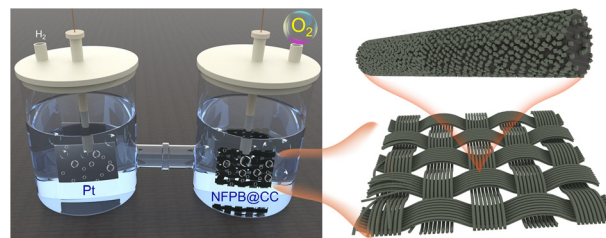
Xiaoyun Zhu, Yongjiao Hu, Lijia Wang, Xuhua Wang, Yingqiang Zhao, Qikun Zhang, Pin Hao* and Qian Wang*



4686

In situ integration of bimetallic NiFe Prussian blue analogs on carbon cloth for the oxygen evolution reaction

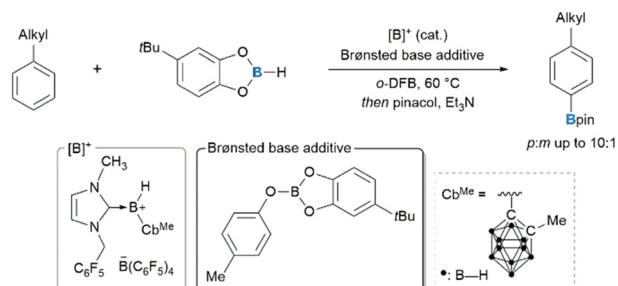
Zhiyong Wang, Shusheng Wan, Yuanmao Chen, Juntao Ren,* Lin Liu, Panpan Yuan, Qiong Luo, Peng Deng, Zheng Liang, Xinyang Yue* and Junxiong Wang*



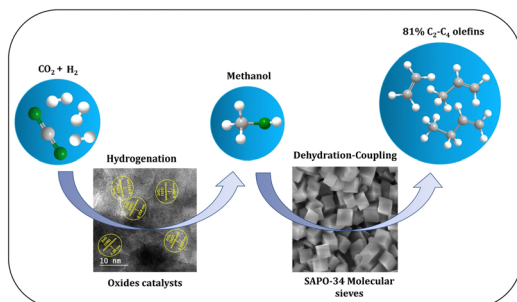
4690

Borenium-catalysed *para*-selective borylation of alkylarenes

Xinyue Tan and Huadong Wang*



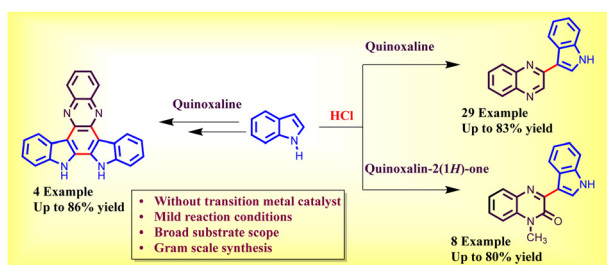
4694



Controlled acidity-mediated short-chain olefin synthesis over a Mn–Zn–Zr/Zn-*SAPO*-34 catalyst via CO₂ hydrogenation

Gaje Singh, Satyajit Panda, Vivek Kumar Shrivastaw and Ankur Bordoloi*

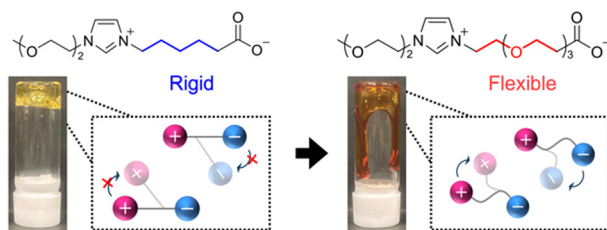
4698



Brønsted acid-mediated mono- and di-substitution of quinoxalines with indoles: a pathway to indolocarbazole-quinoxaline scaffolds

Mangesh Biramya Valvi, Gaurav Badhani, Karan Prakash More and Subbarayappa Adimurthy*

4702

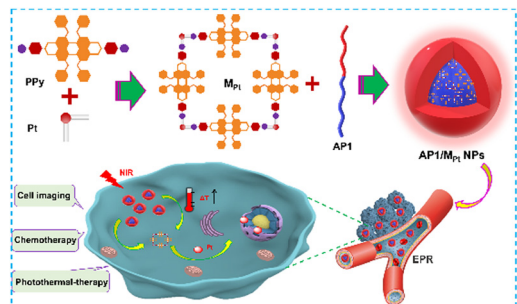


First stirrable r.t. – zwitterionic liquids

A low-viscous and flowable zwitterionic liquid

Mitsuhiro Shimizu, Tetsuo Fujie, Mayu Shibata, Tetsuo Komori, Kazuaki Ninomiya, Kenji Takahashi, Takuya Uto and Kosuke Kuroda*

4706



A discrete platinum(II)-metallacycle with enhanced red emission for imaging-guided synergistic cancer photothermal-chemotherapy

Tianying Liu, Yujia Meng, Xufeng Liang, Jianxia Zhang, Wengiang Yu, Yushan Cheng, Yao Zhou, Haotian Wang, Hui Duan, Jiaye Zou, Yiqiao Bai, Huanren Chen,* Ying Han* and Yong Yao*

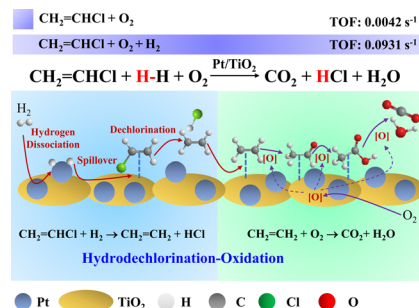


COMMUNICATIONS

4710

Hydrodechlorination under O₂ promotes catalytic oxidation of CVOCs over a Pt/TiO₂ catalyst at low temperature

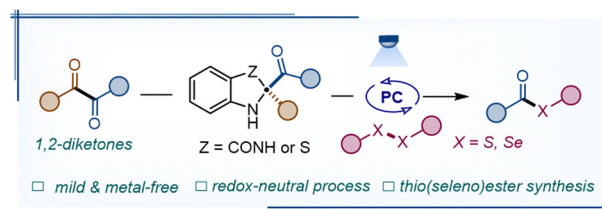
Yonghua Zhao, Yanke Yu,* Jiahang Li, Jinmin Xie and Chi He*



4714

Photocatalytic C–C bond thio(seleno)esterification of 1,2-diketone-derived pro-aromatic intermediates

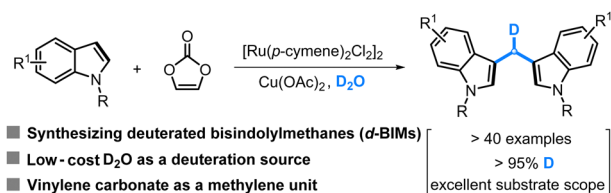
Amit Pal, Sudip Sarkar, Aaron Shibu, Prakash Maity and Basudev Sahoo*



4718

Ruthenium-catalyzed monodeuterium-methylenation of two indole units with vinylene carbonate as a novel methylene precursor

Jiang Nan,* Lulu Xu and Rui Cao



4722

A [Cu₂₄^{II}] truncated octahedron and its [Cu₈^{II}] building block

Lucinda R. B. Wilson, Gary S. Nichol, Scott J. Dalgarno* and Euan K. Brechin*

