

# ChemComm

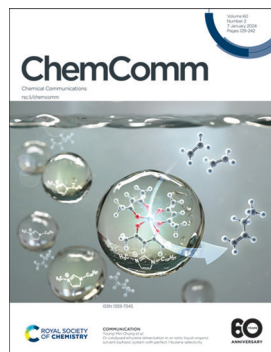
Chemical Communications

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## IN THIS ISSUE

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### Inside cover

See Masafumi Ueda *et al.*, pp. 172–175. Image reproduced by permission of Masafumi Ueda from *Chem. Commun.*, 2024, 60, 172.

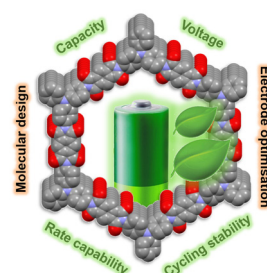
## HIGHLIGHT

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### Organic electrodes based on redox-active covalent organic frameworks for lithium batteries

Raquel Dantas, Catarina Ribeiro and Manuel Souto\*

#### Redox-active COFs

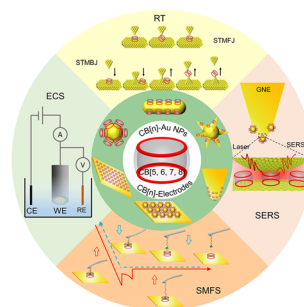


## FEATURE ARTICLE

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### Emerging sensing platforms based on Cucurbit[n]uril functionalized gold nanoparticles and electrodes

Tao Ma, Shuai Chang, Jin He\* and Feng Liang\*





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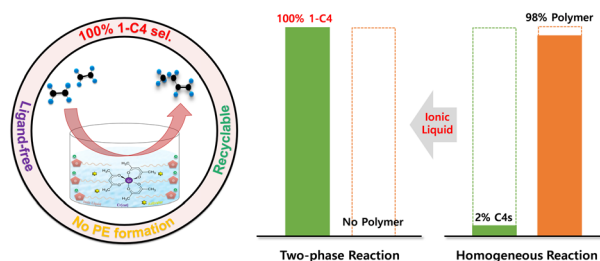


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### Cr-catalysed ethylene dimerization in an ionic liquid-organic solvent biphasic system with perfect 1-butene selectivity

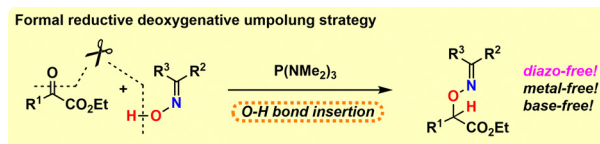
Nguyen Thi Kim Chau, Seungwhan Kim, Hyo-Jun Lee, Minjae Lee and Young-Min Chung\*



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### Synthesis of oxime ethers *via* a formal reductive O–H bond insertion of oximes to $\alpha$ -keto esters

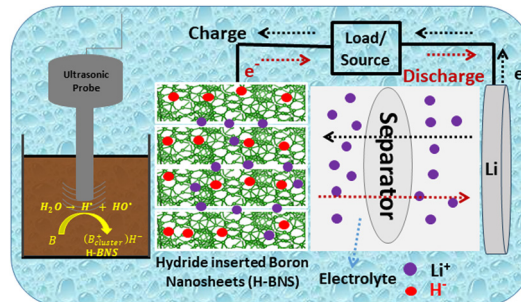
Norihiko Takeda, Ryoya Maeda, Motohiro Yasui and Masafumi Ueda\*



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### Sonochemically synthesized hydride-stabilized boron nanosheets *via* radical-assisted oxidative exfoliation for energy storage applications

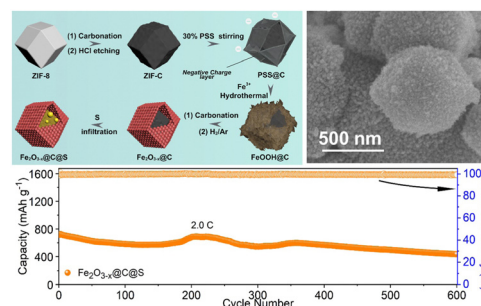
Anandhakumar Sukeri, Swati Panigrahi and Kothandaraman Ramanujam\*



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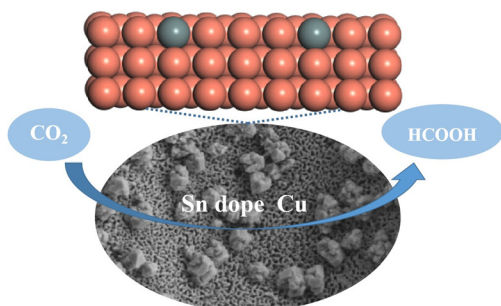
### Core-shell oxygen-deficient $\text{Fe}_2\text{O}_3$ polyhedron serves as an efficient host for sulfur cathode

Jun Pu,\* Ziyang Huang, Jie Wang,\* Yun Tan, Shanshan Fan and Zhenghua Wang



## COMMUNICATIONS

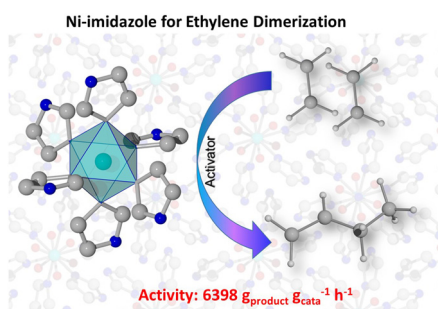
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### Dealloying-derived nanoporous Sn-doped copper with prior selectivity toward formate for CO<sub>2</sub> electrochemical reduction

Hefeng Yuan,\* Bohao Kong, Zehao Liu, Li Cui and Xiaoguang Wang\*

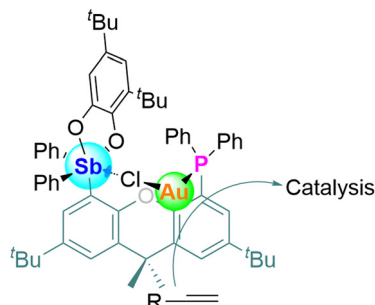
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### Facile preparation of a Ni-imidazole compound with high activity for ethylene dimerization

Zhaohui Liu, Guanxing Li, Mohammed R. Alalouni, Ziyin Chen, Xinglong Dong,\* Jianjian Wang and Cailing Chen\*

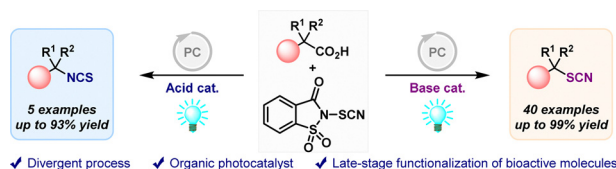
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Jordan Vigier, Mélissa Gao, Philippe Jubault, Hélène Lebel\* and Tatiana Besset\*



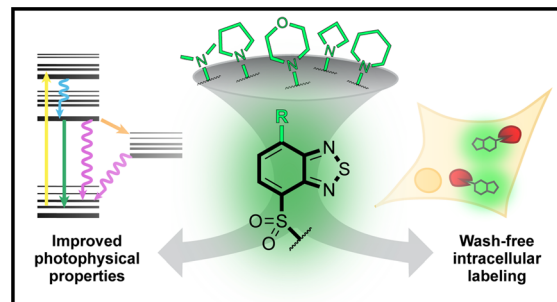


## COMMUNICATIONS

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**Engineered fluorogenic HaloTag ligands for turn-on labelling in live cells**

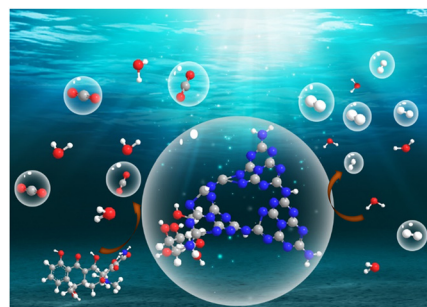
Bryan J. Lampkin\* and Joshua A. Kritzer\*



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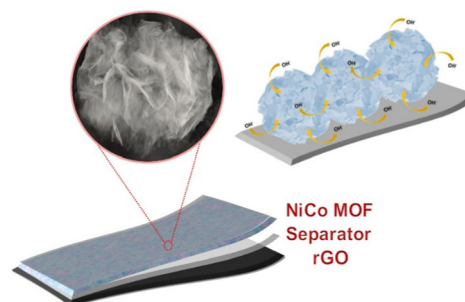
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**A high valence binary metalorganic framework as an electrode material for aqueous asymmetric supercapacitors**

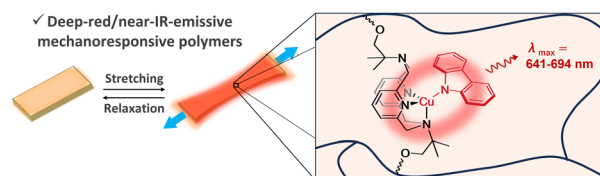
T. B. Naveen, D. Durgalakshmi,\* S. Balakumar and R. Ajay Rakkesh\*



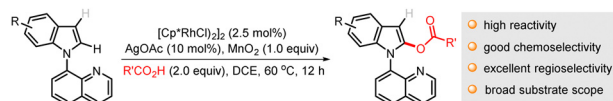
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Tatiana Gridneva, Ayumu Karimata, Richa Bansal, Robert R. Fayzullin, Serhii Vasylevskyi, Andrew Bruhacs and Julia R. Khusnutdinova\*



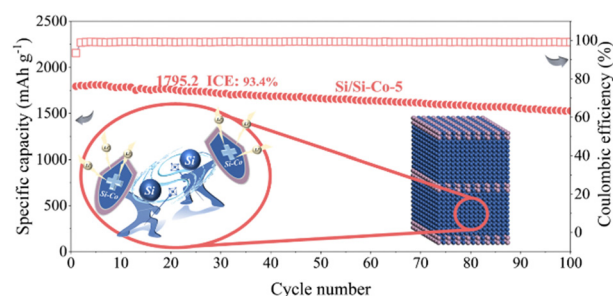
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### Rh(III)-catalyzed selective C2 C–H acyloxylation of indoles

Chaoying Fang, Li Li, Haitao Yang, Caiyang Kong, Jitan Zhang,\* Meihua Xie\* and Jiaping Wu\*

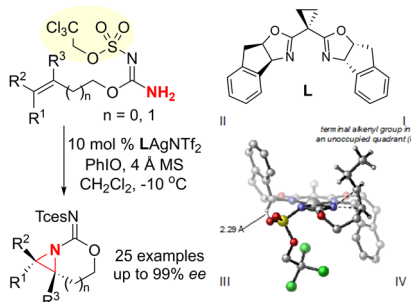
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### Interfacial engineering of Si anodes by confined doping of Co toward high initial coulombic efficiency

Yuanyuan Han, Haoyu Fu, Guihuan Chen,\* Xiaoshan Wang, Yue Zhao, Xiang Sui, Zhiqiang Zhao, Xiancheng Sang, Qinghao Li and Qiang Li\*

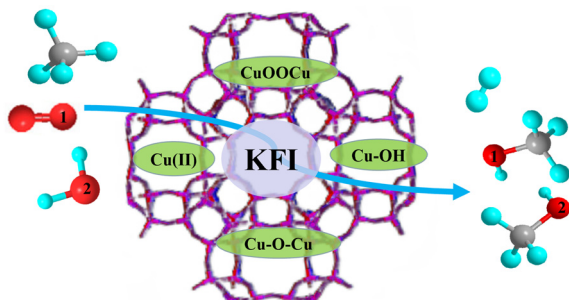
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### Continuous selective conversion of methane to methanol over a Cu-KFI zeolite catalyst using a water–O<sub>2</sub> mixture as the oxygen source

Hailong Zhang,\* Jiaxiu Guo and Yi Cao\*



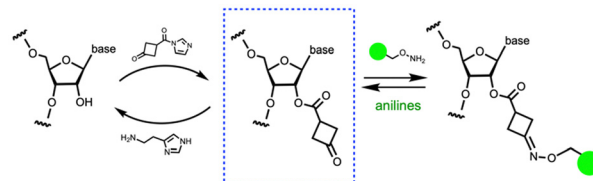


## COMMUNICATIONS

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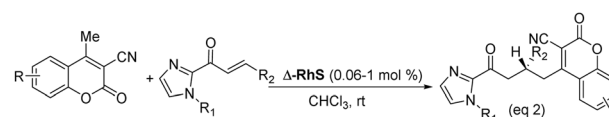
Ryuta Shioi, Lu Xiao, Linglan Fang and Eric T. Kool\*



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### Catalytic asymmetric conjugate addition of coumarins to unsaturated ketones catalyzed by a chiral-at-metal Rh(III) complex

Xiangjie Chen, Yujie Zhao, Cheng Huang, Zhifei Zhao, Weiwei Zhao\* and Shi-Wu Li\*



- 23 examples, 41-99% yields, 84-99% ee
- mild reaction conditions and broad scope
- high enantioselectivity and lower catalyst loading

