

# ChemComm

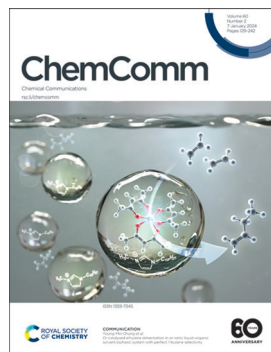
Chemical Communications

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## IN THIS ISSUE

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### Cover

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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.

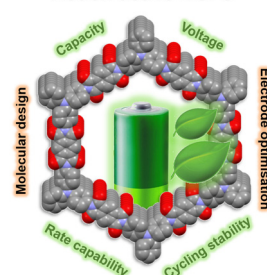
## HIGHLIGHT

138

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

Raquel Dantas, Catarina Ribeiro and Manuel Souto\*

#### Redox-active COFs

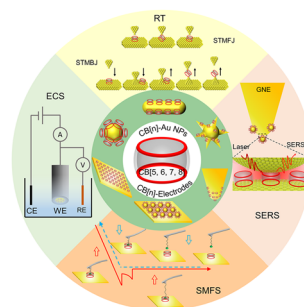


## FEATURE ARTICLE

150

### 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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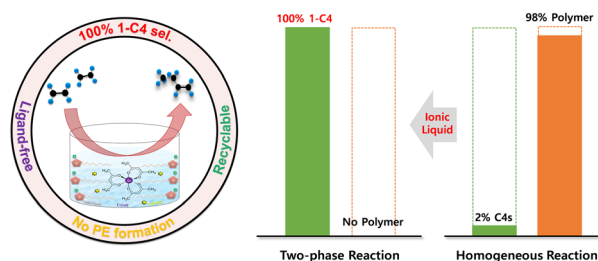


## COMMUNICATIONS

168

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

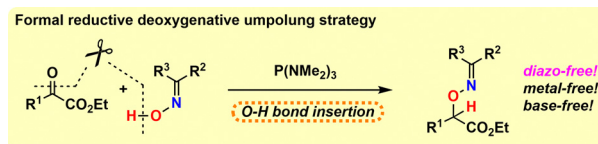
Nguyen Thi Kim Chau, Seungwhan Kim, Hyo-Jun Lee, Minjae Lee and Young-Min Chung\*



172

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

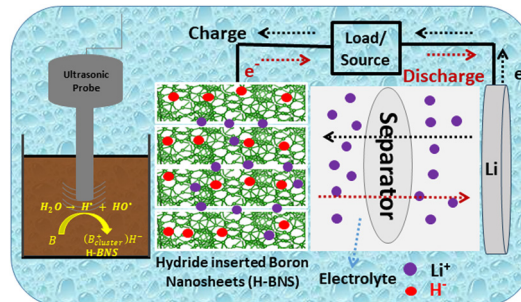
Norihiko Takeda, Ryoya Maeda, Motohiro Yasui and Masafumi Ueda\*



176

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

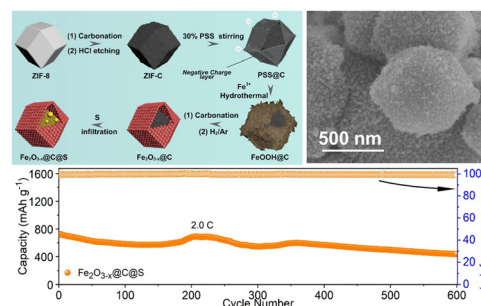
Anandhakumar Sukeri, Swati Panigrahi and Kothandaraman Ramanujam\*



180

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

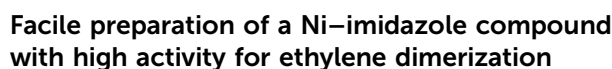
Jun Pu,\* Ziyang Huang, Jie Wang,\* Yun Tan, Shanshan Fan and Zhenghua Wang





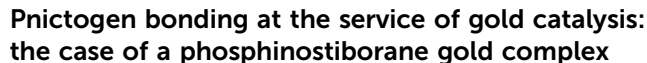
Hefeng Yuan,\* Bohao Kong, Zhehao Liu, Li Cui and  
Xiaoquang Wang\*

188



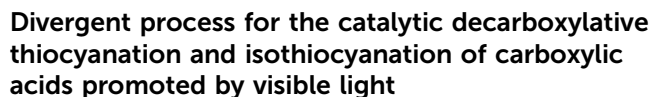
Zhaohui Liu, Guanxing Li, Mohammed R. Alalouni,  
Ziyin Chen, Xinglong Dong,\* Jianjian Wang and  
Cailing Chen\*

192



Benyu Zhou, Shantabh Bedajna and François P. Gabbai\*

196



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

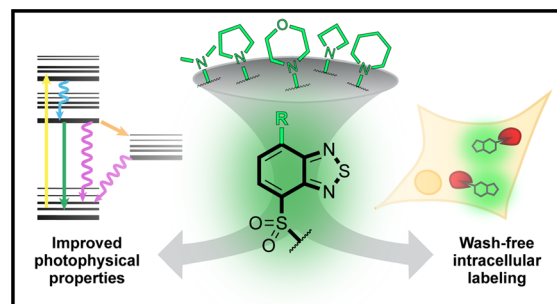


## COMMUNICATIONS

200

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

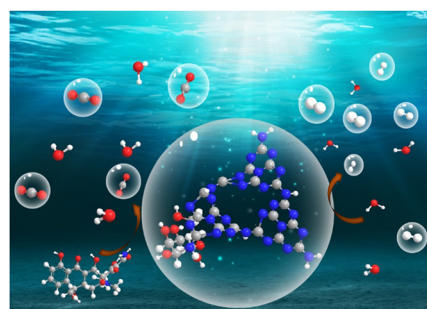
Bryan J. Lampkin\* and Joshua A. Kritzer\*



204

**Critical role of hydrogen bonding between microcrystalline cellulose and g-C<sub>3</sub>N<sub>4</sub> enables highly efficient photocatalysis**

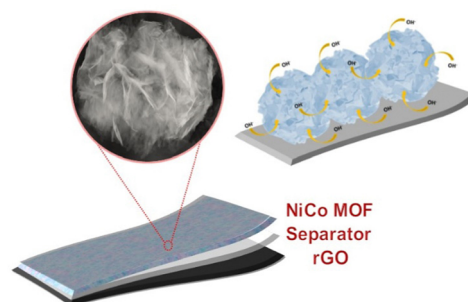
Zhaoqiang Wang, Guixiang Ding, Juntao Zhang, Xianqing Lv, Peng Wang, Li Shuai, Chunxue Li,\* Yonghao Ni\* and Guangfu Liao\*



208

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

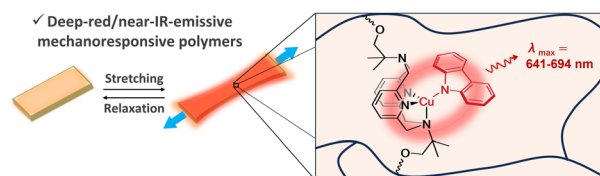
T. B. Naveen, D. Durgalakshmi,\* S. Balakumar and R. Ajay Rakkesh\*



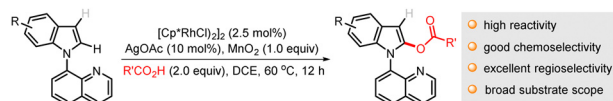
212

**Deep-red photoluminescent mechanoresponsive polymers with dynamic Cu<sup>I</sup>-arylamide mechanophores**

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



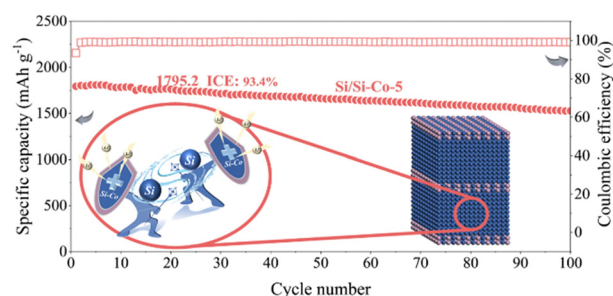
216



### 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\*

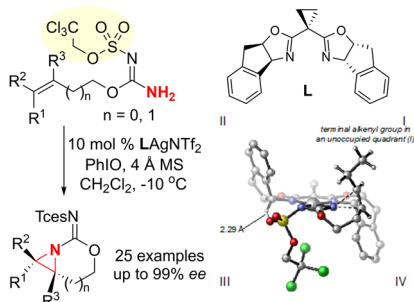
220



### 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\*

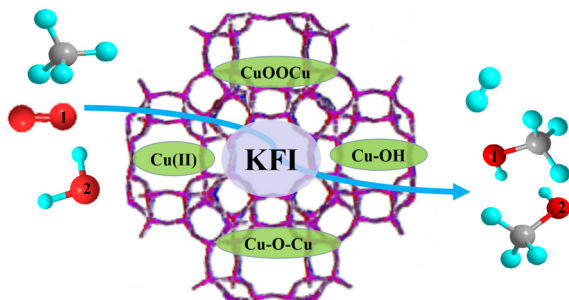
224



### Chemo- and enantioselective intramolecular silver-catalyzed aziridinations of carbamimidates

Tuan Anh Trinh, Yue Fu, Derek B. Hu, Soren A. Zappia, Ilia A. Guzei, Peng Liu and Jennifer M. Schomaker\*

228



### 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\*



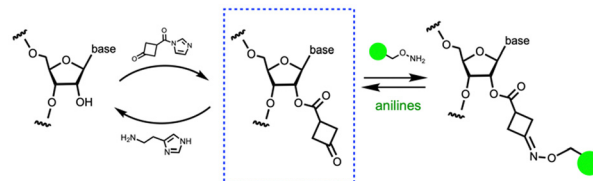


## COMMUNICATIONS

232

### Efficient post-synthesis incorporation and conjugation of reactive ketones in RNA via 2'-acylation

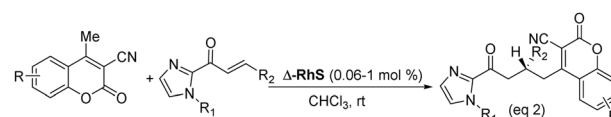
Ryuta Shioi, Lu Xiao, Linglan Fang and Eric T. Kool\*



236

### 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

