

# ChemComm

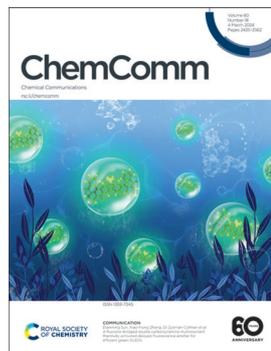
Chemical Communications

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## IN THIS ISSUE

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### Cover

See Dianming Sun,  
Xiao-Hong Zhang,  
Eli Zysman-Colman *et al.*,  
pp. 2489–2492.  
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Sen Wu and  
Eli Zysman-Colman from  
*Chem. Commun.*,  
2024, 60, 2489.

## PROFILE

2434

### Contributors to the Emerging Investigators collection 2023: Part 3

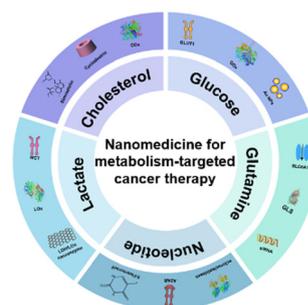


## HIGHLIGHTS

2442

### Recent advances in nanomedicine for metabolism-targeted cancer therapy

Jun Da, XinJia Di, YuQi Xie, JiLi Li, LiLi Zhang\* and YanLan Liu\*



# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access



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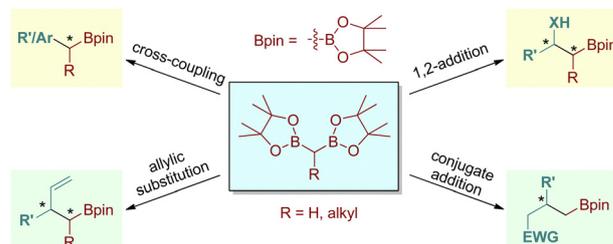
Fundamental questions  
Elemental answers

## HIGHLIGHTS

2462

## Recent progress in the catalytic enantioselective reactions of 1,1-diborylalkanes

Xin Li, Jinglong Chen\* and Qiuling Song\*

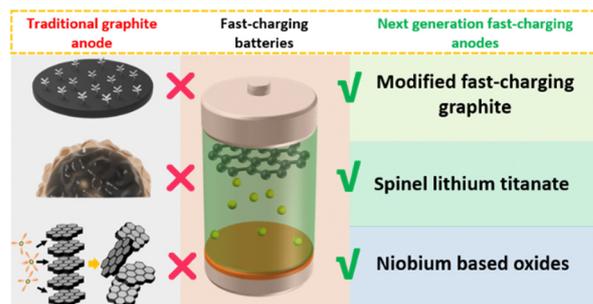


## FEATURE ARTICLE

2472

## Fast-charging anodes for lithium ion batteries: progress and challenges

Xiaobo Ding, Qingfeng Zhou, Xiaodan Li and Xunhui Xiong\*

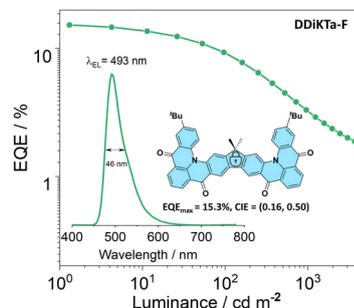


## COMMUNICATIONS

2489

## A fluorene-bridged double carbonyl/amine multiresonant thermally activated delayed fluorescence emitter for efficient green OLEDs

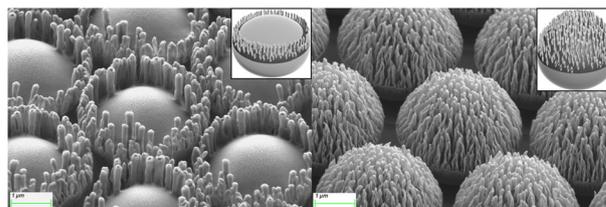
Sen Wu, Ya-Nan Hu, Dianming Sun,\* Kai Wang, Xiao-Hong Zhang\* and Eli Zysman-Colman\*



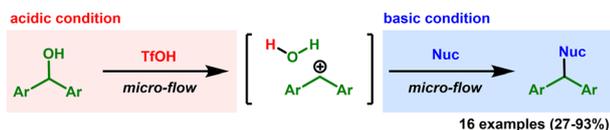
2493

## Polystyrene microspheres with ultra-rough surfaces engineered using RIE technique and applied using SERS

Jizhe Song, Sujuan Feng,\* Haonan Shi, Daotong Han and Guangqiang Liu\*



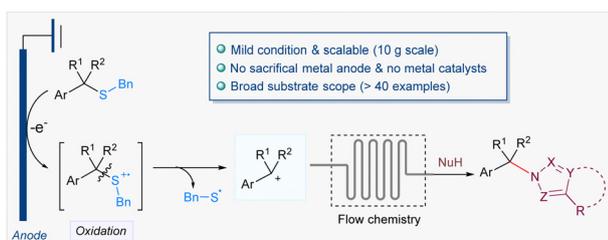
2497



### Micro-flow heteroatom alkylation via TfOH-mediated rapid *in situ* generation of carbocations and subsequent nucleophile addition

Yuma Matsuura and Shinichiro Fuse\*

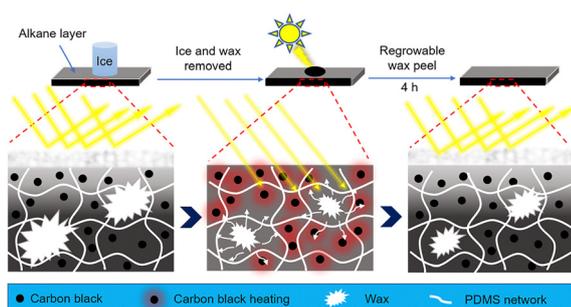
2501



### Electrochemical desulfurative formation of C–N bonds through selective activation of inert C(sp<sup>3</sup>)–S bonds

Shaopeng Guo, Yujun Li, Qing-Han Li\* and Ke Zheng\*

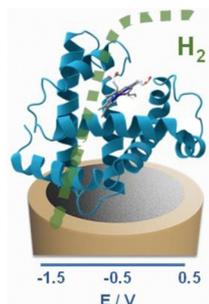
2505



### Photo-thermal waxgels with fast wax layer regeneration ability for anti-icing

Xiang Wang, Lingling Zhang, Yuehua Zhao, Huili Ren, Yiming Liu, Jie Ju\* and Xi Yao\*

2509



### Hydrogen bioelectrogeneration with pH-resilient and oxygen-tolerant cobalt apoenzyme-saccharide

Rodrigo M. Iost, Radhakrishnan Venkatkarthick, Steffane Q. Nascimento, Fabio H. B. Lima and Frank N. Crespilho\*

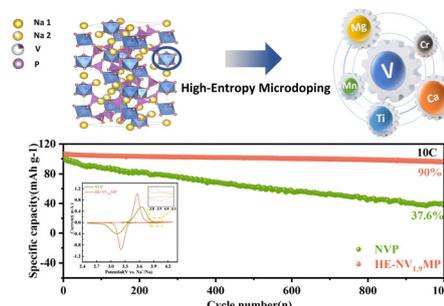


## COMMUNICATIONS

2512

Synergetic impact of high-entropy microdoping modification in  $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ 

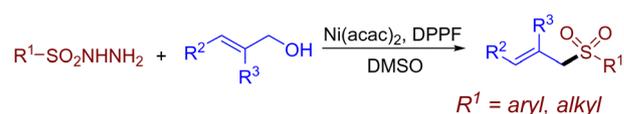
Yahao Kang, Xitao Lin, Shuai Tong, Wenlong Zhu, Yang Wang, Min Jia\* and Xiaoyu Zhang\*



2516

## Neutral nickel-catalyzed dehydrosulfonylation of unactivated allylic alcohols under mild conditions

Yahui Yang, Haibo Zhu,\* Bozhen Gong, Hong Yang, Qiangwen Fan,\* Zhang-Gao Le and Zongbo Xie\*

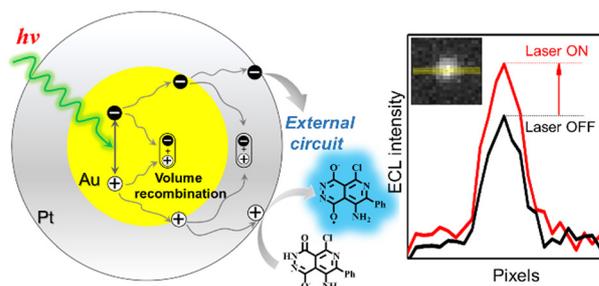


- Broad substrate scope
- Low-cost and effective catalysis
- 30 examples
- Mild conditions

2520

## Electrogenerated chemiluminescence imaging of plasmon-induced electrochemical reactions at single nanocatalysts

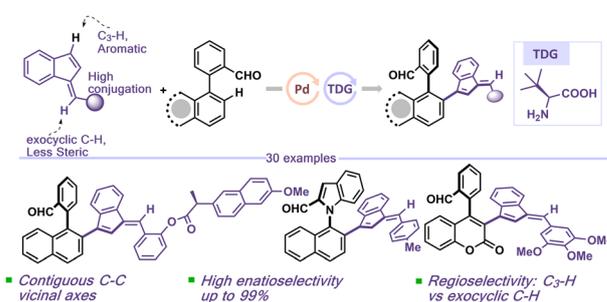
Qian-Qian Tao, Cong-Hui Xu, Wei Zhao,\* Hong-Yuan Chen and Jing-Juan Xu\*



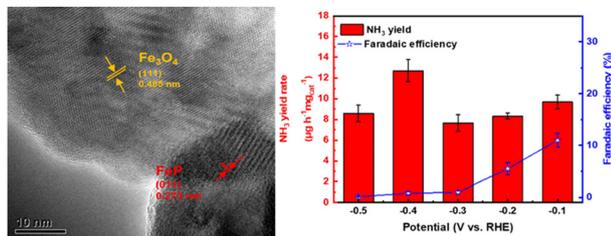
2524

## Asymmetric 1,2-diaxial synthesis of bi-(hetero)aryl benzofulvene atropisomers via transient directing group-assisted dehydrogenative coupling

Soumyadip Hore, Abhijeet Singh and Ravi P. Singh\*



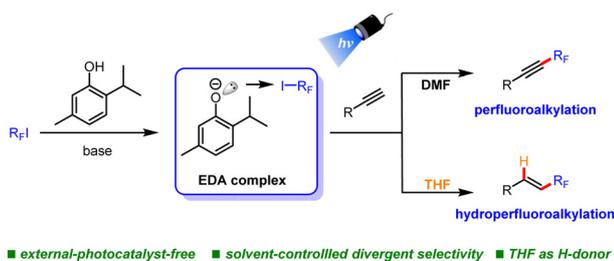
2528



### FeP–Fe<sub>3</sub>O<sub>4</sub> nanospheres for electrocatalytic N<sub>2</sub> reduction to NH<sub>3</sub> under ambient conditions

Huanhuan Zhang, Shuhao Yan, Wei Yi,\* Yebo Lu,\*  
Xiao Ma, Yu Bin, Lanhua Yi\* and Xingzhu Wang\*

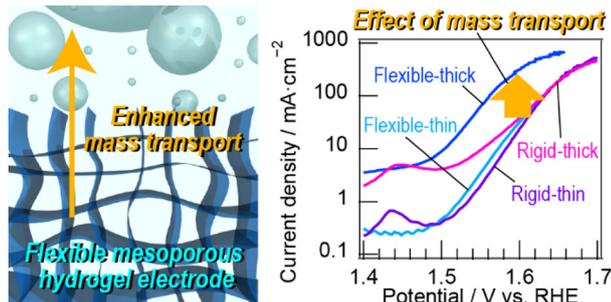
2532



### Photoinduced selective perfluoroalkylation of terminal alkynes via electron donor–acceptor complexes

Xiaolin Shi, Bo Yu, Xin Zhou and Yong Yang\*

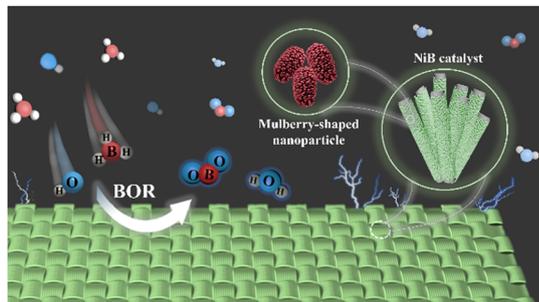
2536



### Mesoporous hydrogel electrodes with flexible frameworks exhibiting enhanced mass transport for the oxygen evolution reaction

Ritsuki Nakajima, Hiroki Wago, Tatsuya Taniguchi,  
Yuta Sasaki, Yoshinori Nishiki, Zaenal Awaludin,  
Takaaki Nakai, Akihiro Kato, Shigenori Mitsushima and  
Yoshiyuki Kuroda\*

2540



### A superior mulberry-like nanoparticle NiB binary catalyst for borohydride oxidation

Jinliang Cai, Caini Yi, Yuxin Xie, Ying Yang, Hang Yang,  
Yuping Liu, Changguo Chen, Danmei Yu\* and  
Xiaoyuan Zhou\*

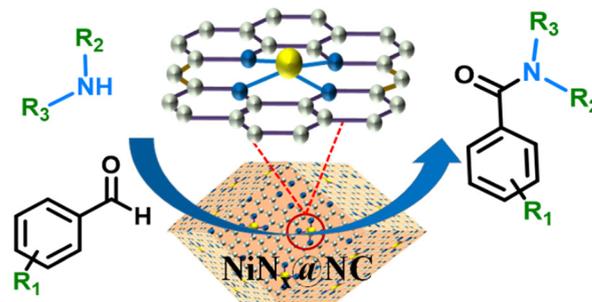


## COMMUNICATIONS

2544

### The low loading of metal in metal–organic framework-derived $\text{NiN}_x@ \text{NC}$ promotes amide formation through C–N coupling

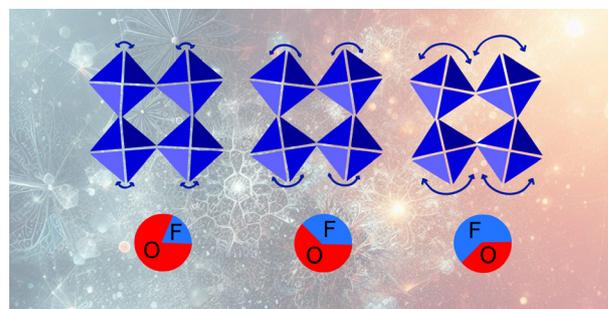
Ved Vyas, Vishesh Kumar and Arindam Indra\*



2548

### Mixed anion control of negative thermal expansion in a niobium oxyfluoride

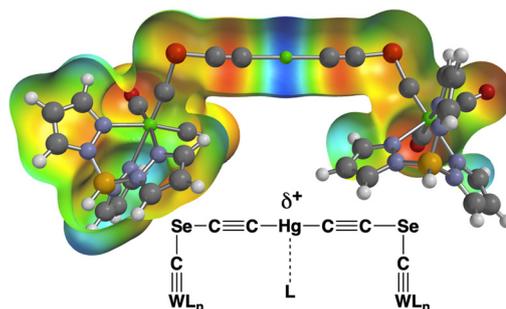
Eliza K. Dempsey and James Cumby\*



2552

### Spodium bonding in bis(alkynyl)mercurials

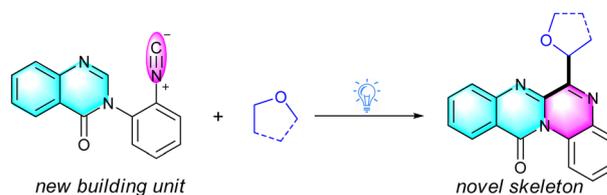
Chee S. Onn, Anthony F. Hill\* and Jas S. Ward



2556

### Photocatalytic cyclization of 3-(2-isocyanophenyl)quinazolin-4(3H)-ones for the construction of quinoxalino[2,1-b]quinazolinones

Xian Wu, Lingli Liu, Chengli Xiang, Jin-Tao Yu\* and Changduo Pan\*



- new radical acceptor for novel quinoxalino[2,1-*b*]quinazolinone skeleton
- metal-free, room temperature
- radical C(sp<sup>3</sup>)-H cleavage
- addition of imidoyl radical to the electro-deficient C=N bond

