

# ChemComm

Chemical Communications

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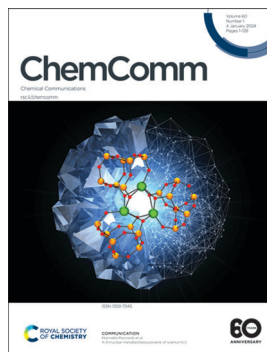
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ISSN 1359-7345 CODEN CHCOFS 60(1) 1-128 (2024)



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See Jesús Cases Díaz and Mónica Giménez-Marqués, pp. 51–54.  
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### Inside cover

See Marinella Mazzanti et al., pp. 55–58.  
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## HIGHLIGHT

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### Structure–activity strategies for mechanically responsive fluorescent materials: a molecular perspective

Guiqiang Fei, Shaoqi Li, Yuxia Liu, Jared B. Carney, Tao Chen, Yulin Li,\* Xiaoyong Gao, Ji Chen, Pu Chen, Yanfeng Yue,\* Kai Bao,\* Bo Tang\* and Guang Chen\*

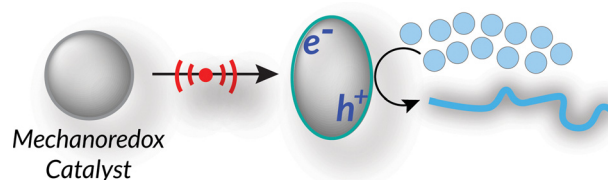


## FEATURE ARTICLES

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### Shake, shear, and grind! – the evolution of mechanoredox polymerization methodology

Sarah M. Zeitler and Matthew R. Golder\*



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Elemental answers

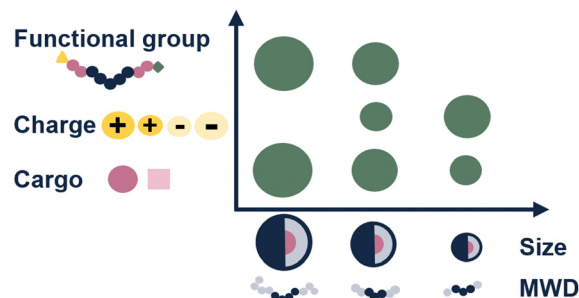


## FEATURE ARTICLES

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### Sample transformation in online separations: how chemical conversion advances analytical technology

Annika A. M. van der Zon, Joshka Verduin,  
Rick S. van den Hurk, Andrea F. G. Gargano and  
Bob W. J. Pirok\*

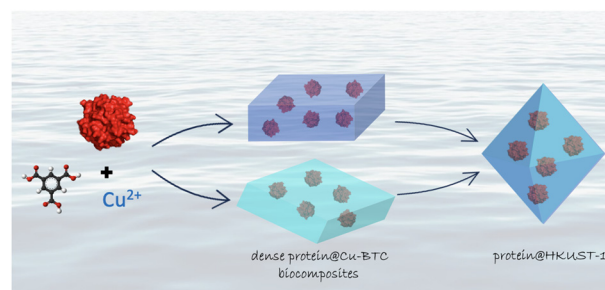


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### Alternative protein encapsulation with MOFs: overcoming the elusive mineralization of HKUST-1 in water

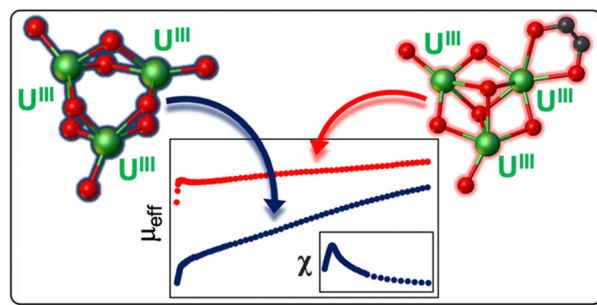
Jesús Cases Díaz and Mónica Giménez-Marqués\*



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### A trinuclear metallasilsesquioxane of uranium(III)

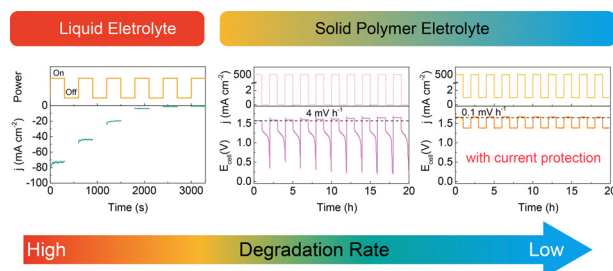
Maxime Tricoire, Nadir Jori, Farzaneh Fadaei Tirani,  
Rosario Scopelliti, Ivica Živković, Louise S. Natrajan and  
Marinella Mazzanti\*



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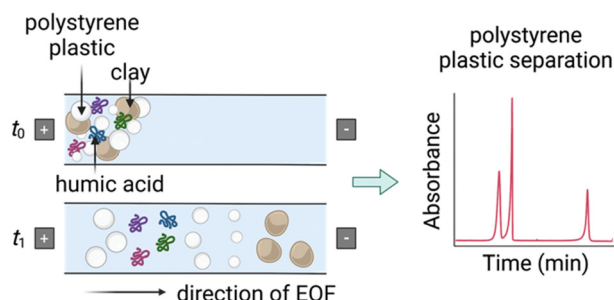
### Exploring the degradation mechanism of nickel–copper–molybdenum hydrogen evolution catalysts during intermittent operation

Shengxiong Yang, Zhihan Liu, Pengcheng Wan,  
Liangsheng Liu, Yimin Sun, Fei Xiao,\* Shuai Wang\* and  
Junwu Xiao\*



## COMMUNICATIONS

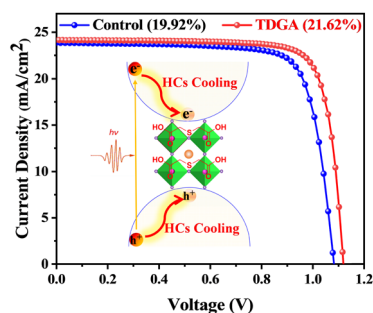
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### Quantitative separation of polystyrene nanoparticles in environmental matrices with picogram detection limits using capillary electrophoresis

Michael A. Caprise, Ana C. Quevedo and Kathryn R. Riley\*

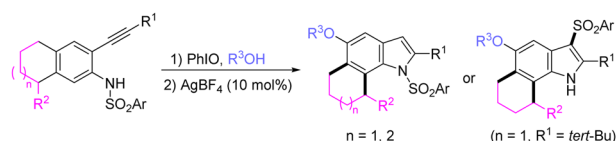
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### Additive effect on hot carrier cooling in a hybrid perovskite

Yuanju Zhao, Peng Wang, Tai Wu, Rongjun Zhao,\* Lin Xie\* and Yong Hua\*

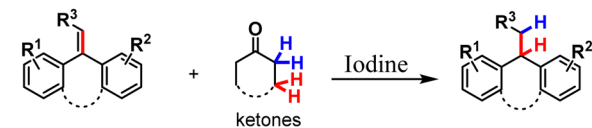
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### Cascade alkyl migration in 2-alkynylanilines for the synthesis of benzenoid ring multi-functionalized indoles

Jiwen He, Xiaohua Li, Qiuqin He\* and Renhua Fan\*

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♦ Metal-free transfer hydrogenation ♦ Ketones as novel hydrogen donors

### Iodine-promoted transfer of dihydrogen from ketones to alkenes, triphenylmethyl, and diphenylmethyl derivatives

Yiping Duan, Wenyi Zhong, Zhaolan Zeng, Jiajie Feng, Jinyi Xu,\* Fulai Yang\* and Jie Liu\*



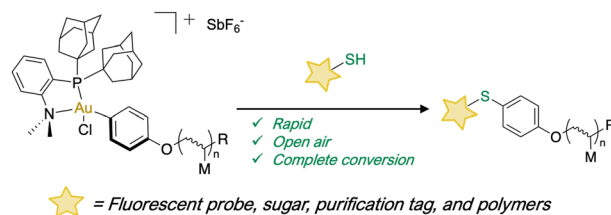


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## Efficient end-group functionalization and diblock copolymer synthesis via Au(III) polymer reagents

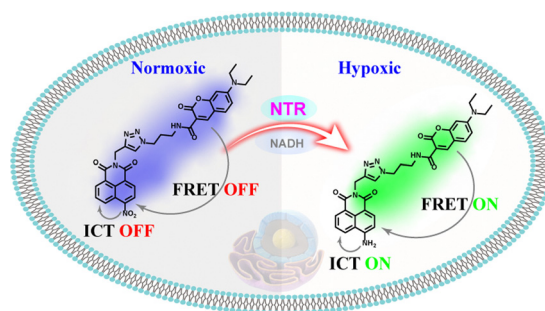
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Alexander M. Spokoyny and Heather D. Maynard\*



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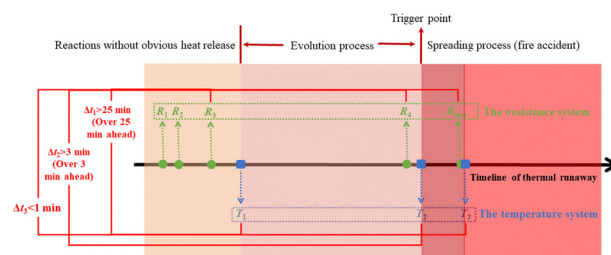
Yumei Xu,\* Bing Hu, Yanjun Cui, Li Li, Fang Nian,  
Zhixia Zhang and Wenting Wang



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## Early warning technology for common characteristic resistances of lithium-ion batteries with thermal runaway

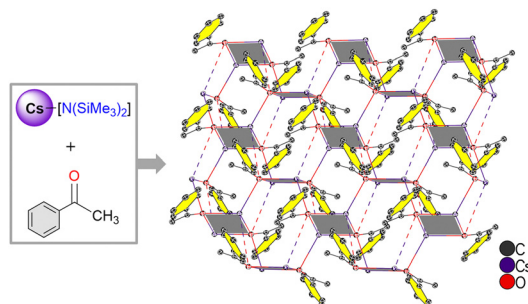
Zhigao Yang, Zhengjian Gu, Qianyi Tao, Jun Bao,  
Huanhuan Li\* and Shengping Wang\*



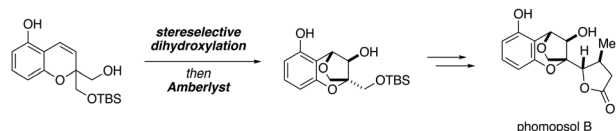
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## Isolable rubidium and caesium derivatives of common organic carbonyl compounds

Jakoba Wacker, Jennifer R. Lynch, Sumanta Banerjee,  
Peter A. Macdonald, Alan R. Kennedy, Biprajit Sarkar and  
Robert E. Mulvey\*



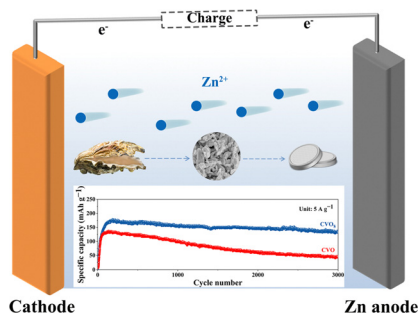
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### Total synthesis of highly oxygenated phomopsol B via acid-induced etherification to construct a bridged structure

Yuichiro Kawamoto,\* Ayaka Nishitani, Yukari Yoshimura, Toyoharu Kobayashi and Hisanaka Ito\*

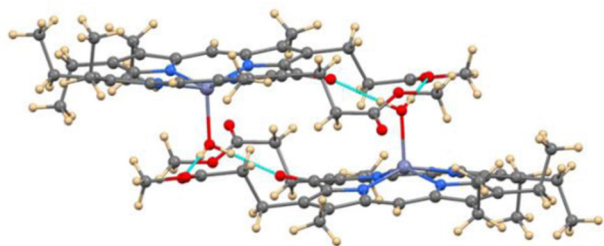
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### Spent shell as a calcium source for constructing calcium vanadate for high-performance Zn-ion batteries

Ningze Gao, Feng Li, Zhiyuan Wang, Xianghua Kong, Lei Wang, Yuanxiang Gu\* and Maojuan Bai\*

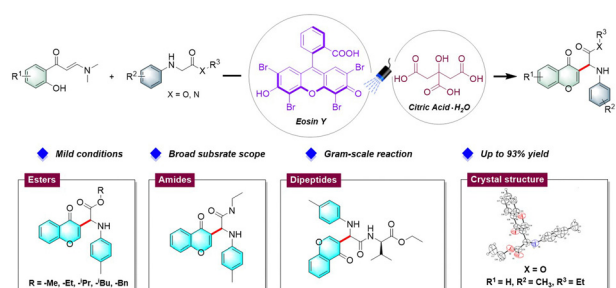
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Lorena Di Zazzo, Sara Nardis,\* Fabrizio Caroleo, Francesco Pizzoli, Frank R. Fronczek, Kevin M. Smith, Beatrice Berionni Berna and Roberto Paolesse

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### Visible-light-enabled cascade cross-dehydrogenative-coupling/cyclization to construct $\alpha$ -chromone substituted $\alpha$ -amino acid derivatives

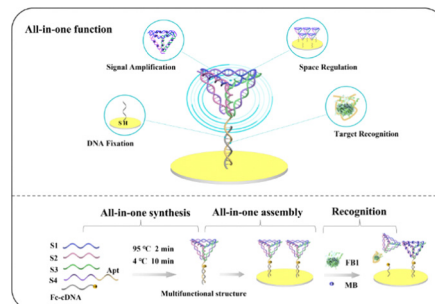
Zhi-Qiang Zhu,\* Jia-Yu Hu, Zong-Bo Xie and Zhang-Gao Le\*



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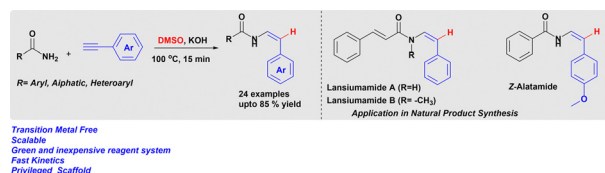
Na Dong, Shuda Liu, Yuye Li, Shuyun Meng, Yifan Liu, Xia Li, Dong Liu\* and Tianyan You\*



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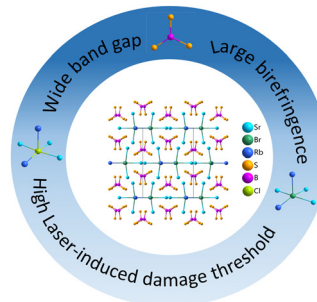
Showkat Ahmad Bhat, Qazi Naveed Ahmed\* and Khursheed Ahmad Bhat\*



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Yihan Yun, Xueling Hou, Zhihua Yang, Guangmao Li\* and Shilie Pan\*



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### Facile one-step synthesis of mesoporous Pt-based alloy nanospheres for ethanol electrooxidation

Ruyi Wang, Shichun Gu, Dexiang Li, Chaoman Wang, Chongyuan Zhai, Yu Sun, Xue Wang,\* Hui Huang, Zhongcheng Guo and Yapeng He\*

