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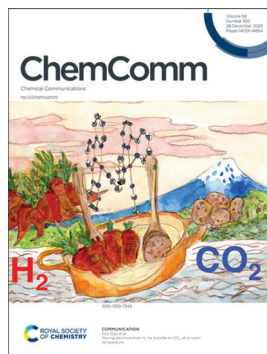
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See Seiji Ogo *et al.*, pp. 14795–14798. Image reproduced by permission of Seiji Ogo from *Chem. Commun.*, 2023, 59, 14795.

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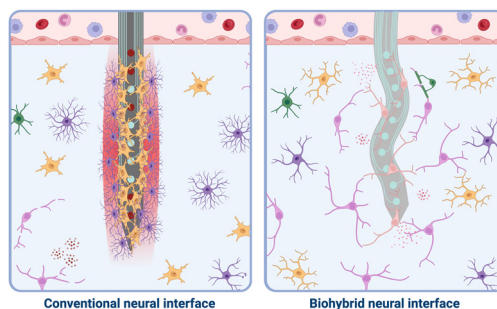


FEATURE ARTICLES

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Biohybrid neural interfaces: improving the biological integration of neural implants

Marjolaine Boulingre, Roberto Portillo-Lara and Rylie A. Green*



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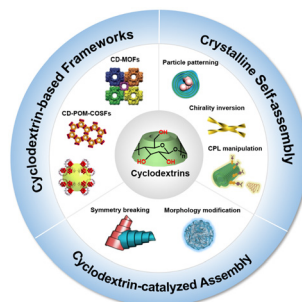


FEATURE ARTICLES

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New opportunities for cyclodextrins in supramolecular assembly: metal organic frameworks, crystalline self-assembly, and catalyzed assembly

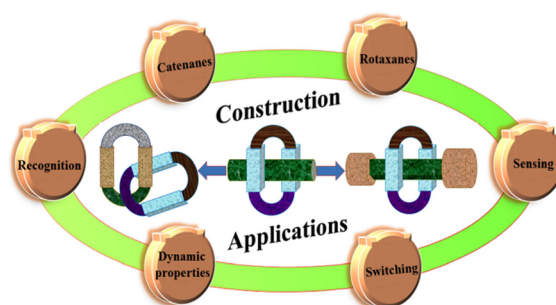
Ting Gu, Jianbin Huang* and Yun Yan*



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From construction to application of a new generation of interlocked molecules composed of heteroditopic wheels

Mandira Nandi, Somnath Bej, Tarun Jana and Pradyut Ghosh*

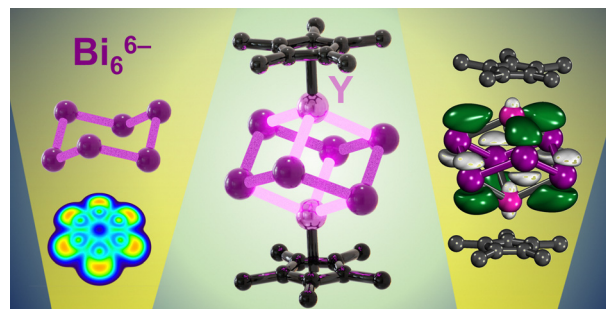


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Isolation of an organometallic yttrium bismuth cluster and elucidation of its electronic structure

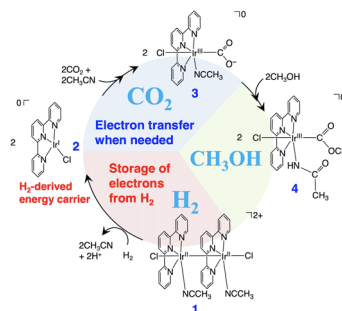
Elizabeth R. Pugliese, Florian Benner and Selvan Demir*



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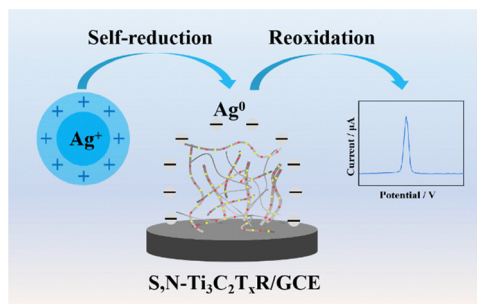
Storing electrons from H₂ for transfer to CO₂, all at room temperature

Daiki Shimauchi, Takeshi Yatabe, Yuka Ikesue, Yuu Kajiwara, Taro Koide, Tatsuya Ando, Ki-Seok Yoon, Hidetaka Nakai and Seiji Ogo*



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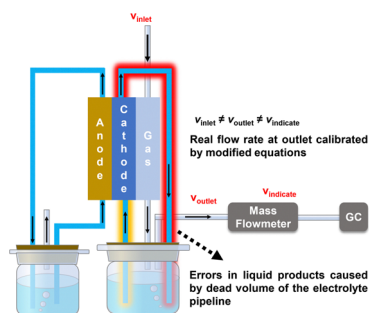
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A proof-of-concept electroreduction-free anodic stripping voltammetry analysis of Ag(I) based on S,N-Ti₃C₂T_x MXene nanoribbons

Yifan Zhou, Yinhui Yi, Yong He and Gangbing Zhu*

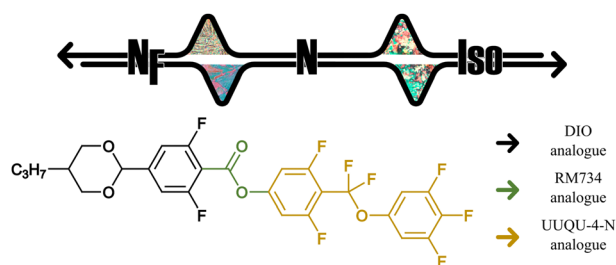
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Accurate assessment of electrocatalytic carbon dioxide reduction products at industrial-level current density

Xin Zi, Qiuwen Liu, Li Zhu, Qin Chen, Xiangqiong Liao, Ziwen Mei, Xiaojian Wang, Xiqing Wang, Kang Liu, Junwei Fu* and Min Liu*

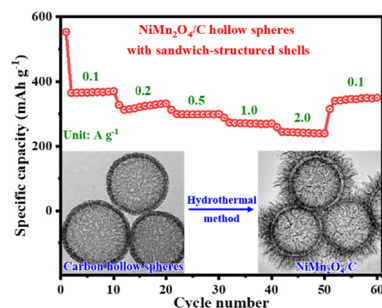
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Enantiotropic ferroelectric nematic phase in a single compound

Jakub Karcz,* Natan Rychłowicz, Matgorzata Czarnecka, Antoni Kocot, Jakub Herman and Przemysław Kula

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Fabrication of NiMn₂O₄/C hollow spheres with a trilaminar shell structure as an anode material for sodium-ion batteries

Tao Liu, Xuejie Wang, Yang Han, Yingqi Wu, Liuyang Zhang* and Jiaguo Yu*

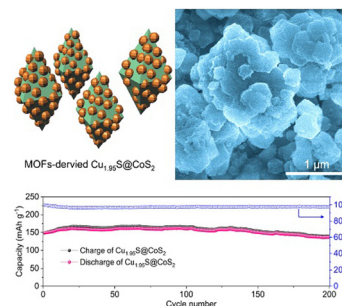


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A metal organic framework-derived octahedral $\text{Cu}_{1.95}\text{S}@\text{CoS}_2$ for secondary batteries displaying long cycle life and stable temperature tolerance

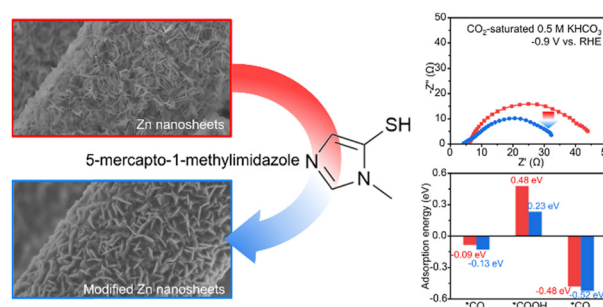
Tianli Han,* Haiyuan Bai, Jing Xu, Yajun Zhu, Xirong Lin and Jinyun Liu*



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Organic molecule-assisted intermediate adsorption for conversion of CO_2 to CO by electrocatalysis

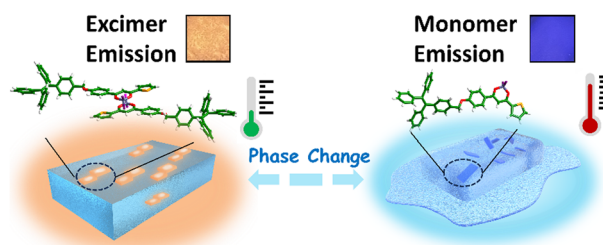
Kai Zhang, Wenyuan Wang, Ying Wang, Wenhui Wang, Nanyang Wang, Jun Pu, Qiulong Li and Yagang Yao*



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An ultra-sensitive ratiometric fluorescent thermometer based on monomer and excimer dual emission

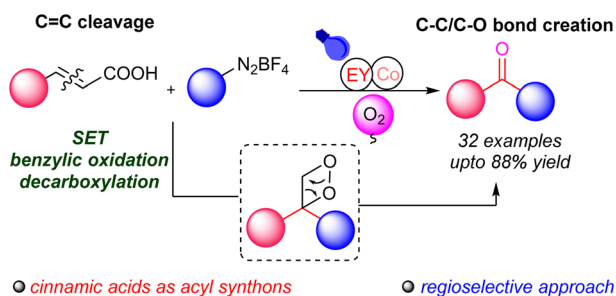
Weixu Feng,* Yanhui Wu, Dong Chen, Sumin Lu, Yan Zhao and Hongxia Yan*



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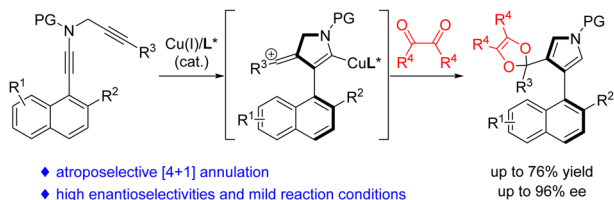
Synthesis of unsymmetrical ketones via dual catalysed cross-coupling of α,β -unsaturated carboxylic acids with aryldiazonium salts

Shiv Chand, Anup Kumar Sharma, Anand Kumar Pandey and Krishna Nand Singh*



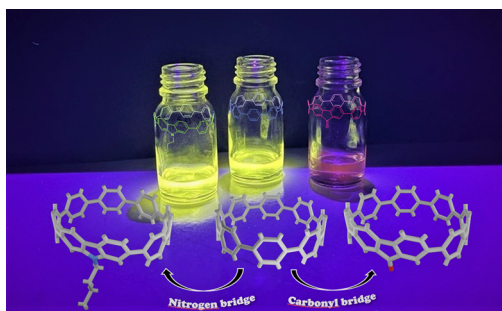
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**Copper-catalyzed atroposelective formal [4+1] annulation of 1,2-diketones with vinyl cations**

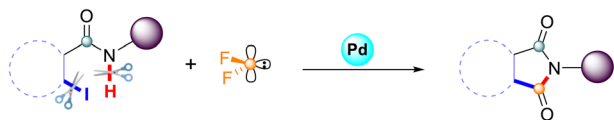
Ze-Shu Wang, Hao-Jin Xu, Yang-Bo Chen, Long-Wu Ye,* Bo Zhou* and Peng-Cheng Qian*

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**Modulation of [8]CPP properties by bridging two phenylene units**

Denis Ari, Elodie Dureau, Olivier Jeannin, Joëlle Rault-Berthelot, Cyril Poriol and Cassandre Quinton*

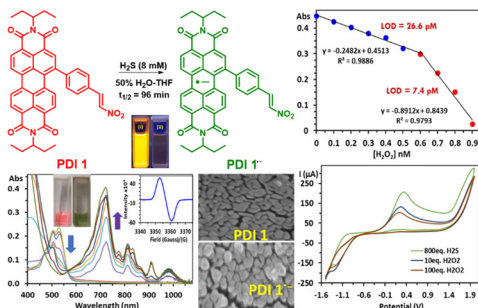
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**Synthesis of *N*-substituted phthalimides via Pd-catalyzed [4+1] cycloaddition reaction**

Chengxian Hu, Lu Wang, Yuanyuan Wu, Yonglong Zheng, Ying Fu* and Zhengyin Du*

- Good group tolerances
- Up to 96% yield
- 37 Examples
- Transition-metal catalyzed difluorocarbene transfer carbonylation
- Wide scope of substrates
- Gram scale synthesis

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**Perylene diimide-based radical anions for the rapid detection of picomolar H_2O_2 in an aqueous medium**

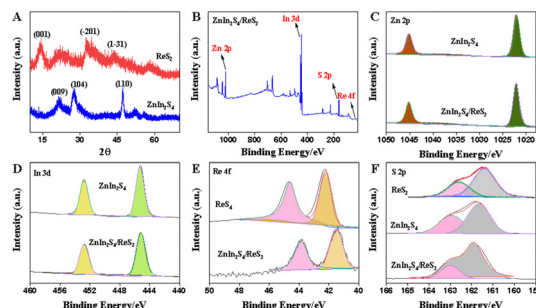
Navdeep Kaur, Sagar Sardana, Aman Mahajan, Subodh Kumar and Prabhpreet Singh*



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A $\text{ZnIn}_2\text{S}_4/\text{ReS}_2/\text{AgInS}_2$ -based photoelectrochemical aptasensor for the ultrasensitive detection of kanamycin

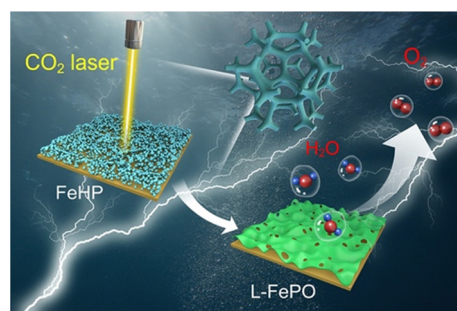
Xing-Pei Liu, Yuan-Yuan Tang, Jing-Shuai Chen, Chang-Jie Mao* and Bao-Kang Jin



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Laser-induced immobilization of an amorphous iron-phosphate/ Fe_3O_4 composite on nickel foam for efficient water oxidation

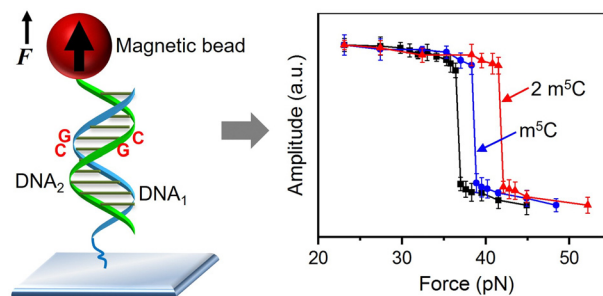
Yan Zou, Man Jin, Dongdong Zhu and Yu-Jia Tang*



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DNA methylation induces subtle mechanical alteration but significant chiral selectivity

Yi Zeng, Yujia Mao, Yanjun Chen, Yuhong Wang* and Shoujun Xu*



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Photocatalytic $\text{C}(\text{sp}^3)\text{-H}$ thiolation by a double $\text{S}_{\text{H}}2$ strategy using thiosulfonates

Nobukazu Taniguchi,* Mamoru Hyodo,* Lin-Wei Pan and Ilhyong Ryu*

