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IN THIS ISSUE

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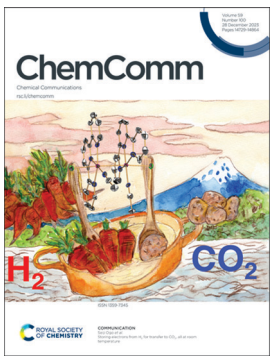

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FEATURE ARTICLES

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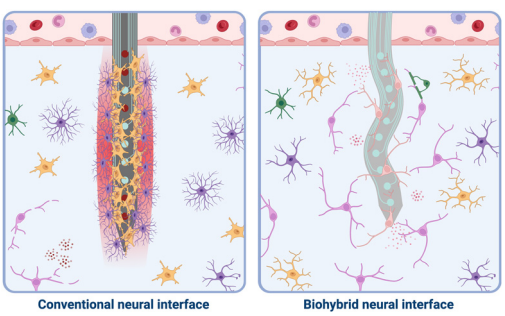
Biohybrid neural interfaces: improving the biological integration of neural implants

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



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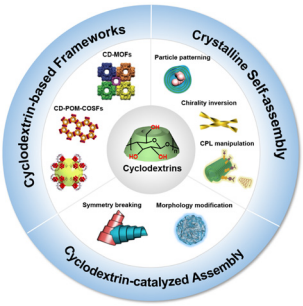
New opportunities for cyclodextrins in supramolecular assembly: metal organic frameworks, crystalline self-assembly, and catalyzed assembly

Ting Gu, Jianbin Huang* and Yun Yan*



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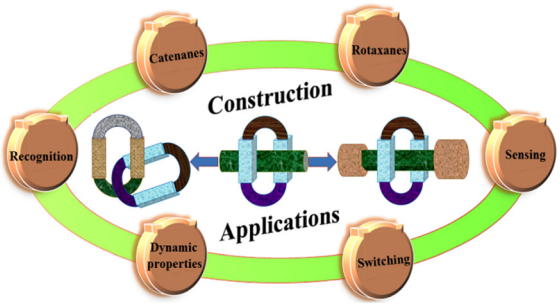
From construction to application of a new generation of interlocked molecules composed of heteroditopic wheels

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



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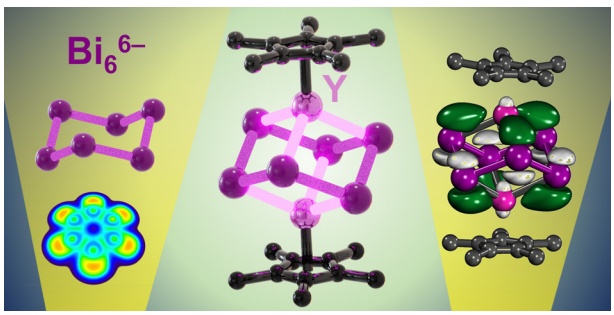
14791

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

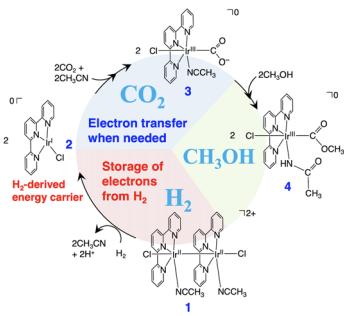
Elizabeth R. Pugliese, Florian Benner and Selvan Demir*



14795

Storing electrons from H_2 for transfer to CO_2, 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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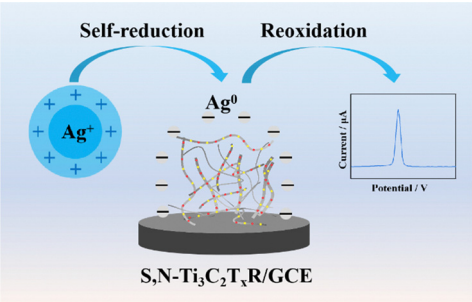
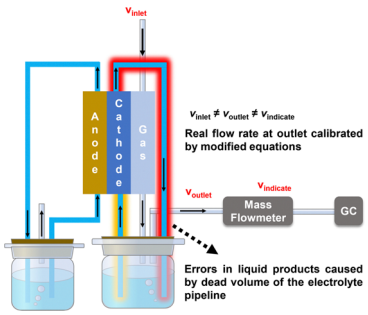


A proof-of-concept electroreduction-free anodic stripping voltammetry analysis of Ag(I) based on S,N–$Ti_3C_2T_x$ MXene nanoribbons

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

14803



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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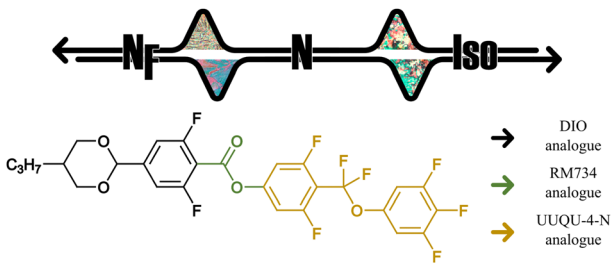

Enantiotropic ferroelectric nematic phase in a single compound

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

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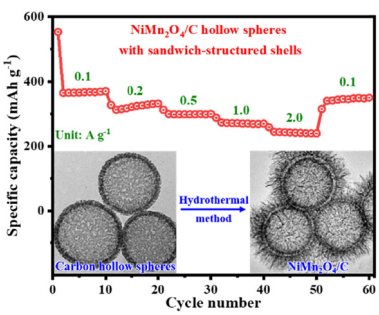

Fabrication of $NiMn_2O_4$/C hollow spheres with a trilaminar shell structure as an anode material for sodium-ion batteries

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

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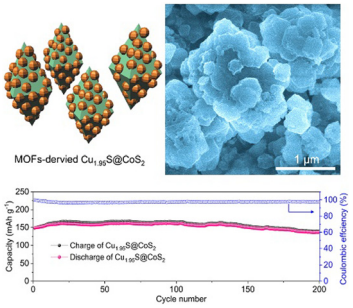
A metal organic framework-derived octahedral $Cu_{1.95}S@CoS_2$ for secondary batteries displaying long cycle life and stable temperature tolerance

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



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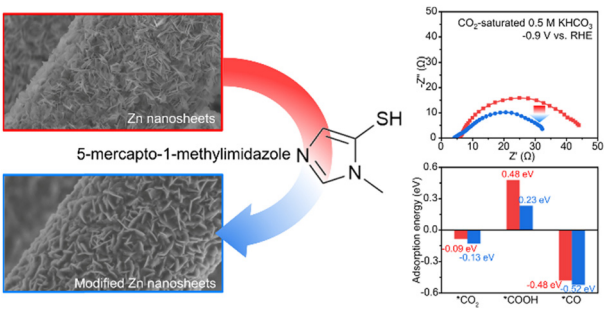
Organic molecule-assisted intermediate adsorption for conversion of CO_2 to CO by electrocatalysis

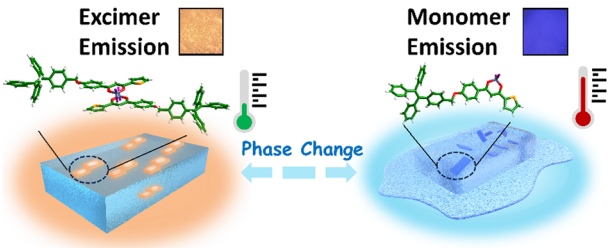
Kai Zhang, Wenyuan Wang, Ying Wang, Wenhui Wang, Nanyang Wang, Jun Pu, Qiulong Li and Yagang Yao*



14823

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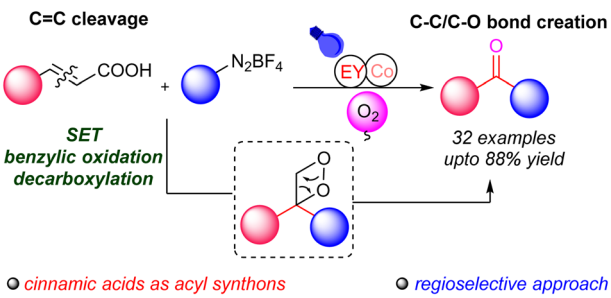
Synthesis of unsymmetrical ketones *via* dual catalysed cross-coupling of α,β-unsaturated carboxylic acids with aryldiazonium salts

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



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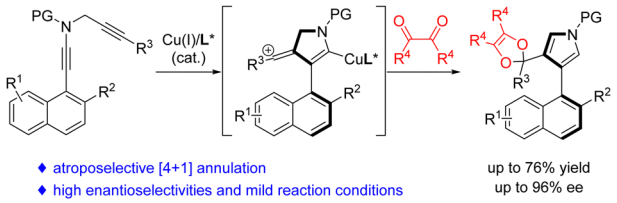

Copper-catalyzed atroposelective formal [4+1] annulation of 1,2-diketones with vinyl cations

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

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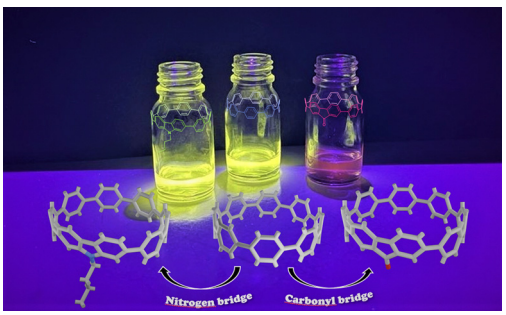

Modulation of [8]CPP properties by bridging two phenylene units

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

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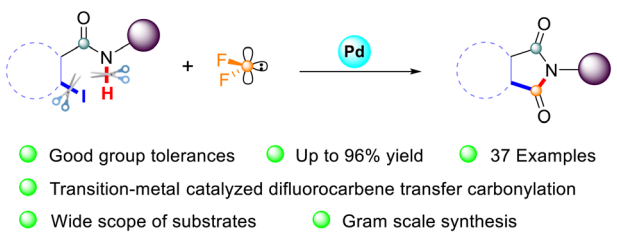
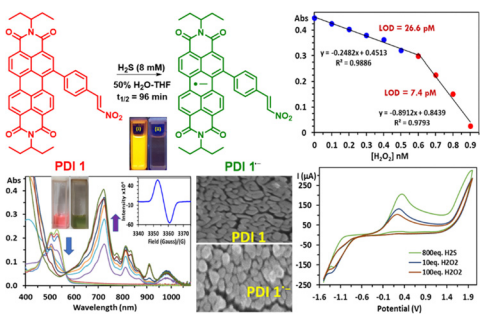


Synthesis of *N*-substituted phthalimides *via* Pd-catalyzed [4+1] cycloaddition reaction

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

14843



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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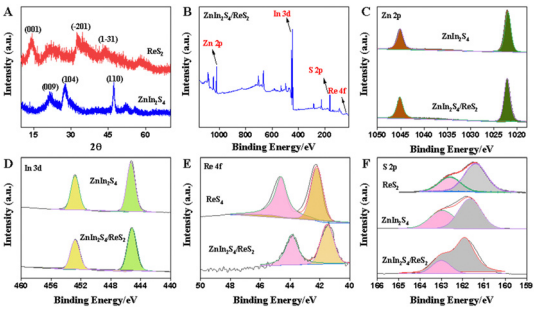
A $ZnIn_2S_4$@ReS_2/$AgInS_2$-based photoelectrochemical aptasensor for the ultrasensitive detection of kanamycin

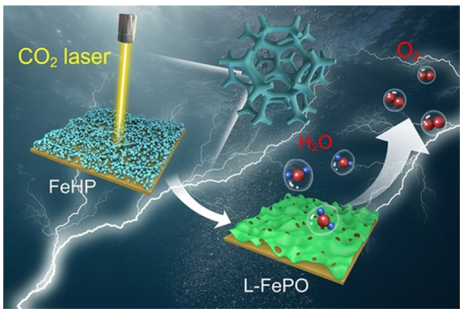
Xing-Pei Liu, Yuan-Yuan Tang, Jing-Shuai Chen, Chang-Jie Mao* and Bao-Kang Jin



14851

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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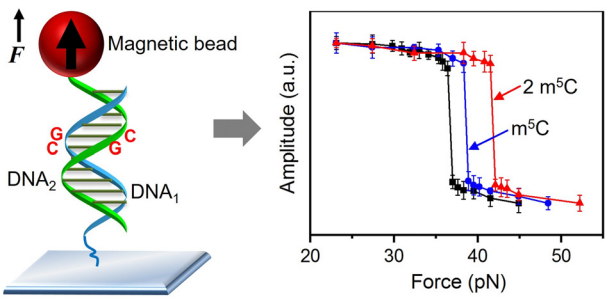
DNA methylation induces subtle mechanical alteration but significant chiral selectivity

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



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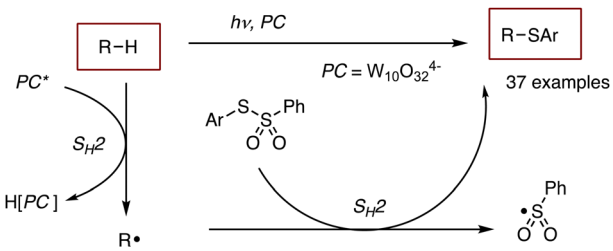
Nobukazu Taniguchi,* Mamoru Hyodo,* Lin-Wei Pan and Ilhyong Ryu*