

IN THIS ISSUE

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Cover

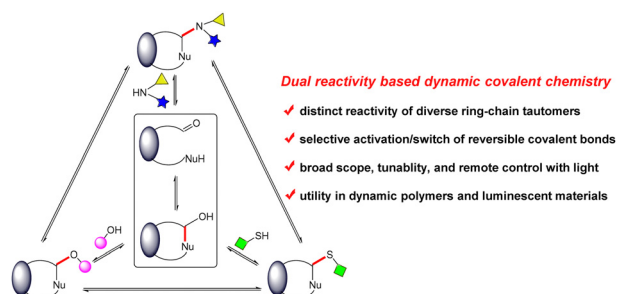
See Tianran Lin, Li Hou, Shulin Zhao *et al.*, pp. 12986-12989. Image reproduced by permission of Tianran Lin from *Chem. Commun.*, 2023, 59, 12986.

FEATURE ARTICLES

12943

Dual reactivity based dynamic covalent chemistry: mechanisms and applications

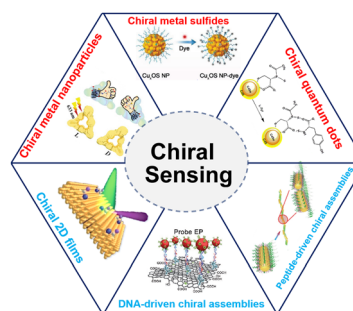
Lei You*



12959

Chiral probes for biosensing

Changlong Hao, Chuanlai Xu* and Hua Kuang



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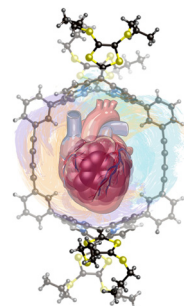


FEATURE ARTICLES

12972

Recent update on the electroactive oligopyrrolic macrocyclic hosts with a Bucky-ball heart

Shubhasree Das, M. Bhargav Sai Naik, Godwin Maliyekkal, Shubhra Bikash Maity and Atanu Jana*

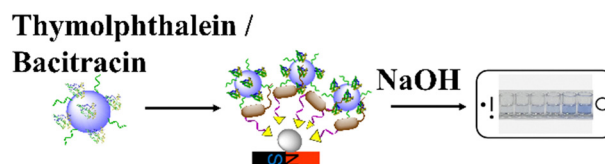


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12986

pH-Triggered visual detection of *Escherichia coli* based on the co-assembly of bacitracin and thymolphthalein

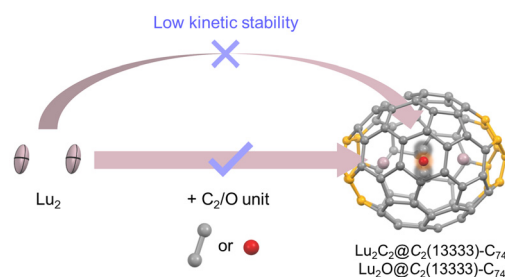
Tianran Lin,* Yunping Lai, Gaoyan Jiang, Xinlian Chen, Li Hou* and Shulin Zhao*



12990

Stabilizing a non-IPR C₂(13333)-C₇₄ cage with Lu₂C₂/Lu₂O: the importance of encaged non-metallic elements

Pengwei Yu, Mengyang Li, Shuaifeng Hu, Changwang Pan, Wangqiang Shen, Kun Guo, Yun-Peng Xie, Lipiao Bao,* Rui Zhang* and Xing Lu*

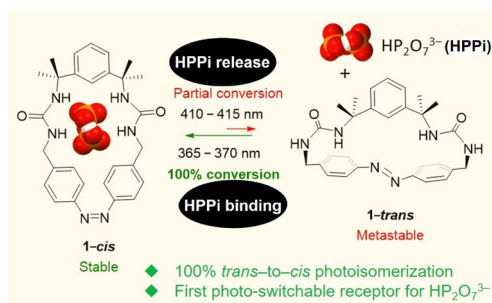


The Importance of Encaged Non-metal Species on Stabilizing Metallofullerenes

12994

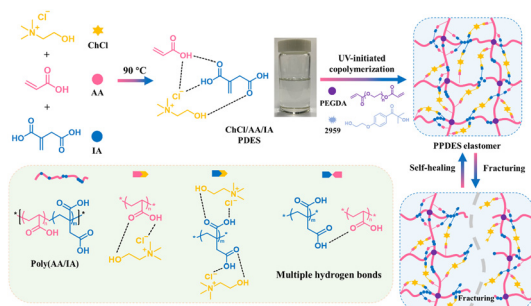
Photo-controllable binding and release of HP₂O₇³⁻ using an azobenzene based smart macrocycle

Shenglun Xiong, Yi Zhang, Yunqi Jiang, Fei Wang, Wei Zhou, Aimin Li, Qinpeng Zhang, Qian Wang and Qing He*



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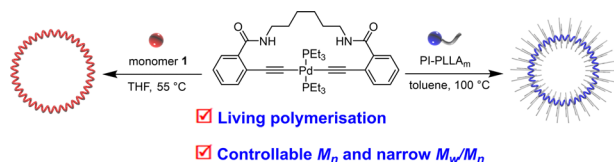
12998



Unexpected mechanically robust ionic conductive elastomer constructed from an itaconic acid-involved polymerizable DES

Yongtian Jin, Jintao Li, Mingzu Zhang, Jinlin He* and Peihong Ni

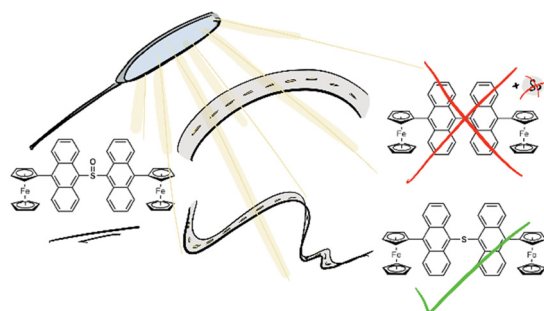
13002



Controlled synthesis of cyclic helical polyisocyanides and bottlebrush polymers using a cyclic alkyne–Pd(II) catalyst

Bing-Hui Duan, Jia-Xin Yu, Run-Tan Gao, Shi-Yi Li, Na Liu* and Zong-Quan Wu*

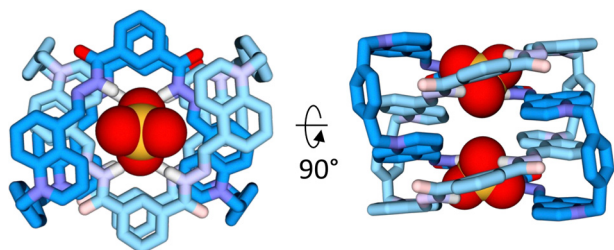
13006



The unexpected effect of ferrocenyl substituents on the photochemistry of dianthryl sulfoxides

Nicole Removski and Michael O. Wolf*

13010



Multiply entangled sulfate receptor

Sulfate-induced large amplitude conformational change in a Solomon link

Cuong Dat Do, Dávid Pál, Andrey Belyaev, Marion Pupier, Anniina Kiesilä, Elina Kalenius, Bartomeu Galmés, Antonio Frontera, Amalia Poblador-Bahamonde and Fabien B. L. Cougnon*

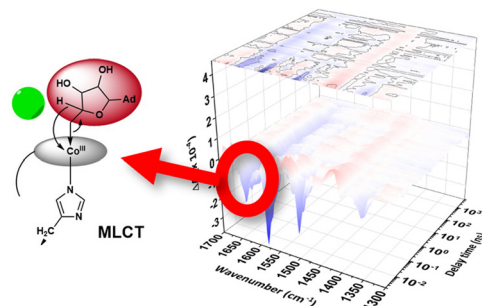


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13014

Tuning of B₁₂ photochemistry in the CarH photoreceptor to avoid radical photoproducts

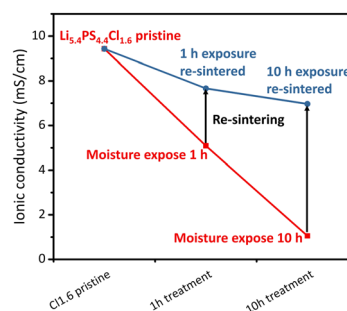
Ines S. Camacho, Emma Wall, Igor V. Sazanovich, Emma Gozzard, Mike Towrie, Neil T. Hunt, Sam Hay and Alex R. Jones*



13018

Re-sintering induced ionic conductivity recovery for air-exposed Li_{5.4}PS_{4.4}Cl_{1.6} argyrodite sulfide electrolyte

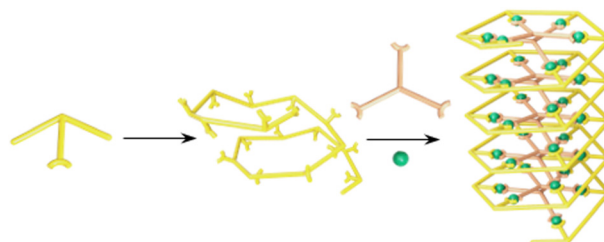
Jie Chen, Hannan Chen and Bingbing Tian*



13022

Construction of metallo-helicoids with high antimicrobial activity via intermolecular coordination

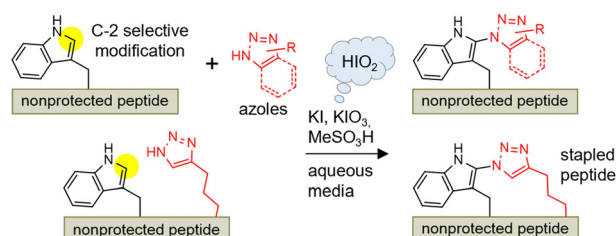
Zhanpeng Zhang, Shuai Lu,* Xiujun Yu, Lei Hua, Weiguo Wang, Menglin Xue, Jianfeng Cai, Heng Wang* and Xiaopeng Li



13026

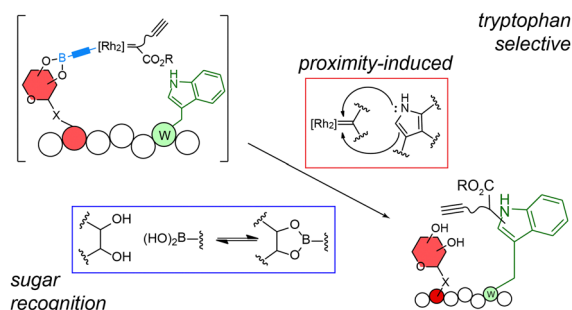
Selective modification of tryptophan in polypeptides via C–N coupling with azoles using *in situ*-generated iodine-based oxidants in aqueous media

Shunsuke Watanabe, Yuki Wada, Masaki Kawano, Shuhei Higashibayashi, Takeshi Sugai and Kengo Hanaya*



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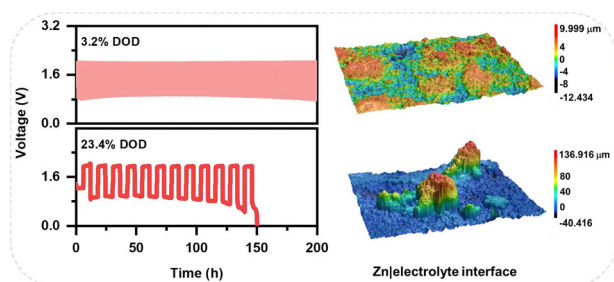
13030



Polyol recognition in catalysis: toward selective modification of glycosylated polypeptides with boronic acid–rhodium(II) catalysts

Reyner D. Vargas, Yuxuan Ding, Hallie O. Trial, Rouyu Qian and Zachary T. Ball*

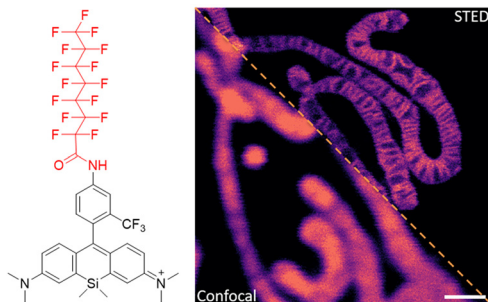
13034



Long-cycle Zn–air batteries at high depth of discharge enabled by a robust Zn|electrolyte interface

Jinxian Wang, Danni Deng, Yuchao Wang, Huanran Zheng, Mengjie Liu, Yingbi Chen, Yu Bai, Jiabi Jiang, Xinran Zheng, Peiyao Yang, Qiumei Wu, Xiang Xiong and Yongpeng Lei*

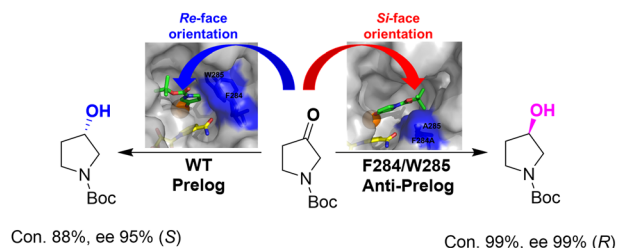
13038



Super-resolution imaging of mitochondrial cristae using a more hydrophobic far-red Si-rhodamine probe

Jing Sun, Xichuan Ge, Boya Jin, Shiyi Li, Yiwei Hou, Suyi Zhong, Zikang Yang, Peng Xi,* Meiqi Li* and Baoxiang Gao*

13042



Regulating the stereoselectivity of medium-chain dehydrogenase/reductase by creating an additional active pocket accommodating prochiral heterocyclic ketones

Lei Qin, Xin Su, Jun Wang, Lunjie Wu, Man Zou, Jie Gu, Yan Xu and Yao Nie*

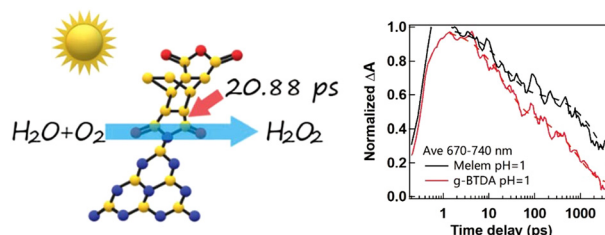


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13046

Ultrafast charge transfer in metal-free H_2O_2 photoproduction by anhydride modified g- C_3N_4

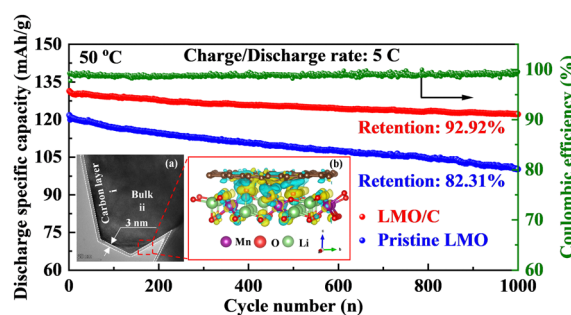
Ying Xie, Jingjing Liu, Guanxiong Wang, Qiushi Hu* and Xihan Chen*



13050

Enhanced high-temperature electrochemical properties of *in situ* carbon-coated truncated octahedral LiMn_2O_4 cathodes

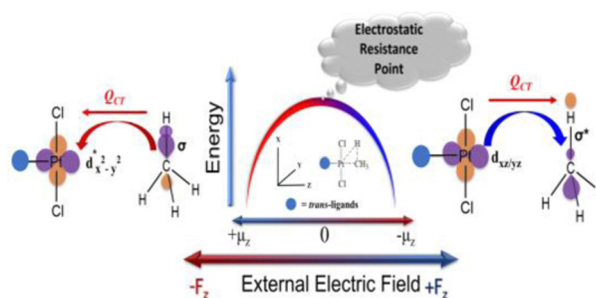
Jiayi He, Yan Ren, Shuxin Zhuang,* Shengyu Jiang, Xiaoxiao Pan, Gaoxing Sun, Bin Zhu, Yanfen Wen* and Xiaodan Li



13054

Internal charge-transfer in a metal-catalyzed oxidative addition reaction turns an inhibitive electric field stimulus to catalytic

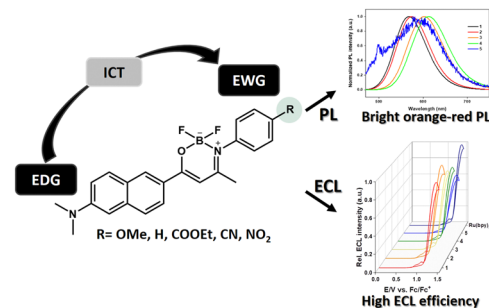
Karthik Gopakumar, Vivekananda Samantaray, Mithun Kumar Prusty, Lopita Swain and Rajeev Ramanan*



13058

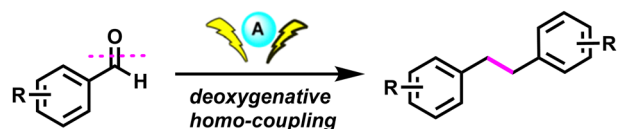
Electrochemiluminescence of dimethylaminonaphthalene-oxazaborine donor-acceptor luminophores

Kyoung-Rok Kim, Jiwoo Kim, Jinrok Oh, Joohoon Kim* and Jong-In Hong*



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13062



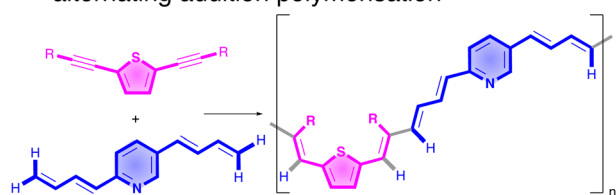
◆ mild conditions ◆ metal-free ◆ undivided cell

Electrochemical deoxygenative homo-couplings of aromatic aldehydes

Xiaoqian Zhao, Meng Li, Kunhui Sun, Zhimin Xu, Lifang Tian* and Yahui Wang*

13066

Halogen-, oxidant- and directing group-free alternating addition polymerisation



Halogen-, oxidant- and directing group-free synthesis of donor–acceptor type conjugated polymers

Sayori Kiyota and Masafumi Hirano*

