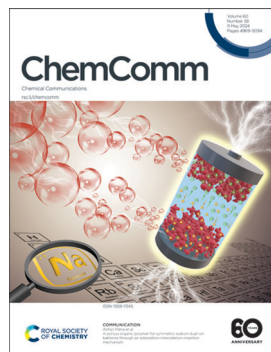


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Cover

See Abhijit Patra *et al.*, pp. 5010–5013.
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Inside cover

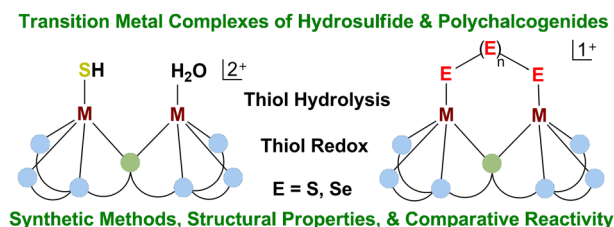
See Shigenori Iwai *et al.*, pp. 5014–5017.
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FEATURE ARTICLES

4979

Nonheme binuclear transition metal complexes with hydrosulfide and polychalcogenides

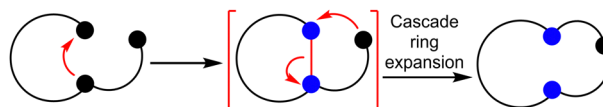
Kamal Hossain, Sayan Atta, Anuj Baran Chakraborty, Soumik Karmakar and Amit Majumdar*



4999

Cascade ring expansion reactions for the synthesis of medium-sized rings and macrocycles

Jack M. Wootton, Jerry K. F. Tam and William P. Unsworth*



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Fundamental questions
Elemental answers

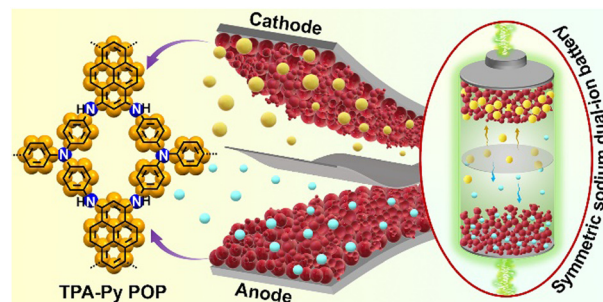


COMMUNICATIONS

5010

A porous organic polymer for symmetric sodium dual-ion batteries through an adsorption-intercalation-insertion mechanism

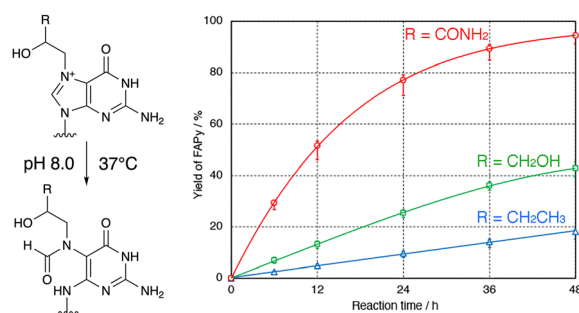
Suprabhat Sarkar, Tapas Kumar Dutta, Balaji Prasad Mandal and Abhijit Patra*



5014

Acceleration of hydrolytic ring opening of N7-alkylguanine by the terminal carbamoyl group of glycidamide

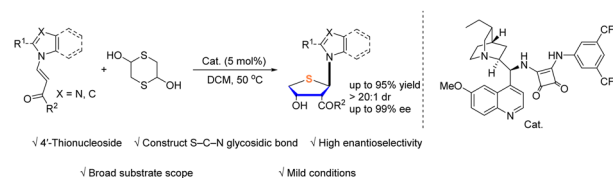
Shigenori Iwai,* Yuta Hayashi, Tomohiro Baba and Yasutaka Kitagawa



5018

Construction of thioglycoside bonds *via* an asymmetric organocatalyzed sulfa-Michael/aldol reaction: access to 4'-thionucleosides

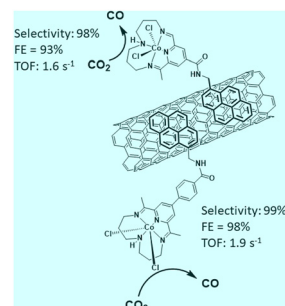
Tao Wei, Ming-Sheng Xie* and Hai-Ming Guo*



5022

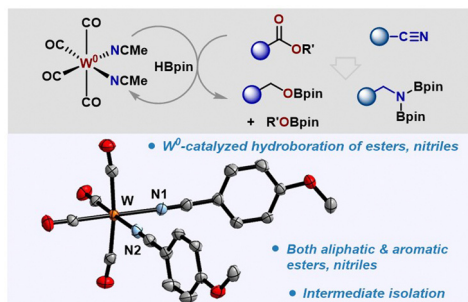
Carbon nanotube heterogenization improves cobalt pyridyldiimine complex CO₂ reduction activity in aqueous carbonate buffer

Baptiste Andrin, Paulo Jorge Marques Cordeiro Junior, David Provost, Stéphane Diring, Yann Pellegrin, Marc Robert* and Fabrice Odobel*



COMMUNICATIONS

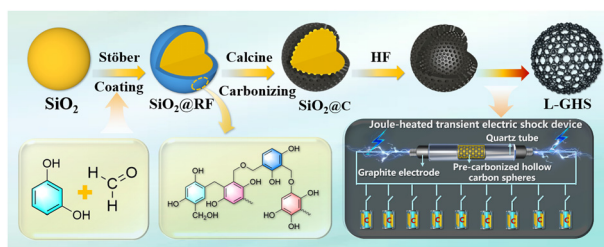
5026



Low-valent-tungsten catalysis enables hydroboration of esters and nitriles

Heng Song,* Yuting Xiao, Jingjing Wei, Yuzan Liu, Liqing Yang, Pengtao Bai, Fu Yang, Kai Yu, Chen Xu* and Xingwei Cai*

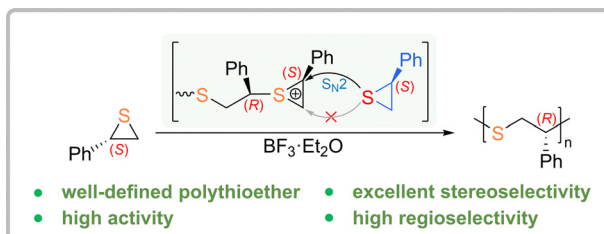
5030



A graphene-like hollow sphere anode for lithium-ion batteries

Lili You, Shu Dong,* Yongzheng Fang, Yan Guo, Kai Zhu, Yinyi Gao, Tianzeng Bao, Hongbin Wu and Dianxue Cao*

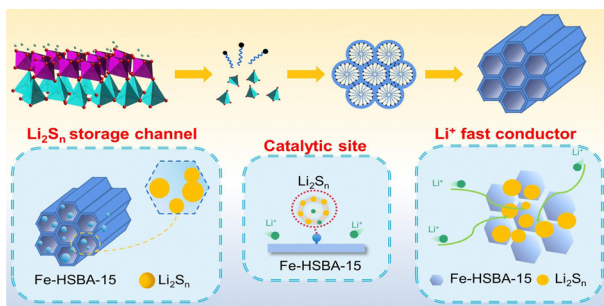
5034



Stereoregular poly(2-phenylthiirane) via cationic ring-opening polymerization

Yu Xiao, Tian-Jun Yue,* Xiao-Bing Lu and Wei-Min Ren

5038



Halloysite-derived mesoporous silica with high ionic conductivity improves Li–S battery performance

Ranxiao Ao, Ziqi Zhu, Shilin Zhang, Qiang Zhang, Chenyu Yan, Feiyue Tu, Tianbao Li, Mitch Guijun Li, Liangjie Fu,* Aidong Tang* and Huaming Yang*

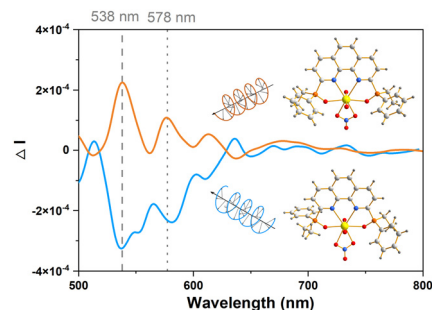


COMMUNICATIONS

5042

Epimerization effects on coordination behaviours of phenanthroline-based phosphine-oxide ligands with uranyl ions

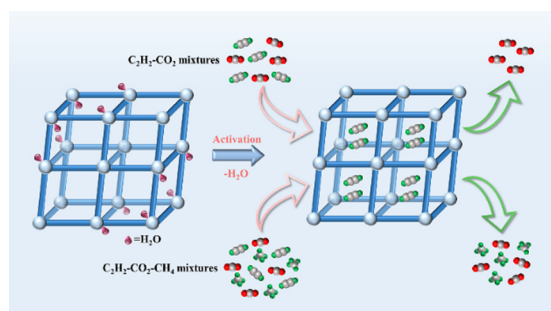
Xiaofan Yang, Dong Fang, Shihui Wang, Zhenjiang Tian, Lei Xu, Jiyong Liu, Anyun Zhang and Chengliang Xiao*



5046

Pure separation of acetylene based on a sulfonic acid and amino group functionalized Zn-MOF

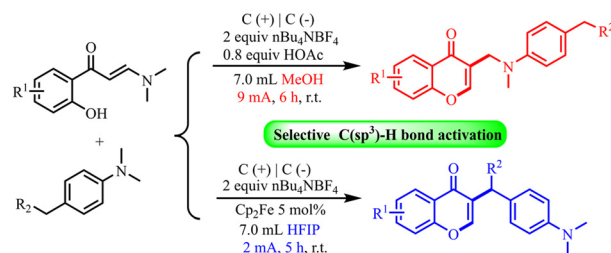
Yu-Xin Deng, Guo-Ping Yang* and Yao-Yu Wang*



5050

Electrochemical-induced solvent-tuned selective C(sp³)-H bond activation towards the synthesis of C3-functionalized chromone derivatives

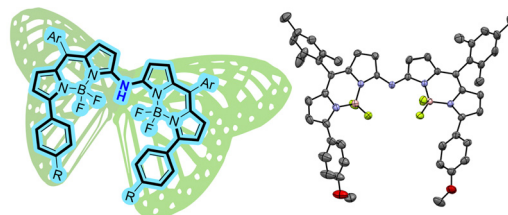
Ying Gao, Mingxu Wang, Jingxian Sun, Xiao-Jing Zhao* and Yonghui He*



5054

NIR-absorbing and emitting α,α -nitrogen-bridged BODIPY dimers with strong excitonic coupling

Long Wang, Cheng Cheng, Changjiang Yu,* Qinghua Wu, Zhengxin Kang, Hua Wang,* Lijuan Jiao and Erhong Hao*

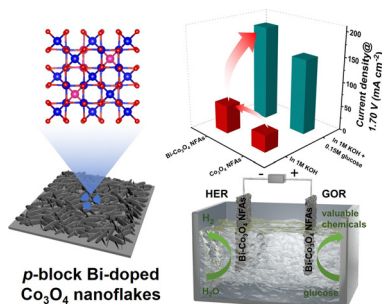


- efficient synthesis through S_NAr reactions
- red-shifted absorption and emission in NIR region
- strong excitonic coupling between each BODIPY unit



COMMUNICATIONS

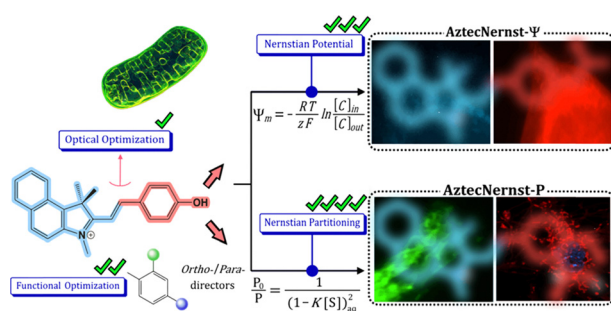
5058



A p-block dopant enables energy-efficient hydrogen production from biomass

Wenxian Liu, Jiawei Tang, Chao Kong, Ruilian Yin,*
Wei Guo, Jiale Dai, Fangfang Wu, Wenhui Shi and
Xiehong Cao*

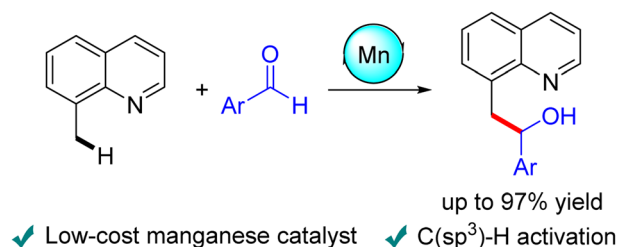
5062



Exploring mitochondrial targeting: an innovative fluorescent probe reveals Nernstian potential and partitioning combination

Javier Ordóñez-Hernández, Daniela Ceballos-Ávila,
Fernando H. Real, Luis B. Tovar-Y-Romo and
Arturo Jiménez-Sánchez*

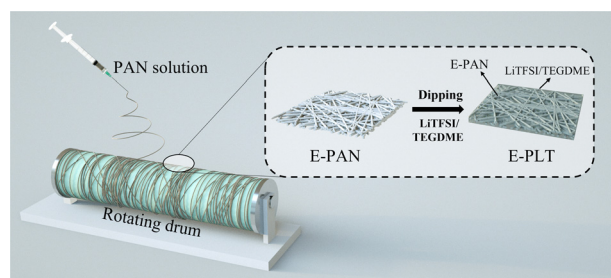
5066



Manganese(II)-catalyzed nucleophilic addition of $\text{C}(\text{sp}^3)\text{-H}$ bonds to aldehydes

Hongxin Liu, Tingyu Tang, Bin Li and Baiquan Wang*

5070



Electrospinning-assisted porous skeleton electrolytes for semi-solid Li-O_2 batteries

Jing Wu, Minghui Li, Shasha Gao, Yaying Dou,
Kecheng Pan, Zhang Zhang* and Zhen Zhou

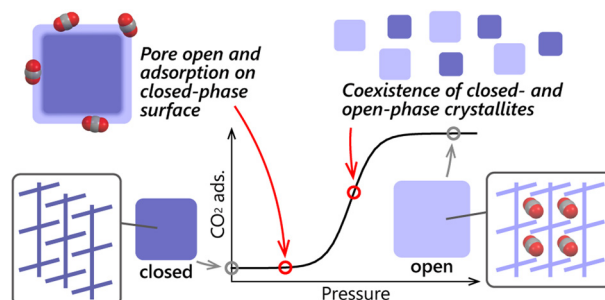


COMMUNICATIONS

5074

CO₂-induced gate-opening structural transition process of a porous coordination polymer revealed by solid-state ¹³C NMR

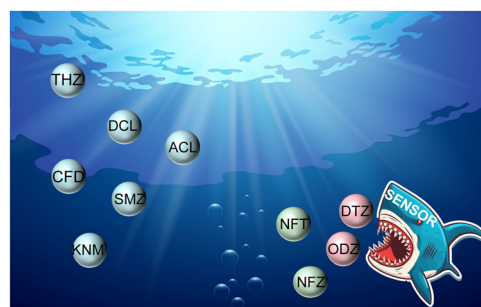
Takuya Kurihara,* Yue Sourì, Munehiro Inukai and Motohiro Mizuno*



5078

Distinguishing nitroimidazoles from nitrofurans via luminescence sensing

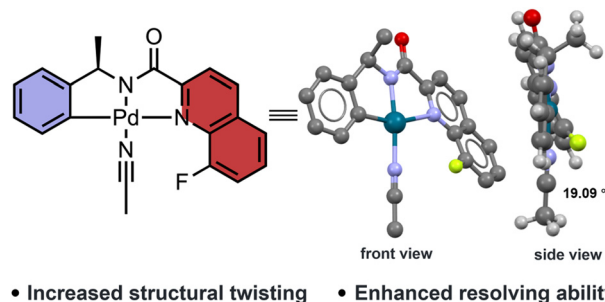
Wanyu Qi, Zicheng Wang, Xin Tong, Haibo Zhang* and Yuxin Li*



5082

A high-performance chiral ¹⁹F-labeled probe with an increased structural twisting

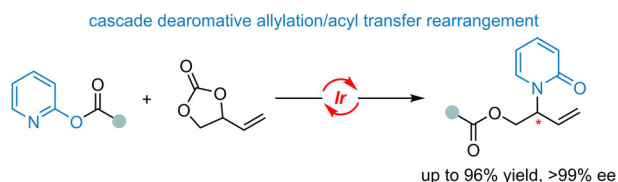
Chenyang Wang, Guangxing Gu, Wei Zhang, Jian Wu and Yanchuan Zhao*



5086

Iridium-catalyzed asymmetric cascade dearomative allylation/acyl transfer rearrangement: access to chiral *N*-substituted 2-pyridones

Wei-Yi Wang, Zhi-Yuan Yi, Zuo-Fei Wang, Xiu-Qin Dong* and Chun-Jiang Wang*



CORRECTION

5090

Correction: Influence of a neighbouring Cu centre on electro- and photocatalytic CO₂ reduction by Fe-Mabiq

Kerstin Rickmeyer, Matthias Huber and Corinna R. Hess*

