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Chemical Communications

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IN THIS ISSUE

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Cover

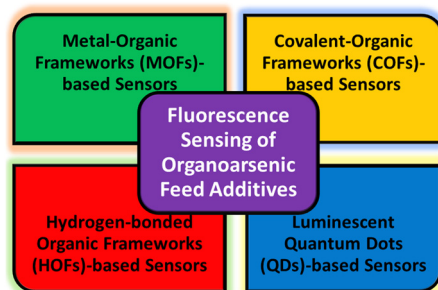
See Yi-Tsu Chan *et al.*,
pp. 11500-11503.
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Chem. Commun.,
2023, 59, 11500.

HIGHLIGHT

11456

Recent advances in fluorescence-based chemosensing of organoarsenic feed additives using luminescence MOFs, COFs, HOFs, and QDs

Rajdeep Mondal, Ananthu Shanmughan, A. Murugeswari* and Sankarasekaran Shanmugaraju*

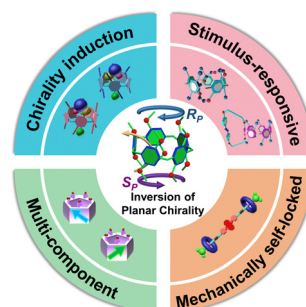


FEATURE ARTICLES

11469

Chiroptical regulation of macrocyclic arenes with flipping-induced inversion of planar chirality

Ting Zhao, Wanhua Wu* and Cheng Yang*



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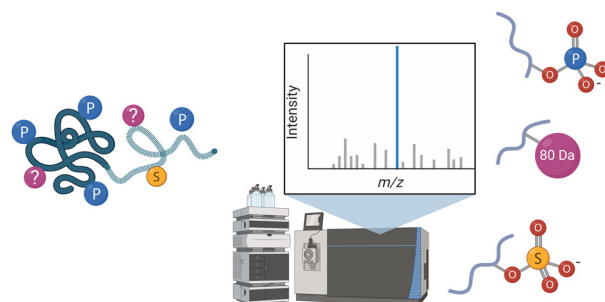


FEATURE ARTICLES

11484

Considerations for defining +80 Da mass shifts in mass spectrometry-based proteomics: phosphorylation and beyond

Leonard A. Daly, Christopher J. Clarke, Allen Po, Sally O. Oswald and Claire E. Eyers*

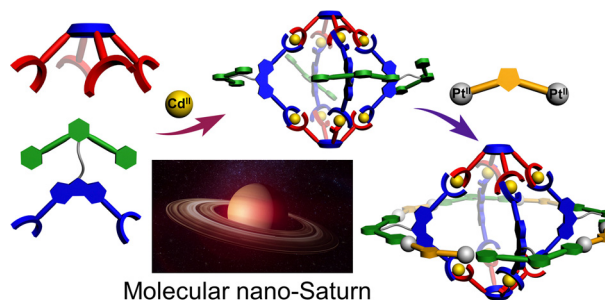


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11500

Sequential self-assembly of calix[4]resorcinarene-based heterobimetallic Cd₈Pt₈ nano-Saturn complexes

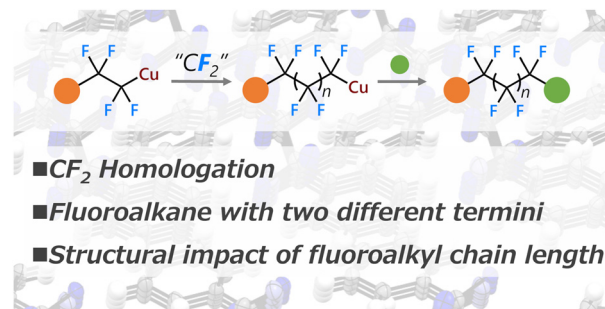
Lipeng He, Lijie Li, Shi-Cheng Wang and Yi-Tsu Chan*



11504

Difluoromethylene insertion into fluoroalkyl copper complexes

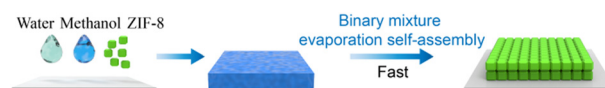
Yuyang Zhou, Ryohei Doi* and Sensuke Ogoshi*



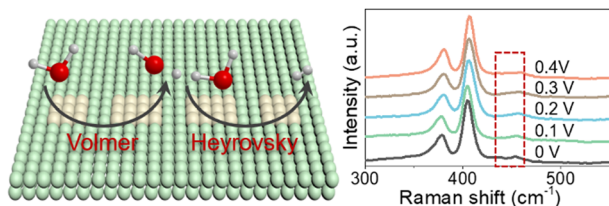
11508

Methanol–water mixture evaporation-induced self-assembly of ZIF-8 particles

Jikun Yin, Haochen Ye, Xiaoli Xia, Lanhua Yi* and Tie Wang*



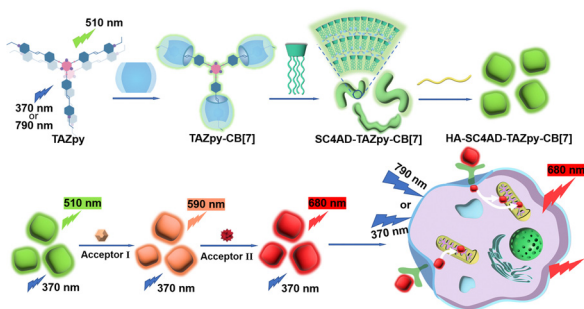
11512



Coupling MoS₂ nanosheets with CeO₂ for efficient electrocatalytic hydrogen evolution at large current densities

Rui-Qing Li,* Changming Wang, Shuixiang Xie, Tianyu Hang, Xiaoyu Wan, Jinjue Zeng* and Wei Zhang*

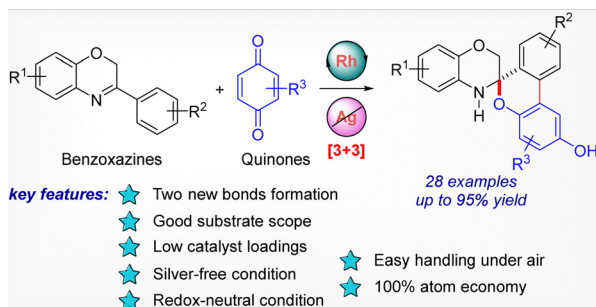
11516



Triazine pyridinium derivative supramolecular cascade assembly extended FRET for two-photon NIR targeted cell imaging

Xuan Zhao, Xiaolu Zhou, Wen-Wen Xing and Yu Liu*

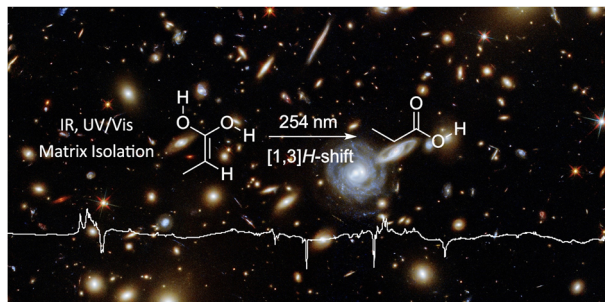
11520



Rhodium(III)-catalyzed intermolecular [3+3] annulation of benzoxazines with quinone compounds: access to spiro-heterocyclic scaffolds

Qing-Yi Wei, Ze Zhou, Meng-Lian Yao, Ji-Kai Liu, Bin Wu and Jin-Ming Yang*

11524



The enol of propionic acid

Akkad Danho, Artur Mardyukov and Peter R. Schreiner*

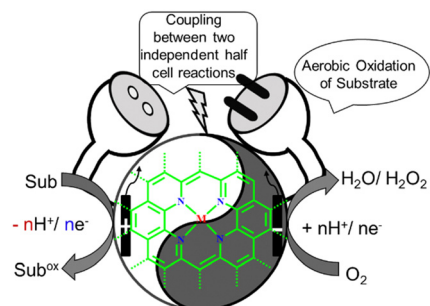


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11528

The synergy between electrochemical substrate oxidation and the oxygen reduction reaction to enable aerobic oxidation

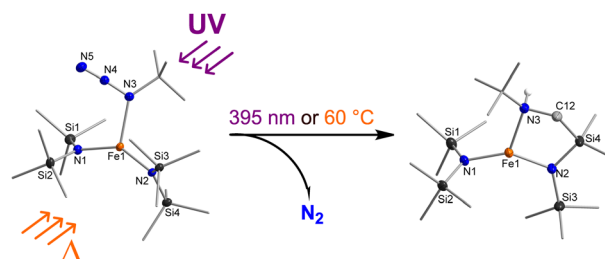
Snehanjali Behera, SK Tarik Aziz, Nisha Singla and Biswajit Mondal*



11532

A low-coordinate iron organoazide complex

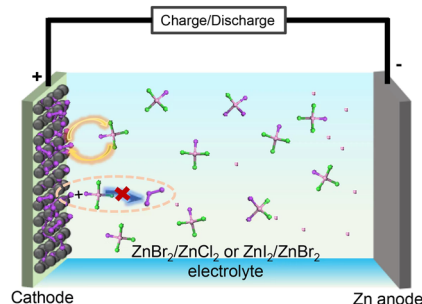
Andres Gonzalez, Serhiy Demeshko, Franc Meyer and C. Gunnar Werncke*



11536

Zinc-dual-halide complexes suppressing polyhalide formation for rechargeable aqueous zinc–halogen batteries

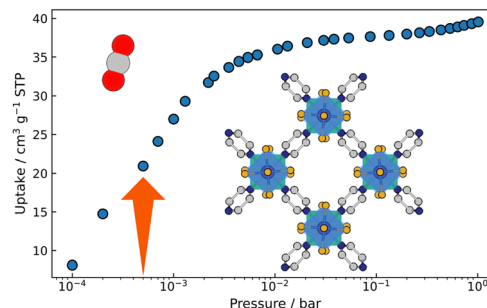
Wanlong Wu, Xiaoyu Yin, Sibao Wang, Quanwei Jiang, Hua-Yu Shi and Xiaoqi Sun*



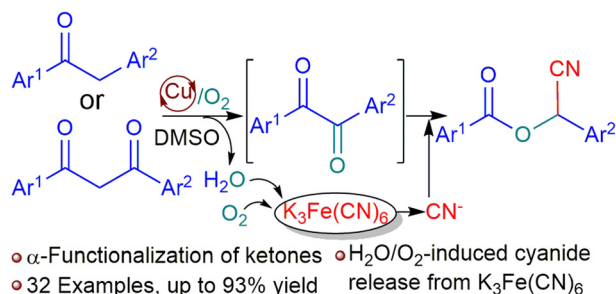
11540

Enhanced CO₂ sorption properties in a polarizable [WO₂F₄]²⁻-pillared physisorbent under direct air capture conditions

Daniel O’Nolan, Lindsey Chatterton, Timothy Bellamy, J. Todd Ennis and Mustapha Soukri*



11544



Catalytic cascade synthesis of cyanohydrin esters via water/ O_2 -induced cyanide transfer from $\text{K}_3\text{Fe}(\text{CN})_6$

Anupam Kumar Singh, Shivani Singh Chauhan and Sukalyan Bhadra*

11548

BULKY NHC-COBALT CATALYST

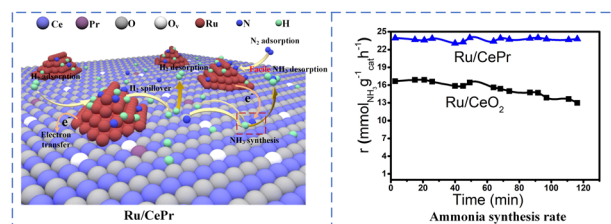


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- Broad substrate scope
- No harmful by-products
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Highly selective α -hydrogermylation of alkynes catalyzed by an *in situ* generated bulky NHC-cobalt complex

Małgorzata Bott,* Aleksandra Mermela and Patrycja Żak

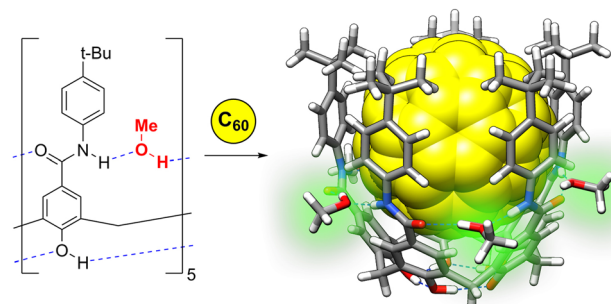
11552



Boosting the ammonia synthesis activity of ceria-supported Ru catalysts achieved through trace Pr addition

Chunyan Li, Zecheng Zhang, Lingyun Zhou, Biyun Fang, Jun Ni, Jianxin Lin, Bingyu Lin* and Lilong Jiang*

11556



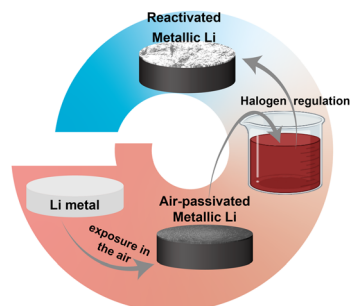
Intermolecular hydrogen bonding in calix[5]arene derived cavitands regulates the molecular recognition of fullerenes

Rubén Álvarez-Yebra, Alba Sors-Vendrell and Agustí Lledó*



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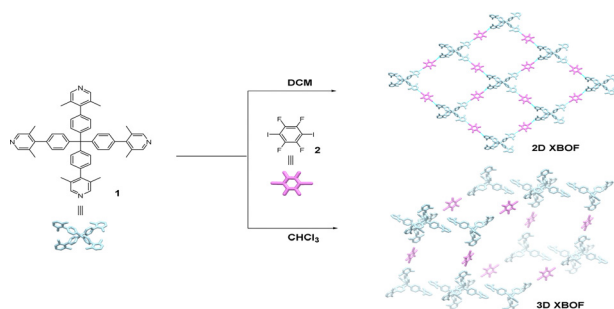
11576



Reactivation of an air-passivated lithium metal anode through halogen regulation

Yiqing Yao, Hui Gu, Jiahang Zou, Hanxu Yang, Qingan Zhang, Zhipeng Jiang* and Yongtao Li*

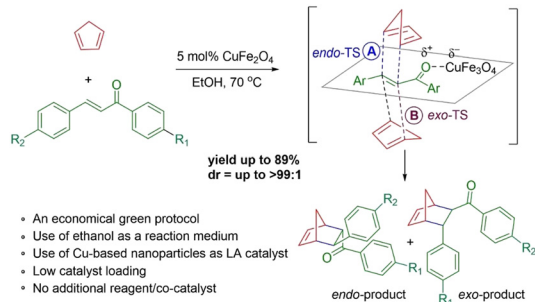
11580



Two and three-dimensional halogen-bonded frameworks: self-assembly influenced by crystallization solvents

Chuan-Zhi Liu,* Jing-Jing Wang, Bo Yang, Zhong-Yi Li, Meng Yan, Xin-Ming Liu, Zhi-Yuan Hu,* Lan-Tao Liu and Zhan-Ting Li*

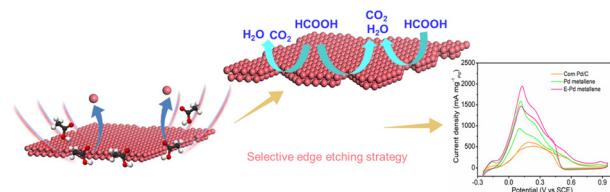
11584



Copper ferrite nanoparticles catalyzed the challenging Diels–Alder reaction of aromatic chalcones with cyclopentadiene

Divya Tagra, Meha Bhargava and Jyoti Agarwal*

11588



Selective edge etching of Pd metallene for enhanced formic acid electrooxidation

Ze Liu,* Xiaohang Ge, Yanrui Wang, Mang Niu, Weiyong Yuan and Lian Ying Zhang*



CORRECTIONS

11592

Correction: Stannyl phosphaketene as a synthon for phosphorus analogues of β -lactams

Yong-an Luo, Zhao Zhao, Ting Chen, Yanguo Li, Yufen Zhao, Douglas W. Stephan* and Yile Wu*

11593

Correction: Cyclopentane FIT-PNAs: bright RNA sensors

Odelia Tepper,* Hongchao Zheng, Daniel H. Appella* and Eylon Yavin*

