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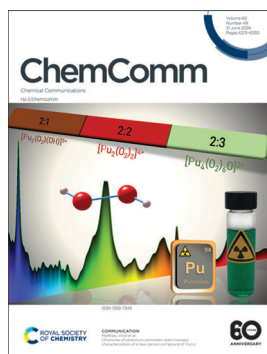
IN THIS ISSUE

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Cover

See Yusuke Kawamoto, Yoshinobu Takakura *et al.*, pp. 6256–6259. Image reproduced by permission of Yusuke Kawamoto from *Chem. Commun.*, 2024, 60, 6256.



Inside cover

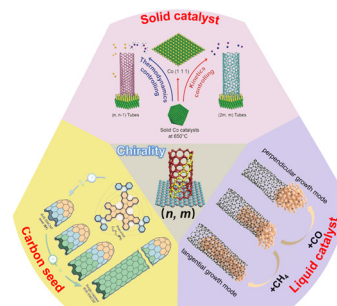
See Matthieu Virost *et al.*, pp. 6260–6263. Image reproduced by permission of Matthieu Virost from *Chem. Commun.*, 2024, 60, 6260.

HIGHLIGHT

6222

Evolution of catalyst design for controlled synthesis of chiral single-walled carbon nanotubes

Xinyu Zhang, Xiuxia Wang, Linxi Zhu, Yi Yu, Hongfeng Yang, Shuchen Zhang,* Yue Hu* and Shaoming Huang*

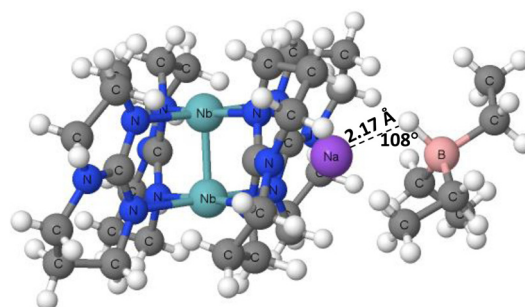


FEATURE ARTICLE

6239

Hydrogen bond types which do not fit accepted definitions

Sławomir J. Grabowski



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Fundamental questions
Elemental answers

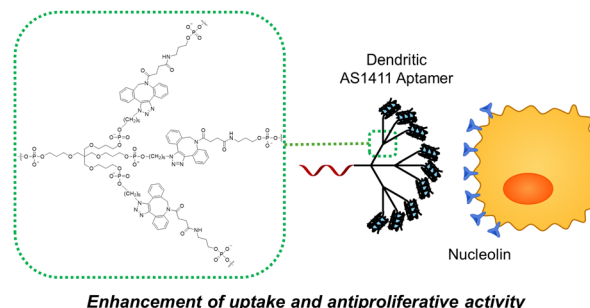


COMMUNICATIONS

6256

Multivalent dendritic DNA aptamer molecules for the enhancement of therapeutic effects

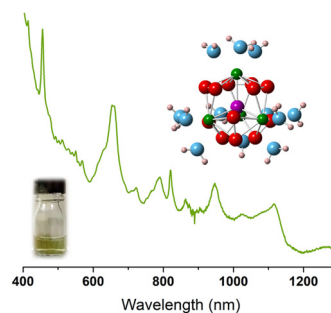
Yusuke Kawamoto,* You Wu, Soyoung Park, Kumi Hidaka, Hiroshi Sugiyama, Yuki Takahashi and Yoshinobu Takakura*



6260

Chronicles of plutonium peroxides: spectroscopic characterization of a new peroxy compound of Pu(IV)

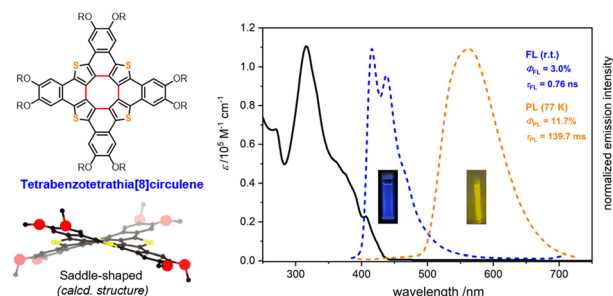
Julien Margate, Simon Bayle, Thomas Dumas, Elodie Dalodière, Christelle Tamain, Denis Menut, Paul Estevenon, Philippe Moisy, Sergey I. Nikitenko and Matthieu Virot*



6264

Construction of a tetrabenzotetrathia[8]circulene by a "fold-in" oxidative fusion reaction: synthesis and optical properties

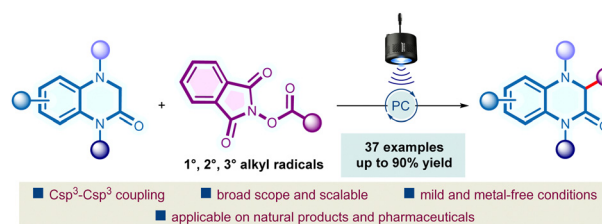
Shijun Gu, Zhihao Ma, Xiuqin Lu, Takayuki Tanaka, Atsuhiko Osuka and Fengkun Chen*



6268

Direct C–H alkylation of 3,4-dihydroquinoxaline-2-ones with *N*-(acyloxy)phthalimides via radical–radical cross coupling

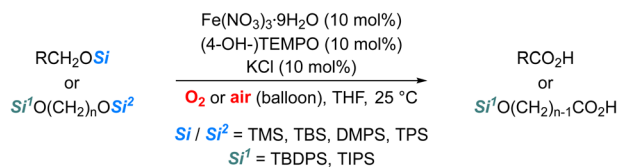
Sudhir Kumar Hota, Gulshan Singh and Sandip Murarka*



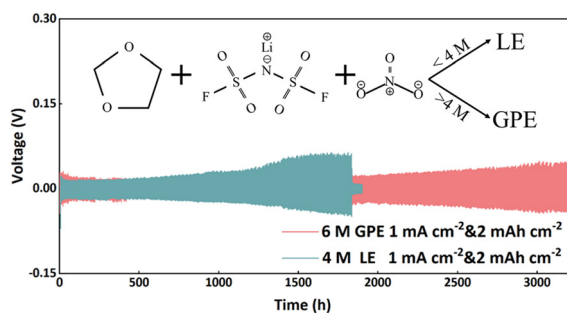
6272

Iron-catalyzed aerobic oxidation of silyl ethers to carboxylic acids

Zuizhi Lin and Shengming Ma*



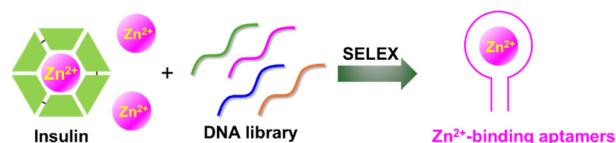
6276

High concentration *in situ* polymer gel electrolyte for high performance lithium metal batteriesZehui Zhang, Zhangbin Cheng, Feilong Qiu,*
Yuchen Jiang, Min Jia, Xiaohong Yan* and
Xiaoyu Zhang*

6280

Unexpected enrichment of DNA aptamers for Zn^{2+} ions from an insulin selection

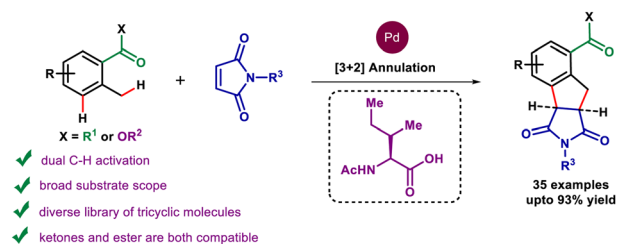
Yibo Liu, Xiaoqin Wang and Juewen Liu*



6284

Pd(II)-catalyzed cyclization of 2-methyl aromatic ketones with maleimides through weak chelation assisted dual C–H activation

Gouranga Naskar and Masilamani Jegannathan*

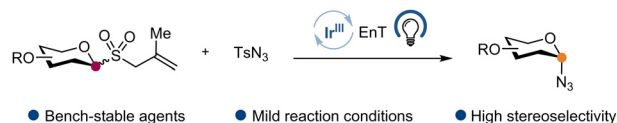


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6288

Stereoselective synthesis of α -glycosyl azides: allyl glycosyl sulfones as radical precursors

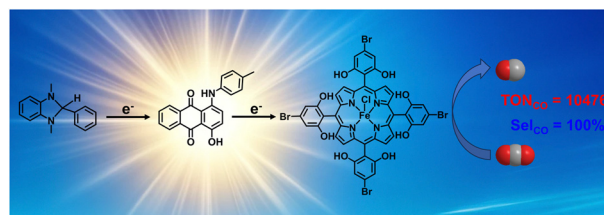
Yanqing Li, Yubiao Tian, Demeng Xie, Yingwei Wang* and Dawen Niu*



6292

Photocatalytic CO₂ reduction with iron porphyrin catalysts and anthraquinone dyes

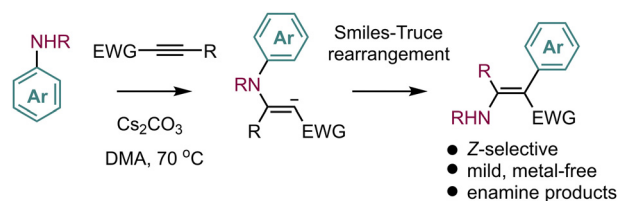
Huiqing Yuan,* Yuanhai Yu, Shuang Yang, Qinqin Lei, Zhiwei Yang, Bang Lan* and Zhiji Han*



6296

Aminoarylation of alkynes using diarylanilines

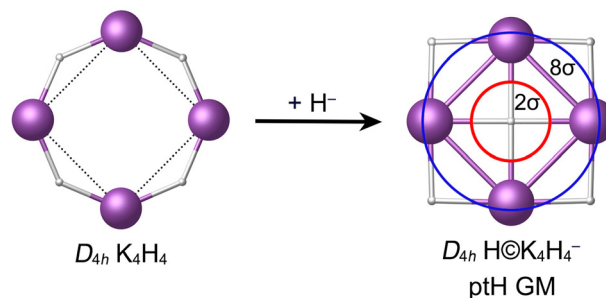
Zi Liu and Michael F. Greaney*



6300

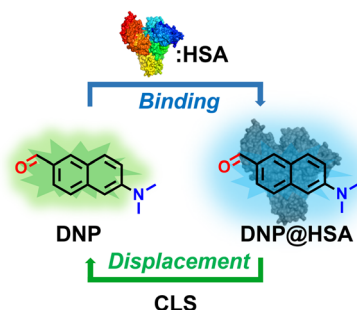
 D_{4h} $H\textcircled{\bullet}K_4H_4^-$: a planar tetracoordinate hydrogen global minimum

Li-Xia Bai, Yan-Xia Jin and Jin-Chang Guo*



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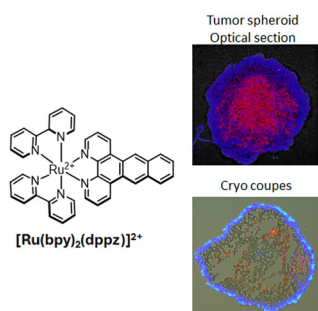
6304



Harnessing a simple ratiometric fluorescent probe for albumin recognition and beyond

Zhongyong Xu, Weihua Deng, Na Li, Taoyuze Lv, Lei Wang, Xiaoqiang Chen, Mingle Li, Wenxing Zhang,* Bin Liu* and Xiaojun Peng

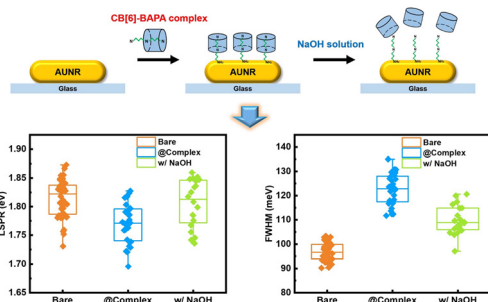
6308



Cell viability imaging in tumor spheroids via DNA binding of a ruthenium(II) light-switch complex

Vadde Ramu,* Lukas S. Wijaya, Nataliia Beztsinna, Corjan Van de Griend, Bob van de Water, Sylvestre Bonnet* and Sylvia E. Le Dévédec*

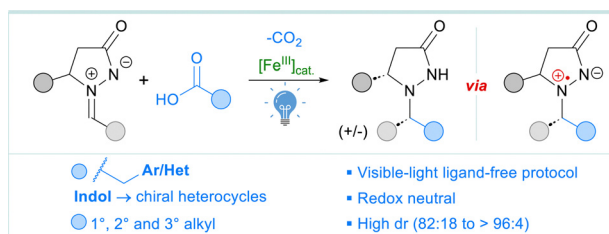
6312



Tuning of chemical interface damping in single gold nanorods through pH-dependent host-guest interactions using cucurbit[6]uril

Ji Min Kim and Ji Won Ha*

6316



Iron-catalyzed decarboxylative radical addition to chiral azomethine imines upon visible light

Arona Fall, Mihaela Magdei, Mariia Savchuk, Sylvain Oudeyer, Hélène Beucher* and Jean-François Brière*

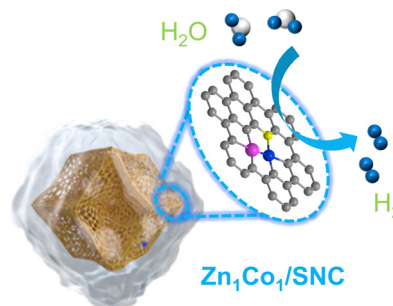


COMMUNICATIONS

6320

An asymmetrically coordinated Zn–Co diatomic site catalyst for efficient hydrogen evolution reactions

Jinhong Guo, Jiayi Yang, Zequn Xiang, Huazhang Zhai* and Wenxing Chen*



6324

Unveiling the physical mechanisms driving delafossite crystal (ABX_2) formation through interpretable machine learning

Ning Xu, Zheng Li, Xiaolan Fu, Xiaojuan Hu,* Wenwu Xu* and Zhong-Kang Han*

