

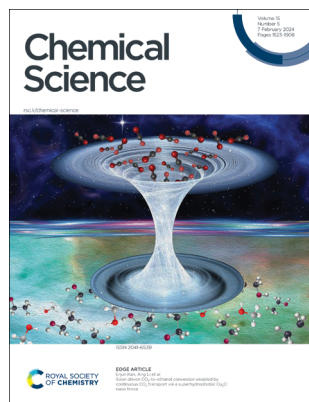
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Challenges in the design and synthesis of self-assembling molecules as selective contacts in perovskite solar cells

Carlos E. Puerto Galvis,* Dora A. González Ruiz, Eugenia Martínez-Ferrero and Emilio Palomares*

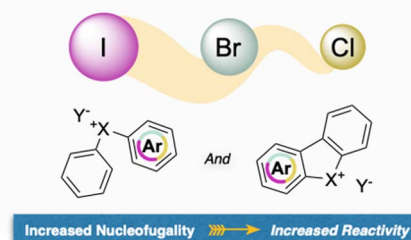


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Diaryl hypervalent bromines and chlorines: synthesis, structures and reactivities

Matteo Lanzì* and Joanna Wencel-Delord*

Diaryl halogens hypervalent compounds



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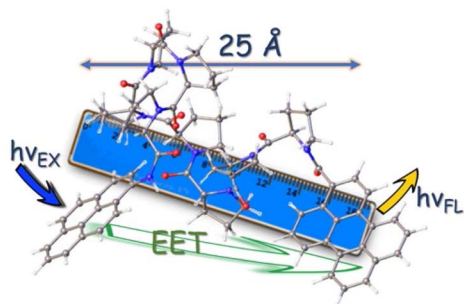
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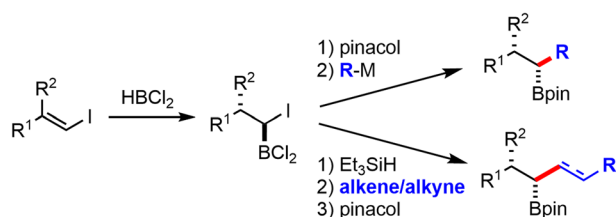
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Deducing the conformational space for an octa-proline helix

Sara M. A. Waly, Andrew C. Benniston* and Anthony Harriman*

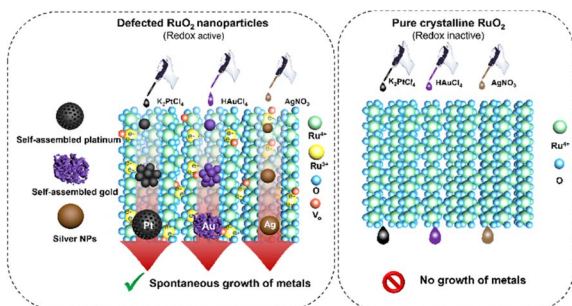
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Borylative transition metal-free couplings of vinyl iodides with various nucleophiles, alkenes or alkynes

Gesa Seidler, Max Schwenzer, Florian Clausen, Constantin G. Daniliuc and Armido Studer*

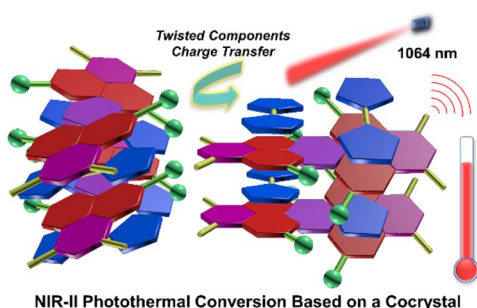
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Hydrous ruthenium oxide triggers template-free and spontaneous growth of metal nanostructures

Faheem Muhammad, Xiwen Chen, Jiayi Tang, Yuan Cheng, Yuyang Li, Chenxin Zhu, Yihong Zhang, Leiying Miao, Yu Deng and Hui Wei*

1692



NIR-II photothermal conversion and imaging based on a cocrystal containing twisted components

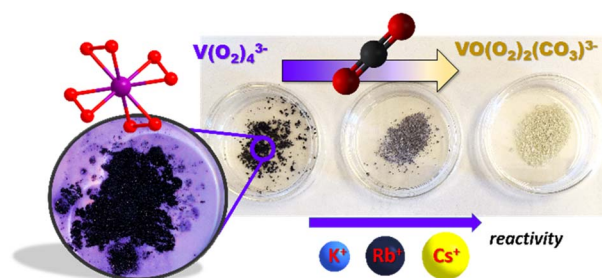
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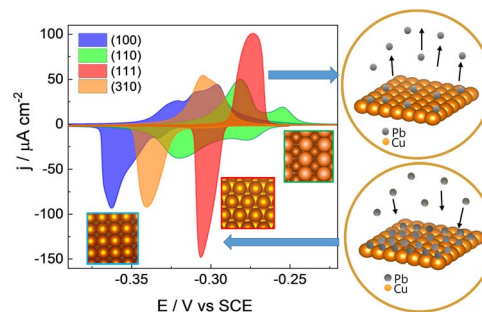
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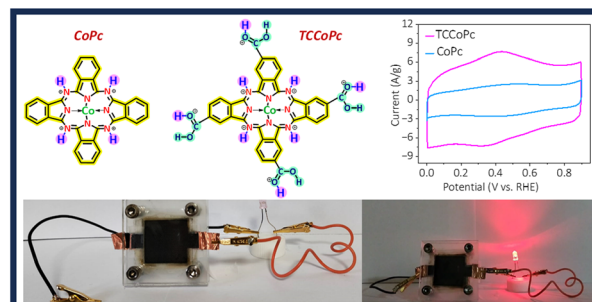
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Electrochemical energy storage in an organic supercapacitor via a non-electrochemical proton charge assembly

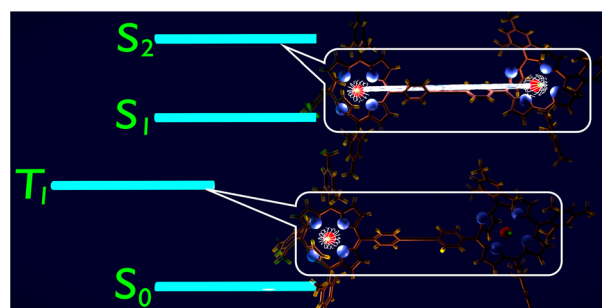
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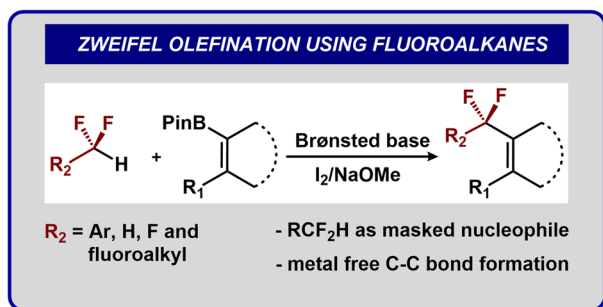
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Decorrelated singlet and triplet exciton delocalization in acetylene-bridged Zn-porphyrin dimers

Hasini Medagedara, Mandefro Y. Teferi, Sachithra T. Wanasinghe, Wade Burson, Shahad Kizi, Bradley Zaslona, Kristy L. Mardis, Jens Niklas, Oleg G. Poluektov* and Aaron S. Rury*



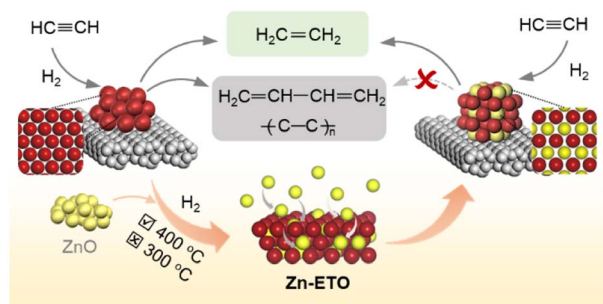
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A metal-free strategy to construct fluoroalkyl–olefin linkages using fluoroalkanes

Kaushik Chakrabarti, Michael M. Wade Wolfe, Shuo Guo, Joseph W. Tucker, Jisun Lee and Nathaniel K. Szymczak*

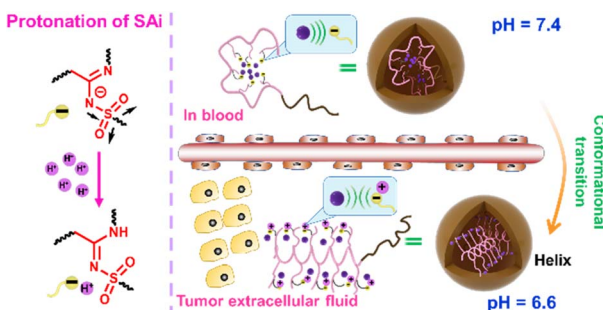
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Thermally induced intermetallic Rh₁Zn₁ nanoparticles with high phase-purity for highly selective hydrogenation of acetylene

Xiaocheng Lan, Yu Wang, Boyang Liu, Zhenyu Kang and Tiefeng Wang*

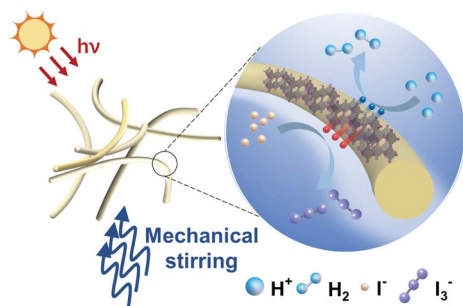
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N-Sulfonyl amidine polypeptides: new polymeric biomaterials with conformation transition responsive to tumor acidity

Xiang Xu, Jinjuan Ma, Aiguo Wang* and Nan Zheng*

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Significant hydrogen generation *via* photo-mechanical coupling in flexible methylammonium lead iodide nanowires

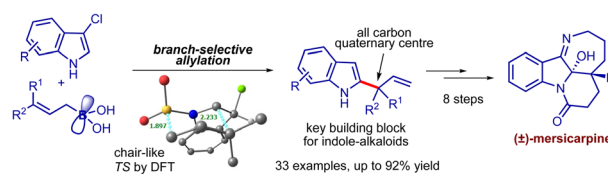
Yucheng Zhang, Jiawei Huang, Mengya Zhu, Zhouyang Zhang, Kaiqi Nie, Zhiguo Wang, Xiaxia Liao, Longlong Shu, Tingfang Tian,* Zhao Wang,* Yang Lu and Linfeng Fei*



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Construction of C2-indolyl-quaternary centers by branch-selective allylation: enabling concise total synthesis of the (±)-mersicarpine alkaloid

Minakshi Ghosh, Samrat Sahu, Shuvendu Saha and Modhu Sudan Maji*

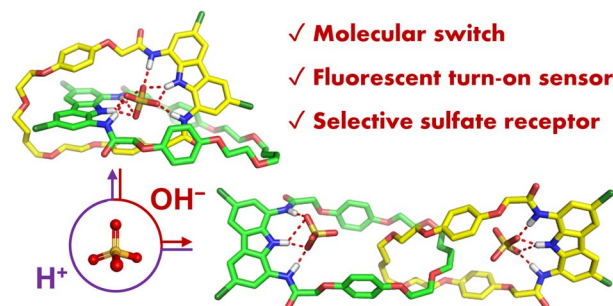


- simple allyl alcohol precursor
- excellent functional group tolerance
- scalable
- C3-unsubstituted indoles
- total synthesis of mersicarpine via two routes
- formal synthesis of (±)-scholarisine G, (±)-melodinine E, (±)-leuconoxine

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Anion-templated synthesis of a switchable fluorescent [2]catenane with sulfate sensing capability

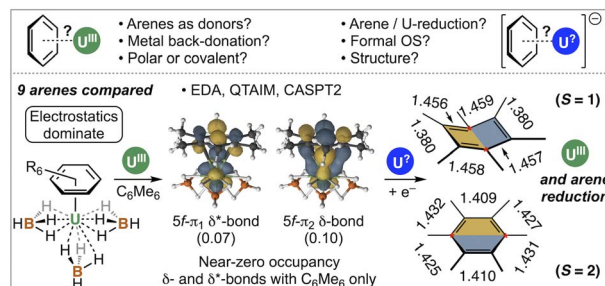
Krzysztof M. Bąk, Bartosz Trzaskowski and Michał J. Chmielewski



1810

What is the nature of the uranium(III)–arene bond?

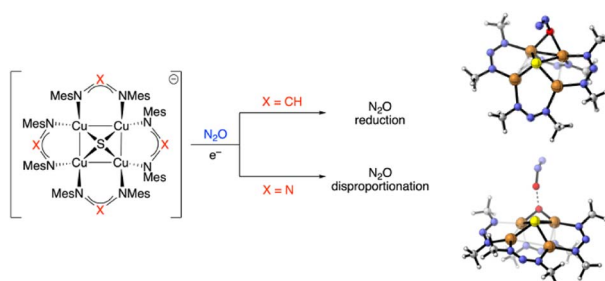
Sabyasachi Roy Chowdhury, Conrad A. P. Goodwin* and Bess Vlaisavljevich*



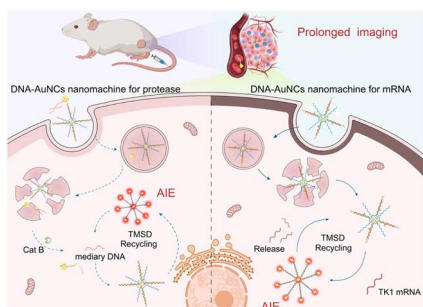
1820

Triazenide-supported [Cu₄S] structural mimics of Cu₂ that mediate N₂O disproportionation rather than reduction

Neal P. Mankad*



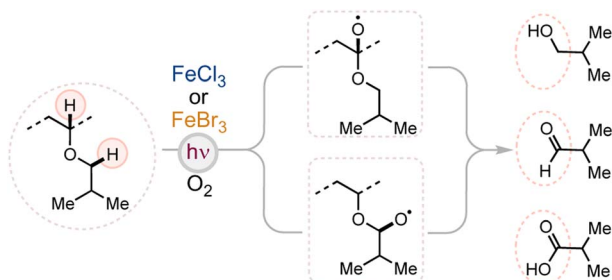
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Prolonged near-infrared fluorescence imaging of microRNAs and proteases *in vivo* by aggregation-enhanced emission from DNA-AuNC nanomachines

Ting Wang, Kai Jiang, Yifan Wang, Limei Xu, Yingqi Liu, Shiling Zhang, Weiwei Xiong, Yemei Wang, Fenfen Zheng* and Jun-Jie Zhu*

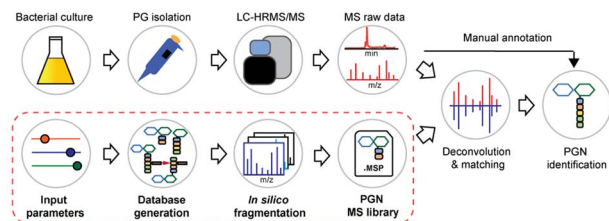
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Selective poly(vinyl ether) upcycling via photooxidative degradation with visible light

Darren L. Langer, Sewon Oh and Erin E. Stache*

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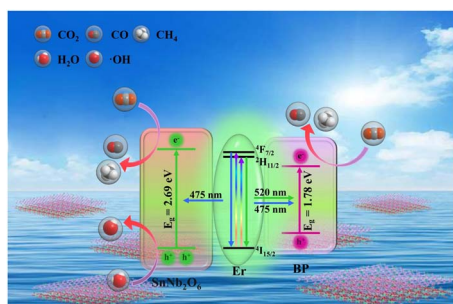


In silico MS/MS prediction for peptidoglycan profiling uncovers novel anti-inflammatory peptidoglycan fragments of the gut microbiota

Jeric Mun Chung Kwan, Yaquan Liang, Evan Wei Long Ng, Ekaterina Sviriaeva, Chenyu Li, Yilin Zhao, Xiao-Lin Zhang, Xue-Wei Liu, Sunny H. Wong and Yuan Qiao*

PGN_MS2: an *in silico* PGN library for automated LC-MS/MS spectral deconvolution of bacterial peptidoglycan fragments (PGNs)

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Study on synergistic effects of 4f levels of erbium and black phosphorus/SnNb₂O₆ heterostructure catalysts by multiple spectroscopic analysis techniques

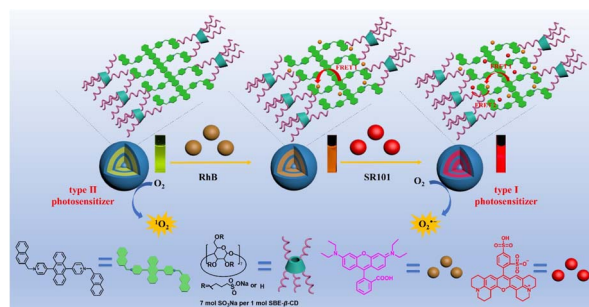
Minze Li, Jingzhen Wang, Qiuye Wang, Honglai Lu, Guofeng Wang* and Honggang Fu*



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Switchover from singlet oxygen to superoxide radical through a photoinduced two-step sequential energy transfer process

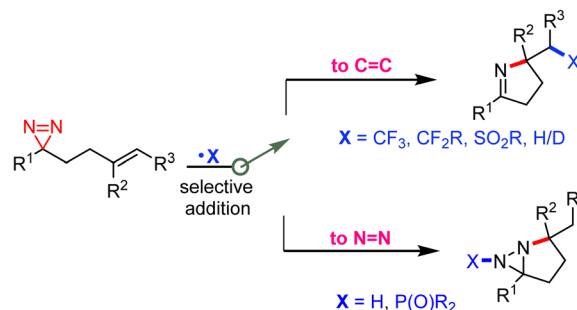
Shengsheng Yu, Rong-Xin Zhu, Kai-Kai Niu, Ning Han, Hui Liu and Ling-Bao Xing*



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Access to pyrrolines and fused diaziridines by selective radical addition to homoallylic diazirines

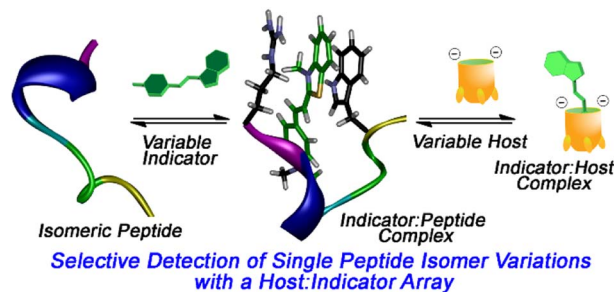
Zhigang Ma, Xinxin Wu, Haotian Li, Zhu Cao and Chen Zhu*



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Selective recognition and discrimination of single isomeric changes in peptide strands with a host: guest sensing array

Junyi Chen, Parisa Fasihianifard, Alexie Andrea P. Raz, Briana L. Hickey, Jose L. Moreno, Jr., Chia-En A. Chang, Richard J. Hooley* and Wenwan Zhong*



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Electronic configuration regulation of single-atomic Mn sites mediated by Mo/Mn clusters for an efficient hydrogen evolution reaction

Chengyu Zhang, Xiangyang Wang, Renyuan Zhao, Fabrice Ndayisenga and Zhisheng Yu*

