

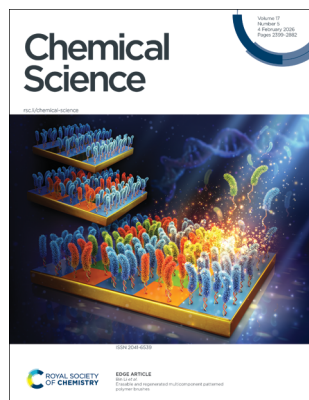
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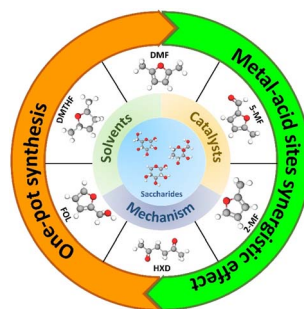
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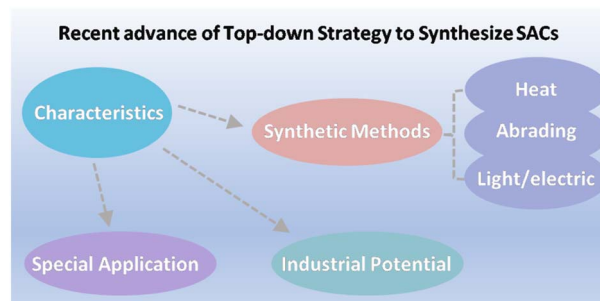
Xiaomeng Cheng, Minghua Dong, Huizhen Liu* and Buxing Han*



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Lin Tian and Yuen Wu*



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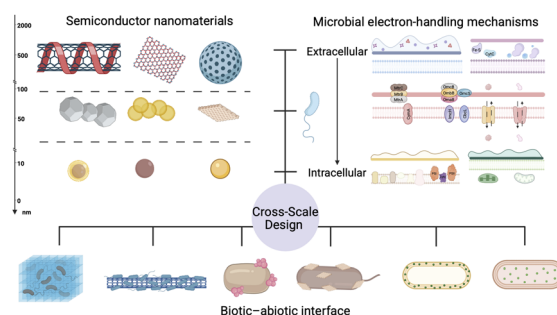
Fundamental questions
Elemental answers

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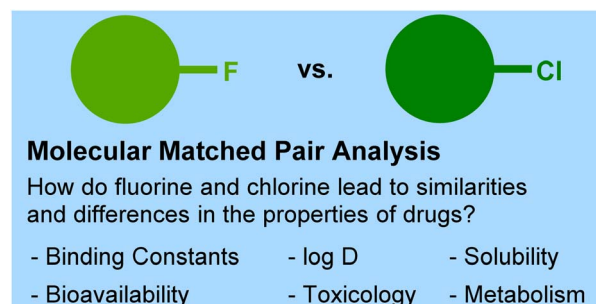
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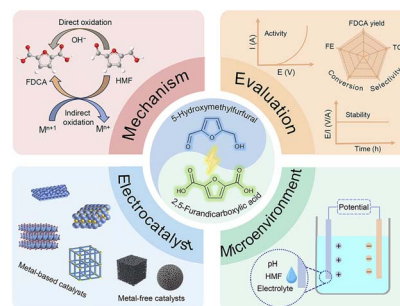
Connor J. E. Summerfield and Graham Pattison*



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Jiacheng Zhang, Siping Wang, Jiaqing Liu, Jiayi Chen, Guigang Zhang, Yidong Hou, Meifang Zheng,* Sibowang* and Xue Feng Lu*

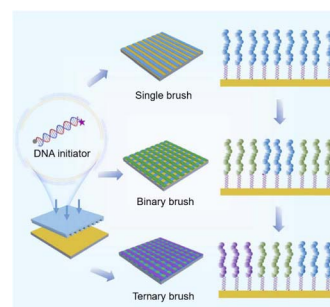


EDGE ARTICLES

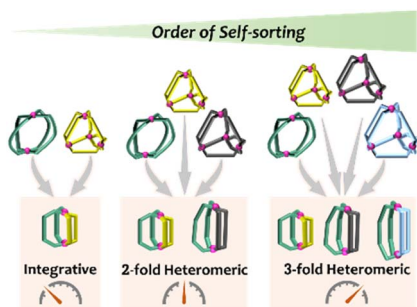
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Erasable and regenerated multicomponent patterned polymer brushes

Yuhong Cui, Baoluo He, Qian Ye, Feng Zhou and Bin Li*



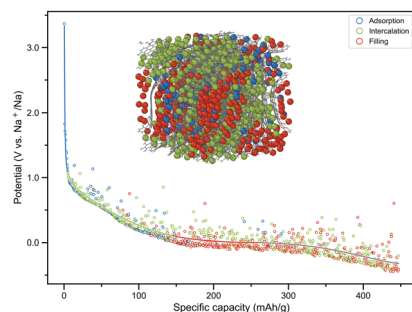
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Conformational adaptability enabled higher-order self-sorting processes in coordination cages

Minaz Parbin, Vellaiyadevan Sivalingam, Ramkumar Venkatachalam and Dillip Kumar Chand*

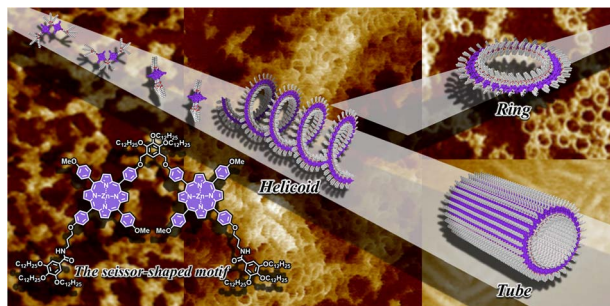
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Unveiling sodium storage mechanisms in hard carbon *via* machine learning-driven simulations integrated with accurate site occupation identification

Zhaoming Wang, Guanghui Shi, Guanghui Wang, Man Wang, Feng Ding* and Xiao Wang*

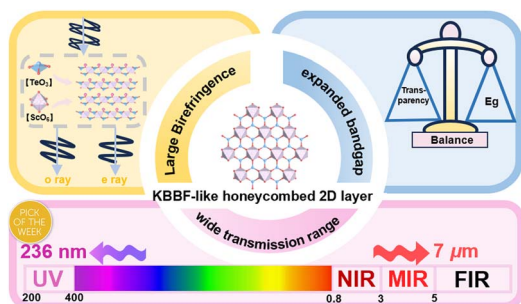
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Curvature-emergent supramolecular polymerization of a porphyrin dyad with a scissor-shaped motif

Ryuichi Kawai, Soichiro Ogi, Hiroki Hanayama, Ryo Kudo and Shiki Yagai*

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Tailoring ordered structures with distorted $[\text{TeO}_3]$ and aligned $[\text{ScO}_6]$ motifs for balanced nonlinear optical properties in rare-earth tellurate crystals

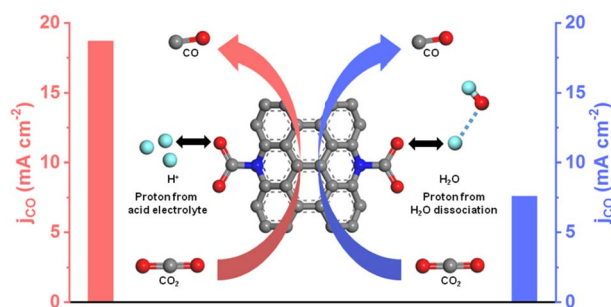
Xiaoxu Wang, Tinghui Zhang, Huijian Zhao, Ning Jia,* Hongjun Liu, Ning Ye, Zhanguai Hu and Conggang Li*



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Unveiling hydrogen-source-dominated CO₂ electroreduction activity on nitrogen-doped carbon nanotubes

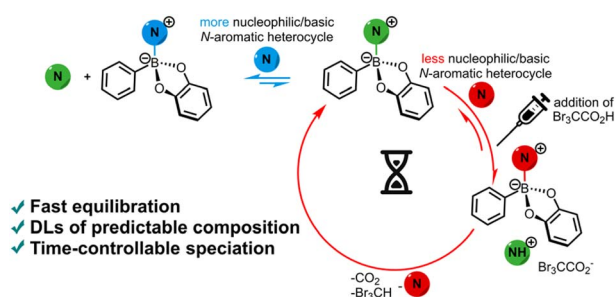
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The dynamic chemistry of the boron–nitrogen bond

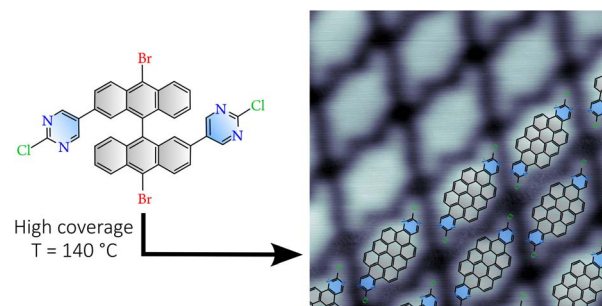
Federico Fratello,* Giorgio Capocasa,* Martina De Angelis, Greta Sandri, Osvaldo Lanzalunga, Chiara Massera* and Stefano Di Stefano*



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On-surface synthesis of nitrogen-doped nanographenes assisted by self-assembly

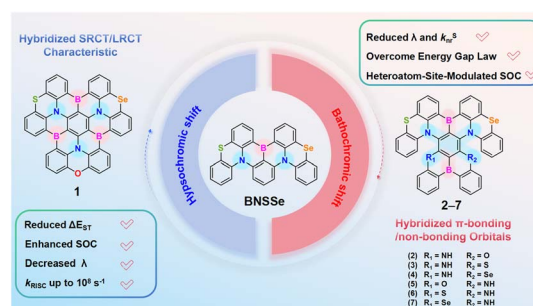
Maria Tenorio, Cesar Moreno,* Jesús Castro-Esteban, Manuel Vilas-Varela, Diego Peña* and Aitor Mugarza*



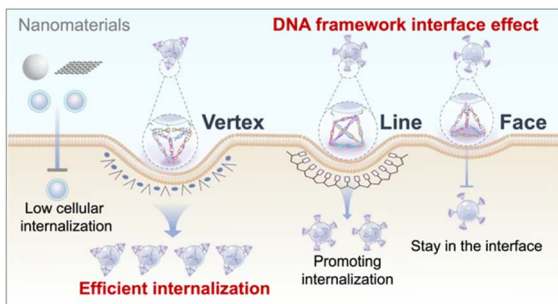
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Regulation of heteroatom positioning in multiple resonance thermally activated delayed fluorescence materials: performance optimization for blue/red emission

Lifang Yin, Yi Zhao, Qiang Gao, Yajun Yin, Tengfei He, Yufei Yang, Aimin Ren, Tongshun Wu, Hui Li and Luyi Zou*



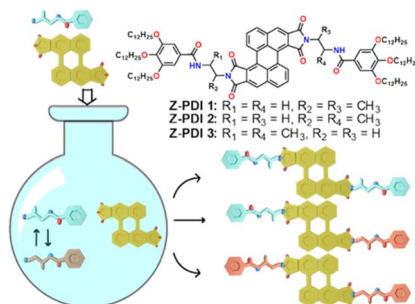
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Orientation of surface-immobilized DNA tetrahedron nanostructures dictates cell–material interaction

Haozhen Yu, Haoyue Lv, Ziyi Zhao, Siyi Duan, Xiaoman Duan and Biwu Liu*

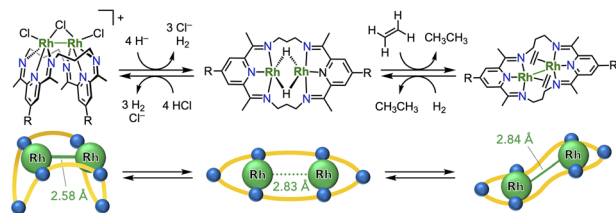
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Intramolecular transamidation enables one-pot synthesis of three chiral, Z-shaped perilenediimides for null-type supramolecular polymer formation

Alfonso J. Schwalb, Adrián Carreño, Fátima García and Luis Sánchez*

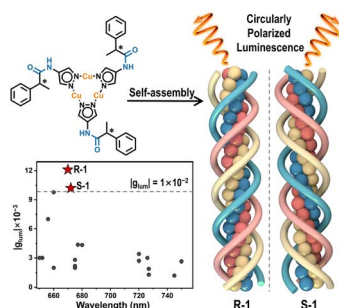
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Low-oxidation state dirhodium complex produced by four-electron reduction of dirhodium(II) complex supported by a flexible macrocyclic ligand

Liping Yan, Takumi Moriyama, Yutaro Akita, Satoshi Muratsugu, Mizuki Tada, Makoto Yamashita* and Yuma Morimoto*

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Triple-helical aggregates of copper(I) cyclic trinuclear complexes for circularly polarized luminescence

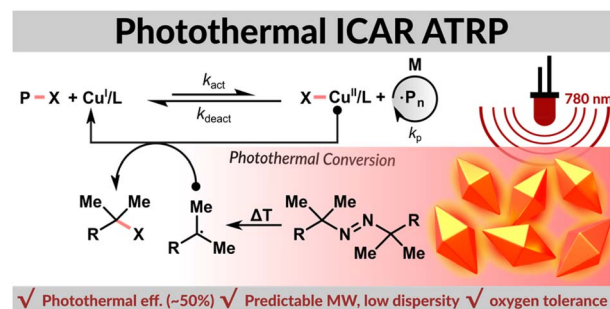
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Near-infrared-driven photothermal atom transfer radical polymerization

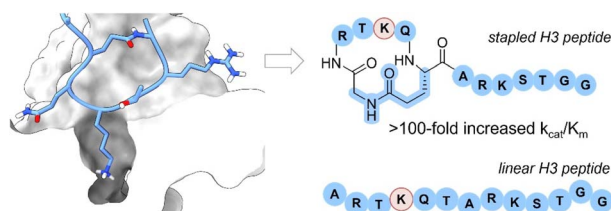
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Stapled histone H3 tails are super-substrates for lysine methyltransferase SETD7

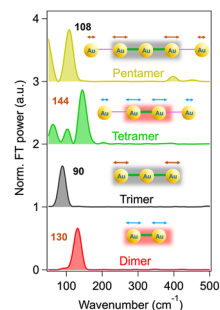
Nurgül Bilgin, Laust Moesgaard, Jacob Kongsted and Jasmin Mecinović*



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Localization of the Au–Au bond strength in the triplet excited state of the $[\text{Au}(\text{CN})_2]^-$ oligomers revealed by ultrafast time-domain Raman spectroscopy

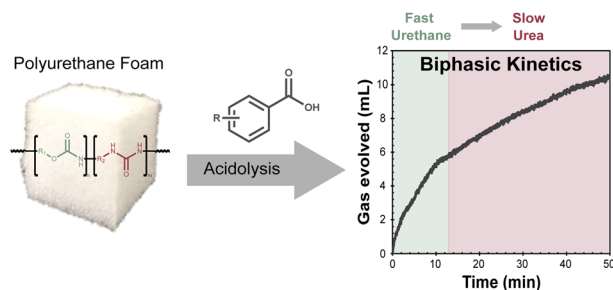
Li Liu, Hikaru Kuramochi, Munetaka Iwamura, Koichi Nozaki and Tahei Tahara*



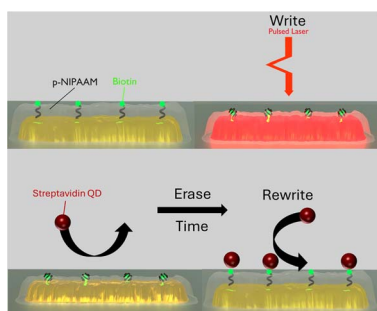
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Differentiating urethane and urea bond activation in polyurethane foam acidolysis

Madeleine Davis, Kelsey Richardson, Zach Westman, Alan L. Stottleyer, Christopher Letko, Nasim Hooshyar, Vojtech Vlcek,* Phillip Christopher* and Mahdi M. Abu-Omar*



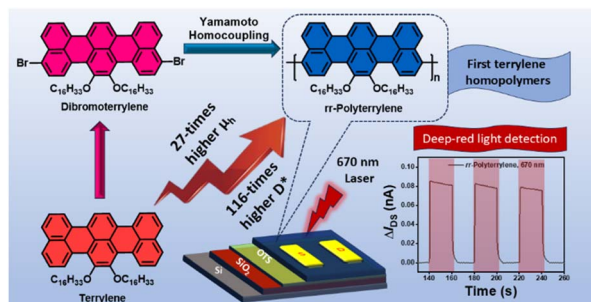
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Optical write–erase chemical memory state in plasmonic nanoarrays

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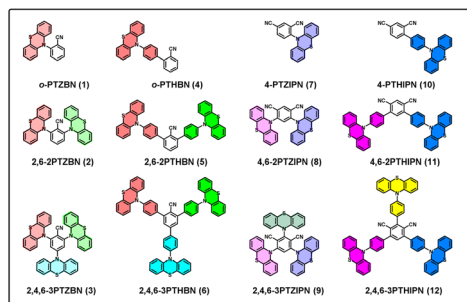
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Polyterrylenes: synthesis and regioregularity effect on p-type charge transport and deep-red light photodetection in OFETs

Chitrak Ghosh, Minji Chung, Hayeong Park, Aniket Jitendra Talreja, Ullrich Scherf, Joon Hak Oh* and Suman Kalyan Samanta*

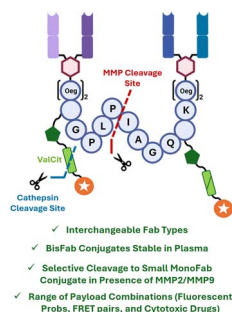
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Regulation and mechanisms of full-visible-spectrum emission in solid and liquid states for D-π-A cyanobenzene–phenothiazine fluorescent molecules

Wen-Hao Li, Meng-Yao Niu, Yi-Yun Zhu, Man Zhang, Hao-Yu Gao, Xin-Chao Zhang, Bo Yang,* Donghui Wei* and Xuenian Chen*

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MMP-cleavable linker platform for tumour-responsive homo- and heterobivalent antibody–drug conjugates

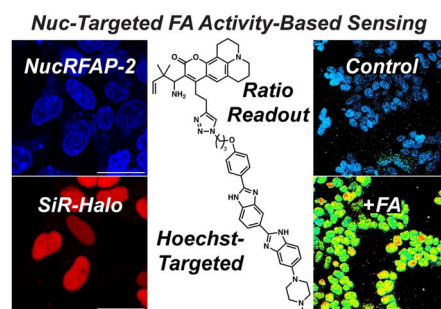
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A nuclear-targeted activity-based sensing probe for ratiometric imaging of formaldehyde reveals endogenous epigenetic contributors to the nuclear formaldehyde pool

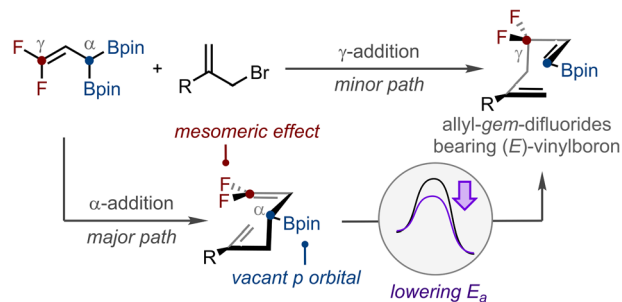
Logan Tenney, Kuo-Kuang Wen, Seong-Su Han, Yatin M. Vyas and Christopher J. Chang*



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Access to allyl-*gem*-difluorides via allylation and Cope rearrangement

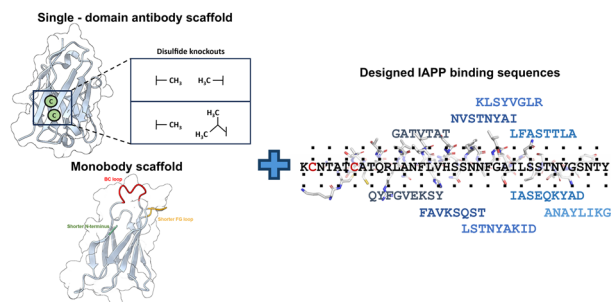
Haeun Kim, Seungcheol Han, Yunhui Jang, Yujin Jung and Seung Hwan Cho*



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Single-molecule imaging of small aggregates of IAPP in type 2 diabetes serum with rationally-designed antibody-like scaffolds

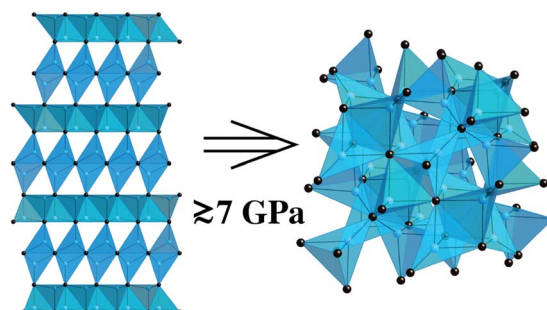
Jiacheng Lin, Yu P. Zhang, Sean Chia, David Klenerman,* Pietro Sormanni* and Michele Vendruscolo*



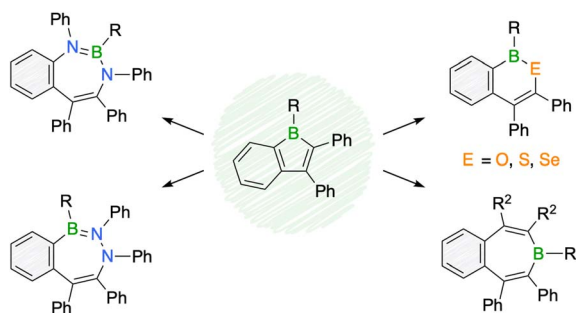
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Spinel-type Al_4C_3 attainable above 7 GPa and more high-pressure phases of Al_4C_3

Mitchell Falgout and Peter Kröll*



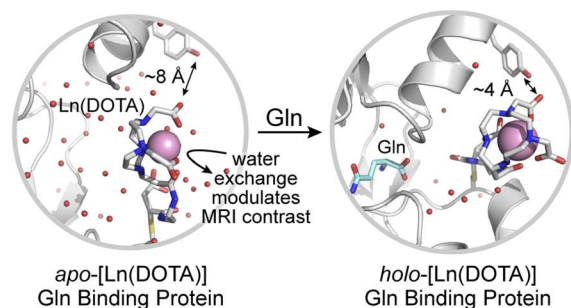
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Boraindenes as versatile precursors to benzannulated boron heterocycles

Nele Wieprecht, Ivo Krummenacher, Leonie Wüst, Maximilian Michel, Marco Neder, Andreas Häfner, Jordan Karg and Holger Braunschweig*

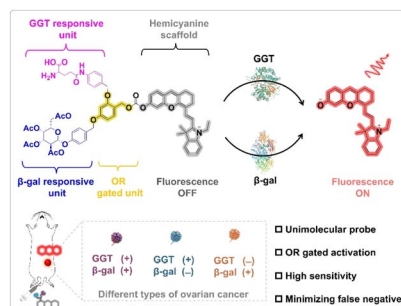
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Development of a glutamine-responsive MRI contrast agent

Charles A. Wilson, Austin T. Bruchs, Saman Fatima, David G. Boggs, Jennifer Bridwell-Rabb and Lisa Olshansky*

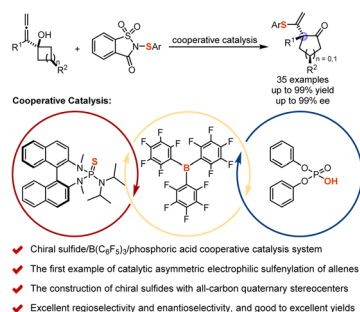
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A unimolecular near-infrared fluorescent probe for *in vivo* imaging of enzymes with minimized false-negative signals

Jinliang Han, Mingwang Yang,* Chengyuan Lv, Kang Li, Jiangli Fan* and Xiaojun Peng

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Chiral Lewis base/Lewis acid/Brønsted acid cooperative catalysis enabled regio- and enantioselective electrophilic sulfenylation/semipinacol rearrangement of allenols

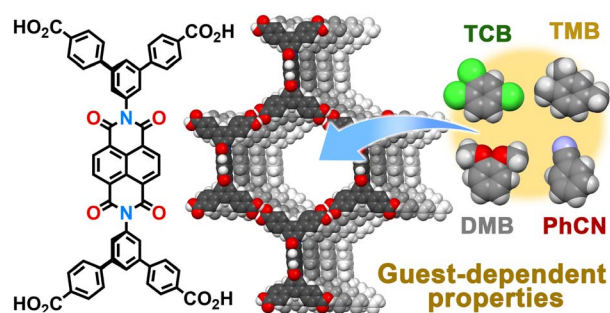
Zheng-Wei Wei, Qing-Yun Cai, Li-Miao Yang, Yu-Xuan Huo, Ze-Long Li, Xue-Qing Gong* and Zhi-Min Chen*



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A hydrogen-bonded organic framework possessing one-dimensional wide channels surrounded by the naphthalenediimide plane

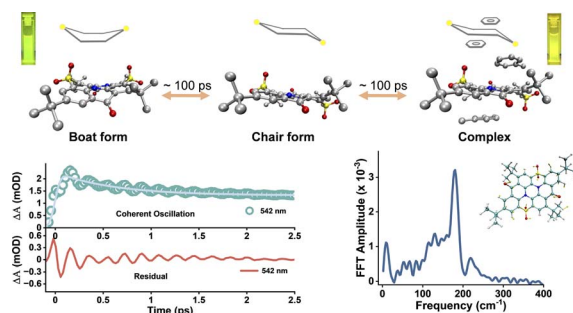
Yuzuki Murata, Taito Hashimoto, Ryusei Oketani, Miki Naruoka, Rajendra Prasad Paitandi, Norimitsu Tohnai, Shu Seki and Ichiro Hisaki*



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Dual conformational emission and vibrational coherence in a sulfone-embedded narrowband emitter

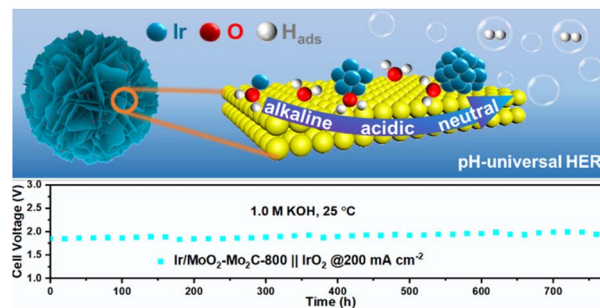
Simin Jiang, Yanmei He,* Guo-Xi Yang, Tönu Pullerits and Shi-Jian Su*



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Exposed high-concentration Ir active sites and metal-support interaction endow Ir/MoO₂-Mo₂C hybrids with high atom utilization and stability for pH-universal hydrogen evolution reaction

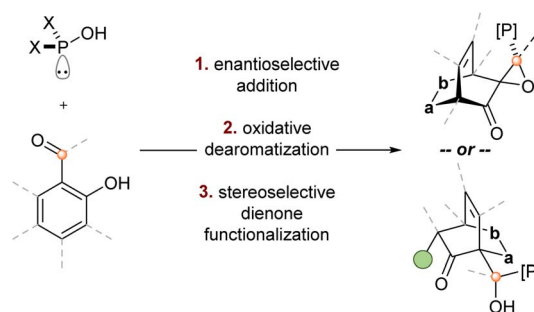
Yuehuan Zhang and Qiang Yuan*



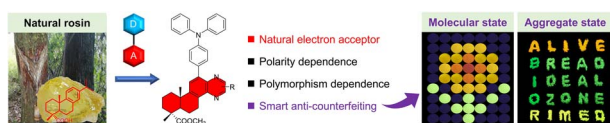
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Catalytic asymmetric P^(III)-additions to salicylaldehydes enable divergent stereoselective dearomatizations of phenols

Aidan J. Clarkson, Kimberly A. Alley, Bryn K. Werley, Jacob G. Robins, Shubin Liu and Jeffrey S. Johnson*



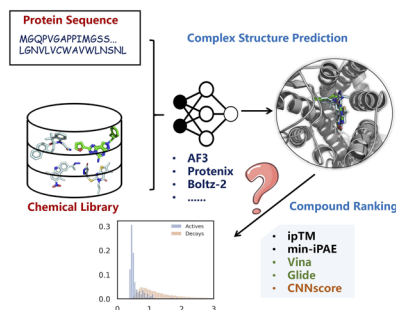
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From nature-inspired electron acceptors to BioAIE materials with polarity- and polymorphism-dependence for anti-counterfeiting

Dongmei Wang, Xiao Chen, Yuting Lin, Lulu Wu, Zhichen Zhao, Xu Xu, Shilong Yang, Jianyu Zhang,* Wen-Jin Wang, Zheng Zhao, Shifa Wang,* Ben Zhong Tang* and Xu-Min Cai*

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Unlocking the application potential of AlphaFold3-like approaches in virtual screening

Chao Shen,* Xujun Zhang, Shukai Gu, Odin Zhang, Qinghan Wang, Gang Du, Yihao Zhao, Linlong Jiang, Peichen Pan, Yu Kang, Qingwei Zhao, Chang-Yu Hsieh and Tingjun Hou*

