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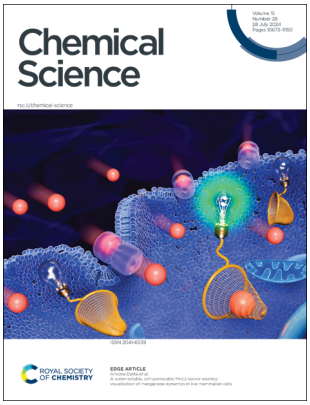

Inside cover
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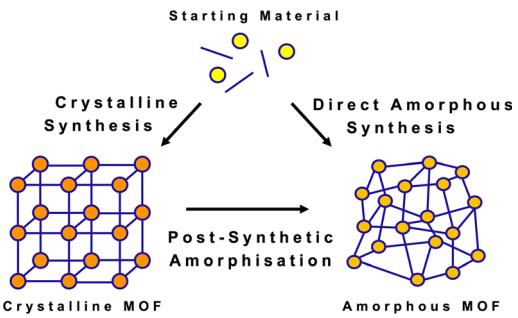
PERSPECTIVE

10689

Synthetic and analytical considerations for the preparation of amorphous metal–organic frameworks

Emily V. Shaw, Ashleigh M. Chester, Georgina P. Robertson, Celia Castillo-Blas and Thomas D. Bennett*

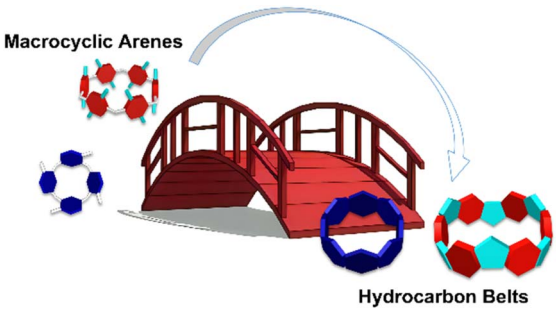


REVIEWS

10713

Construction of hydrocarbon belts based on macrocyclic arenes

Guangtan Fan, Zhi Zhang, Guangguo Wang, Li Shao, Bin Hua* and Feihe Huang*



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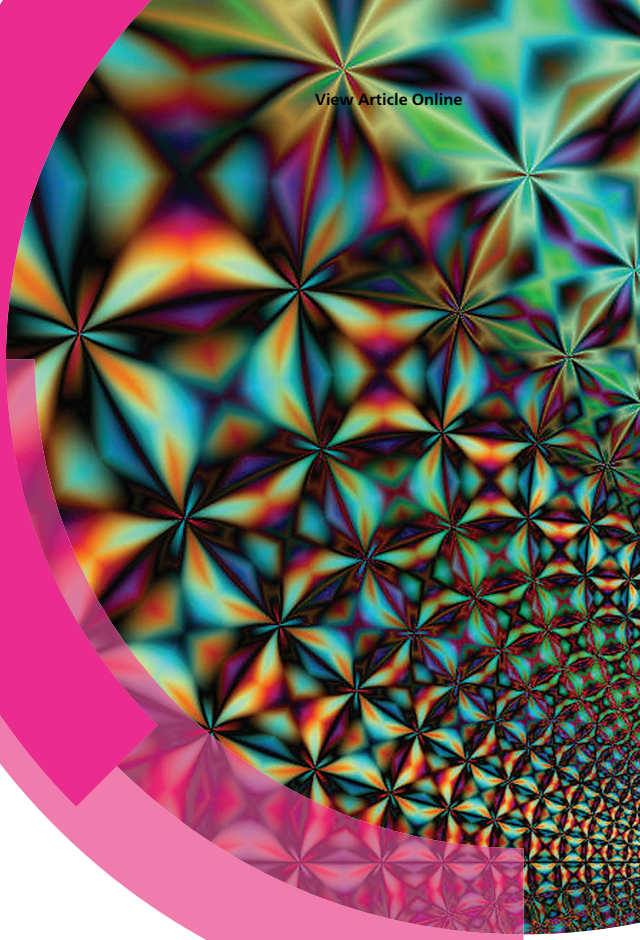

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REVIEWS

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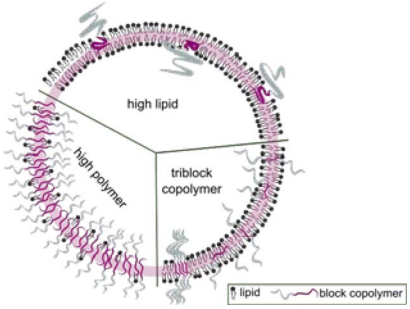
Advances in block copolymer-phospholipid hybrid vesicles: from physical–chemical properties to applications

Edit Brodszkij* and Brigitte Städler

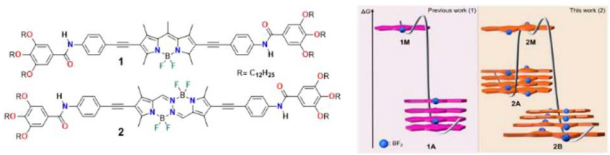


EDGE ARTICLES

10745

Pathway-dependent supramolecular polymerization by planarity breaking

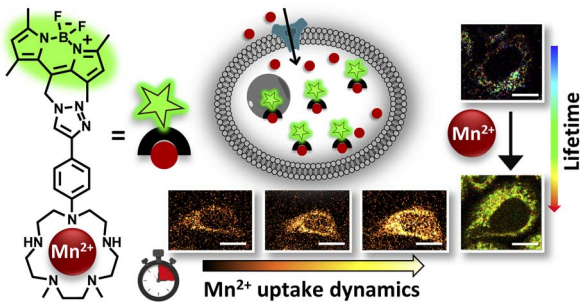
Rasitha Manha Veedu, Zulema Fernández, Nils Bäumer, Antonia Albers and Gustavo Fernández*



10753

A water-soluble, cell-permeable Mn(II) sensor enables visualization of manganese dynamics in live mammalian cells

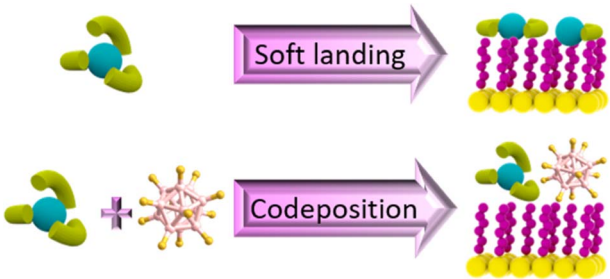
Smitaroopa Kahali, Sujit Kumar Das, Ravinder Kumar, Kunika Gupta, Rajasree Kundu, Baivabi Bhattacharya, Arnab Nath, Ravindra Venkatramani and Ankona Datta*



10770

Spontaneous ligand loss by soft landed $[Ni(bpy)_3]^{2+}$ ions on perfluorinated self-assembled monolayer surfaces

Hugo Y. Samayoa-Oviedo, Harald Knorke, Jonas Warneke* and Julia Laskin*



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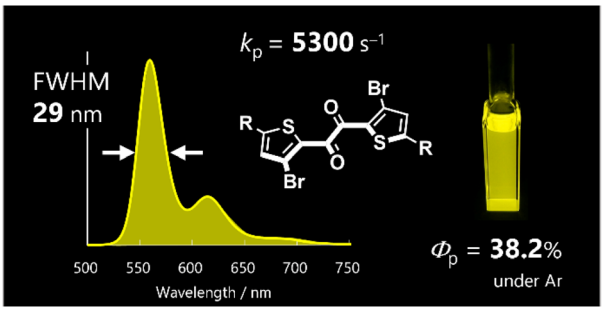
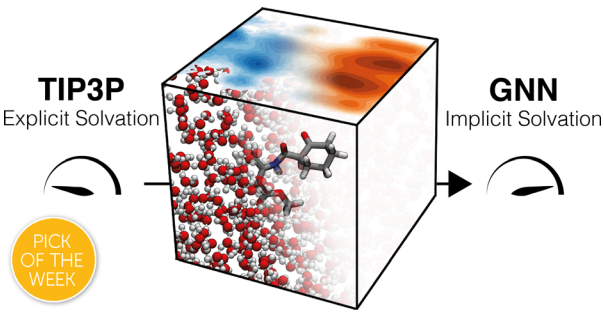


Fast, efficient, narrowband room-temperature phosphorescence from metal-free 1,2-diketones: rational design and the mechanism

Yosuke Tani,* Kiyoshi Miyata,* Erika Ou, Yuya Oshima, Mao Komura, Morihisa Terasaki, Shuji Kimura, Takumi Ehara, Koki Kubo, Ken Onda and Takuji Ogawa

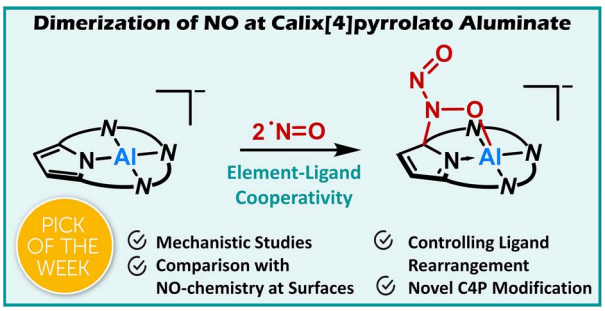
10794



A general graph neural network based implicit solvation model for organic molecules in water

Paul Katzberger and Sereina Riniker*

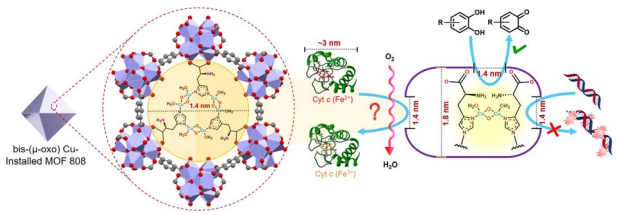
10803



Nitrogen monoxide and calix[4]pyrrolato aluminate: structural constraint enabled NO dimerization

Senta J. Kohl, Lukas M. Sigmund, Manuel Schmitt and Lutz Greb*

10810



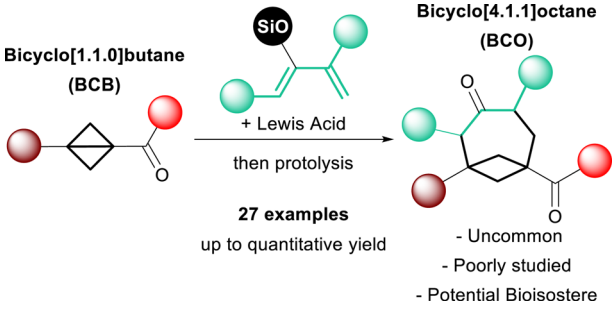
Approach of a small protein to the biomimetic bis-(μ-oxo) dicopper active-site installed in MOF-808 pores with restricted access perturbs substrate selectivity of oxidase nanozyme

Rasmi V. Morajkar, Adarsh P. Fatrekar and Amit A. Vernekar*

10823

Lewis acid catalyzed [4+2] annulation of bicyclobutanes with dienol ethers for the synthesis of bicyclo[4.1.1]octanes

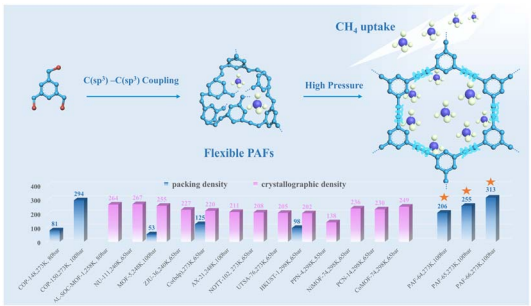
Stefano Nicolai* and Jérôme Waser*



10830

Flexible porous organic polymers constructed using C(sp^3)–C(sp^3) coupling reactions and their high methane-storage capacity

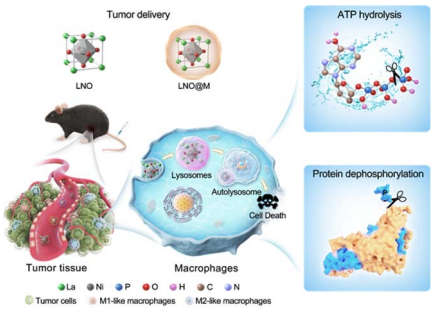
Shuang Zhou, Tianyu Qiu, He Wang, Boyan Tang, Yang Su, Tianhao Nan, Junchao Dong, Zihao Wang, Dongtao Liu* and Guangshan Zhu*



10838

A phosphatase-like nanomaterial promotes autophagy and reprograms macrophages for cancer immunotherapy

Didar Baimanov, Su Li, Xuejiao J. Gao, Rui Cai, Ke Liu, Junjie Li, Yuchen Liu, Yalin Cong, Xiaoyu Wang, Fen Liu, Qi Li, Guofang Zhang, Hui Wei, Jian Wang, Chunying Chen, Xingfa Gao,* Yang Li* and Liming Wang*



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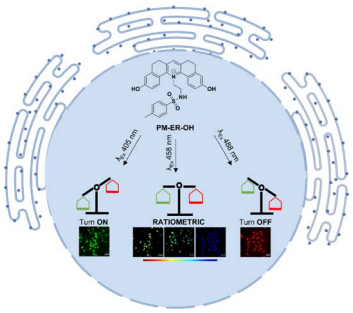
pH-Assisted multichannel heat shock monitoring in the endoplasmic reticulum with a pyridinium fluorophore

Sandip Chakraborty, Anivind Kaur Bindra, Anagha Thomas, Yanli Zhao* and Ayyappanpillai Ajayaghosh*



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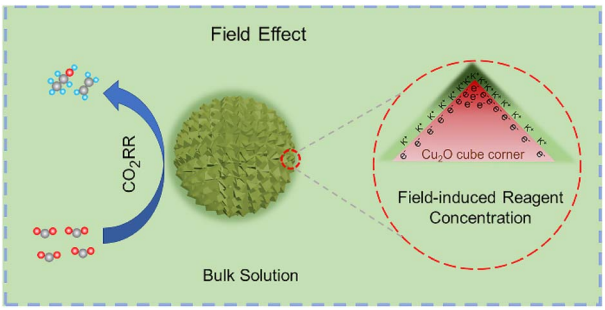
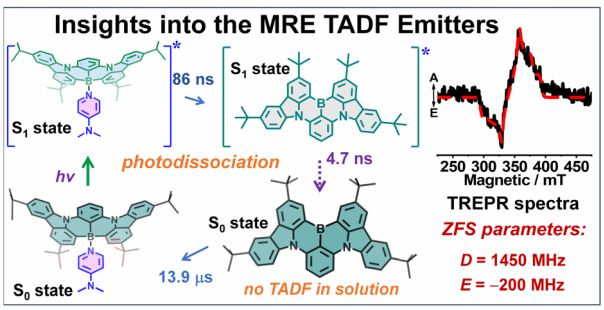


Enhancing local K^+ adsorption by high-density cube corners for efficient electroreduction of CO_2 to C_{2+} products

Hu Zang, Changjiang Liu, Qinyuan Ji, Jiahao Wang, Haiyan Lu, Nan Yu and Baoyou Geng*

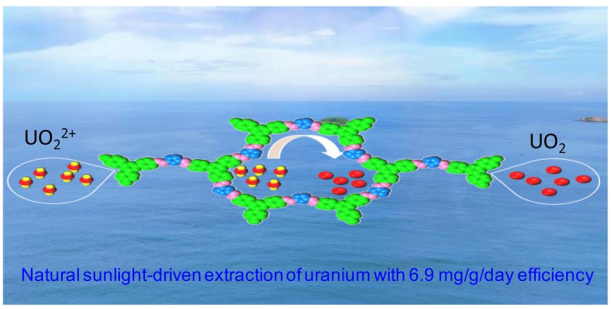
10867



Photophysics and photochemistry of thermally activated delayed fluorescence emitters based on the multiple resonance effect: transient optical and electron paramagnetic resonance studies

Xi Chen, Lei Sun, Andrey A. Sukhanov, Sandra Doria, Laura Bussotti, Jianzhang Zhao,* Haijun Xu,* Bernhard Dick,* Violeta K. Voronkova* and Mariangela Di Donato*

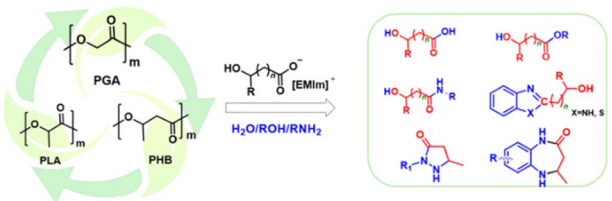
10882



An imidazole-based covalent-organic framework enabling a super-efficiency in sunlight-driven uranium extraction from seawater

Lizhen Zhong, Xuefeng Feng,* Qingyun Zhang, Xianqing Xie and Feng Luo*

10892



Hydroxyl carboxylate anion catalyzed depolymerization of biopolyesters and transformation to chemicals

Yanfei Zhao, Hui Zhang, Fengtian Wu,* Rongxiang Li, Minhao Tang, Yusi Wang, Wei Zeng, Buxing Han and Zhimin Liu*

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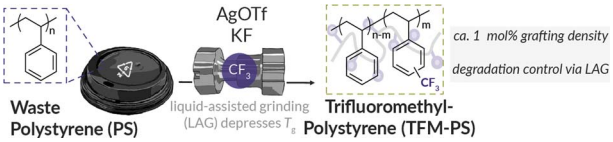
Liquid-assisted grinding enables a direct mechanochemical functionalization of polystyrene waste

Morgan E. Skala, Sarah M. Zeitler and Matthew R. Golder*



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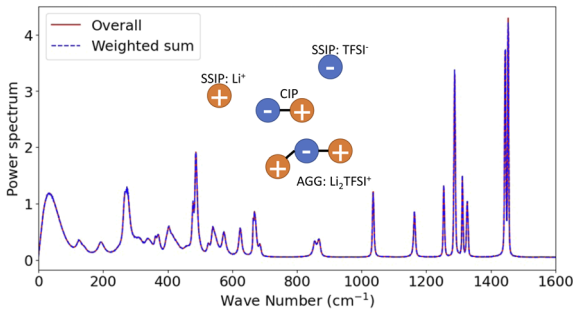
Cluster analysis as a tool for quantifying structure–transport properties in simulations of superconcentrated electrolyte

Sheng Bi and Mathieu Salanne*



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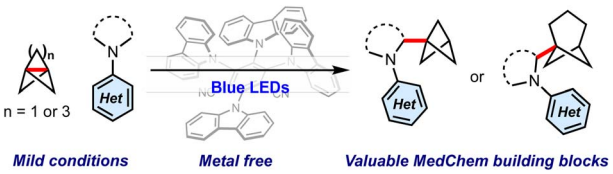
α-Amino bicycloalkylation through organophotoredox catalysis

Jeremy Nugent, Adrián López-Francés, Alistair J. Sterling, Min Yi Tay, Nils Frank, James J. Mousseau, Fernanda Duarte* and Edward A. Anderson*



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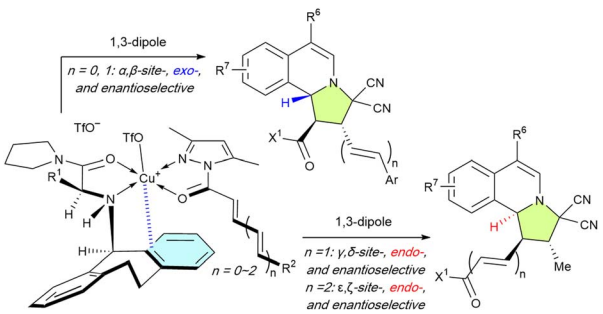
Chiral π–Cu(II)-catalyzed site-, *exo*/*endo*-, and enantioselective dearomative (3 + 2) cycloadditions of isoquinolinium ylides with enamides, dienamides, and a trienamide

Weiwei Guo, Jianhao Huang and Kazuaki Ishihara*



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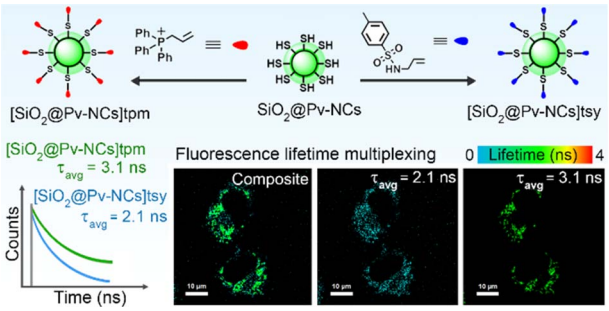
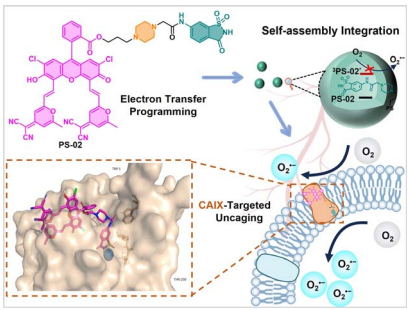


Surface functionalized perovskite nanocrystals: a design strategy for organelle-specific fluorescence lifetime multiplexing

Anik Kumar Dey, Subhadeep Das, Sharon Mary Jose, Sreejesh Sreedharan, Noufal Kandoth, Surajit Barman, Abhijit Patra,* Amitava Das* and Sumit Kumar Pramanik*

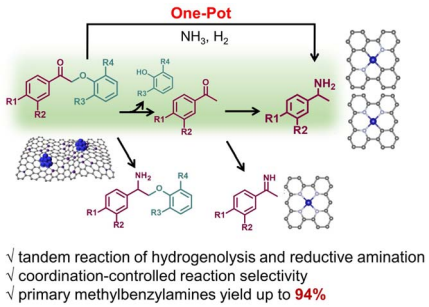
10945



Self-assembly-integrated tumor targeting and electron transfer programming towards boosting tumor type I photodynamic therapy

Wenlong Chen, Zehui Wang, Gaobo Hong, Jianjun Du, Fengling Song* and Xiaojun Peng

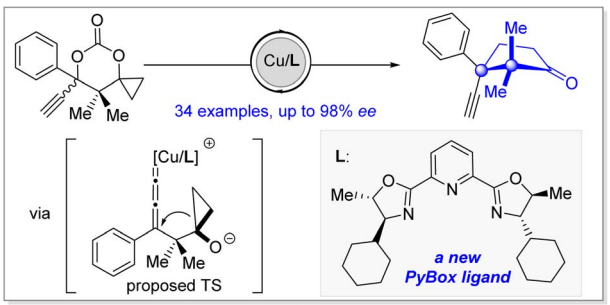
10954



Atomically dispersed cobalt catalysts for tandem synthesis of primary benzylamines from oxidized β-O-4 segments

Sen Luan, Wei Wu, Bingxiao Zheng, Yuxuan Wu, Minghua Dong, Xiaojun Shen, Tianjiao Wang, Zijie Deng, Bin Zhang, Bingfeng Chen, Xueqing Xing, Haihong Wu,* Huizhen Liu* and Buxing Han*

10963



Catalytic asymmetric intramolecular propargylation of cyclopropanols to access the cuparane core

Yankun Zhao, Hongya Yan, Yulian Zhang, Tao Zhou, Mengxing Tian, Chongzhou Zhang, Shan Yuan, Hanyue Qiu,* Ling He and Min Zhang*

EDGE ARTICLES

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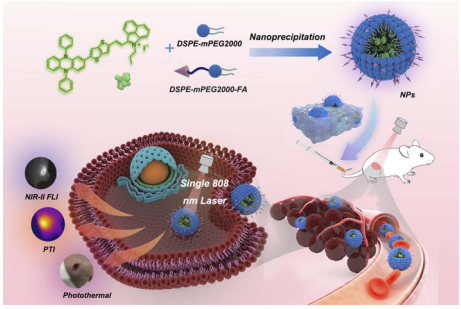
Dual-modal imaging-guided agent based on NIR-II aggregation-induced emission luminogens with balanced phototheranostic performance

Chengjun Dong, Ziwen Zhang, Hongyu Wu, Xinting Liang, Shihao Pang, Kehuan Wu, Jie Sun, Xuemei Dong, Lixin Sun, Xianfeng Gu* and Chunchang Zhao*



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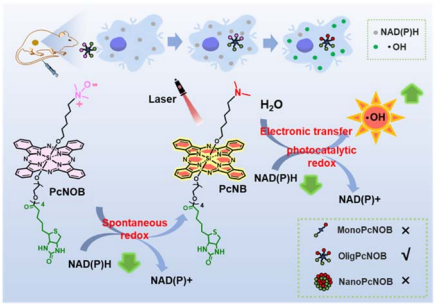
Efficient hydroxyl radical generation of an activatable phthalocyanine photosensitizer: oligomer higher than monomer and nanoaggregate

Li Li, Yalan Liao, Shuwen Fu, Zixuan Chen, Tinghe Zhao, Luyue Fang and Xingshu Li*



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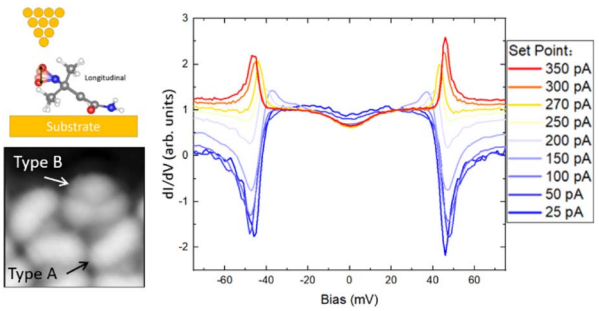
Large negative differential conductance and its transformation in a single radical molecule

Xiangqian Tang, Wenyu Wang, Haitao Tang, Muyu Wang, Xia Ye, Dong Hao, Jinyu Zhang, Xinyan Shan and Xinghua Lu*



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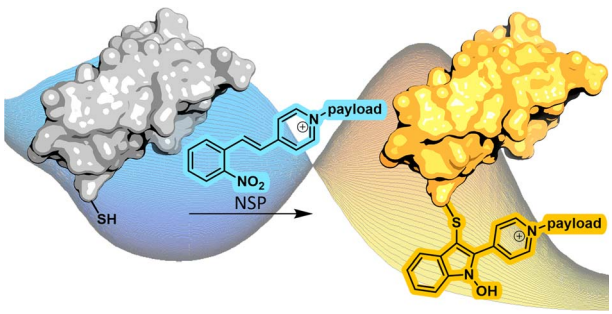
NSPs: chromogenic linkers for fast, selective, and irreversible cysteine modification

Yong Hua, Zhi Zou, Alessandro Prescimone, Thomas R. Ward, Marcel Mayor and Valentin Köhler*



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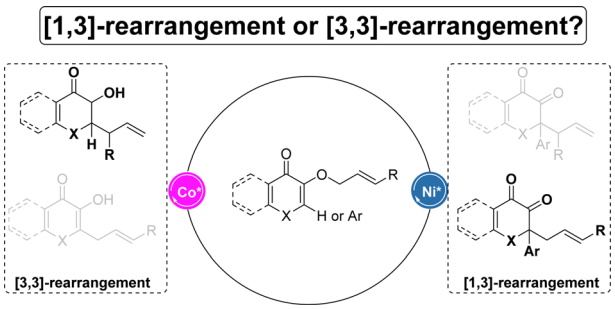
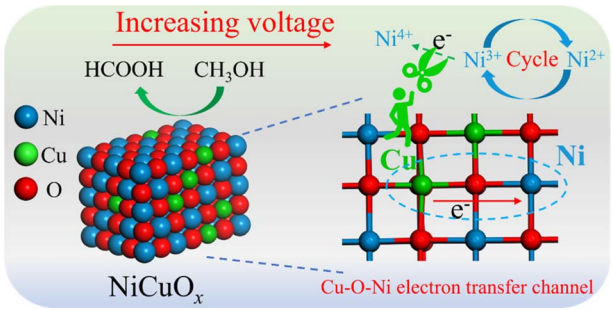


Asymmetric catalytic [1,3]- or [3,3]-sigmatropic rearrangement of 3-allyloxy-4*H*-chromenones and their analogues

Yi Li, Lichao Ning, Qi Tang, Kexin Lan, Bingqian Yang, Qianchi Lin, Xiaoming Feng* and Xiaohua Liu*

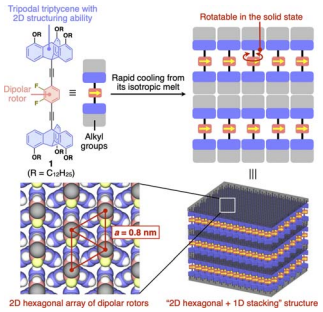
11013



Construction of an electron-transfer channel *via* Cu–O–Ni to inhibit the overoxidation of Ni for durable methanol oxidation at industrial current density

Han Tian, Xiaohan Wang, Wenshu Luo, Rundong Ma, Xu Yu, Shujing Li, Fantao Kong, Xiangzhi Cui* and Jianlin Shi

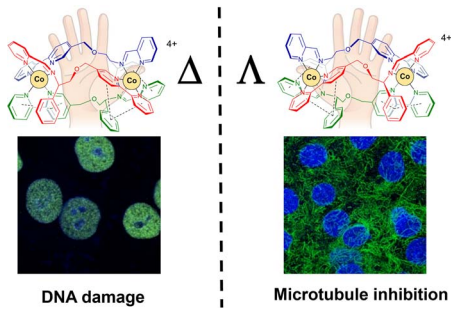
11021



2D hexagonal assembly of a dipolar rotor with a close interval of 0.8 nm using a triptycene-based supramolecular scaffold

Takejiro Ogawa, Fumitaka Ishiwari,* Fatin Hajjaj, Yoshiaki Shoji, Takashi Kajitani, Koji Yazawa, Takahiro Ohkubo and Takanori Fukushima*

11029



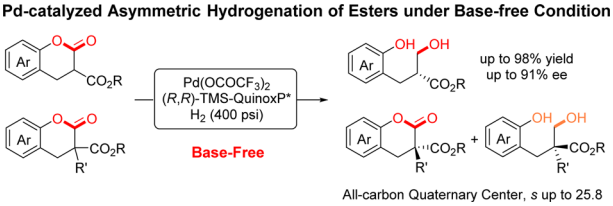
Dicobalt(II) helices kill colon cancer cells *via* enantiomer-specific mechanisms; DNA damage or microtubule disruption

Hualong Song,* Hana Kostrhunova, Jakub Cervinka, Julie Macpherson, Jaroslav Malina, Teena Rajan, Roger Phillips, Miles Postings, Samantha Shepherd, Xuejian Zhang, Viktor Brabec,* Nicola J. Rogers* and Peter Scott*

11038

Palladium-catalyzed asymmetric hydrogenation of lactones under base-free conditions

Han Wang, Shan-Shan Xun, Chang-Bin Yu* and Yong-Gui Zhou*



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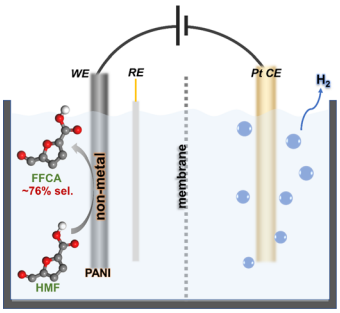
Selective electrooxidation of 5-hydroxymethylfurfural to 5-formyl-furan-2-formic acid on non-metallic polyaniline catalysts: structure–function relationships

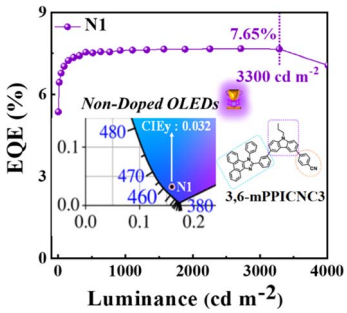
Xingyu Lu, Ke Qi, Xueya Dai, Yunlong Li, Di Wang, Jing Dou and Wei Qi*



11053

A record-high EQE of 7.65%@3300 cd m^{-2} achieved in non-doped near-ultraviolet OLEDs based on novel D′–D–A type bipolar fluorophores upon molecular configuration engineering

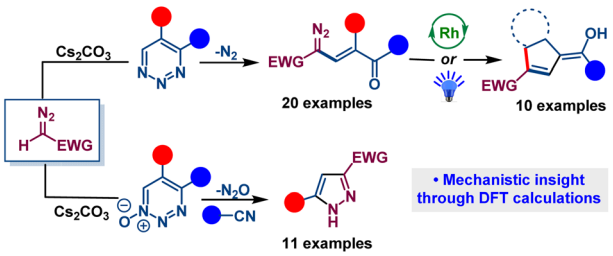
Haoyuan Qi, Danyu Xie, Zexuan Gao, Shengnan Wang, Ling Peng, Yuchao Liu, Shian Ying,* Dongge Ma* and Shouke Yan*



11065

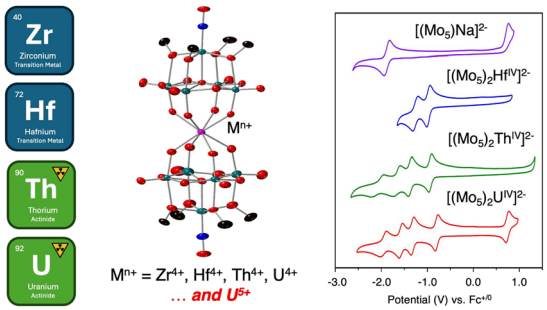
Denitrogenative dismantling of heteroaromatics by nucleophilic substitution reactions with diazomethyl compounds

Soumen Biswas, Claire Empel, Luis Mario Sanchez-Palestino, Hadi Arman, Rene M. Koenigs* and Michael P. Doyle*



EDGE ARTICLES

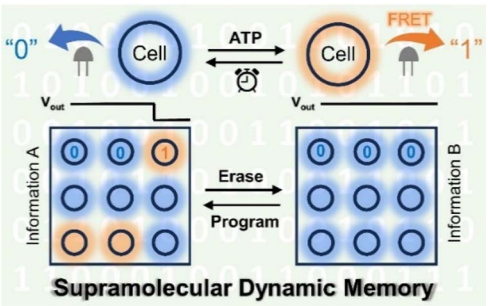
11072



Leveraging a reduced polyoxomolybdate-alkoxide cluster for the formation of a stable U(v) sandwich complex

Dominic Shiels,* William W. Brennessel, Matthew R. Crawley and Ellen M. Matson*

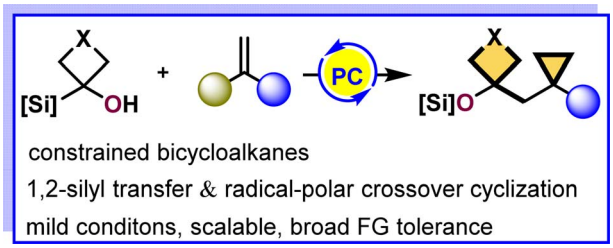
11084



An enzymolysis-induced energy transfer co-assembled system for spontaneously recoverable supramolecular dynamic memory

Xuanyu Wang, Zhao Gao* and Wei Tian*

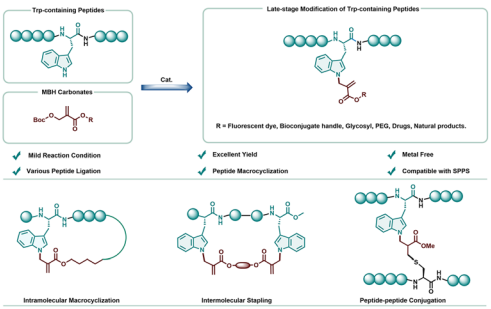
11092



Synthesis of constrained bicycloalkanes through bibase-promoted brook rearrangement/ radical-polar crossover cyclization

Xinke Ouyang, Bingyao Shi, Yuanyuan Zhao, Zhimin Zhu, Ziyang Li, Yuxin Yang and Chao Shu*

11099



Late-stage peptide modification and macrocyclization enabled by tertiary amine catalyzed tryptophan allylation

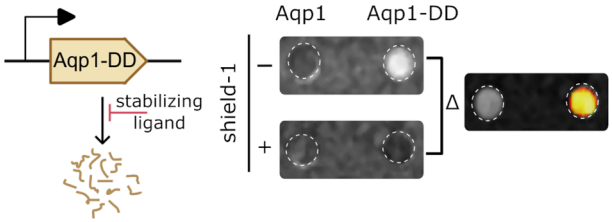
Yuyang Liu, Guofeng Li, Wen Ma, Guangjun Bao, Yiping Li, Zeyuan He, Zhaoqing Xu,* Rui Wang* and Wangsheng Sun*

EDGE ARTICLES

11108

Destabilized reporters for background-subtracted, chemically-gated, and multiplexed deep-tissue imaging

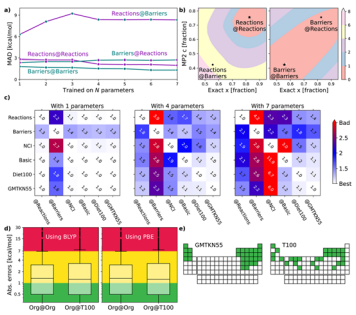
Jason Yun, Yimeng Huang, Austin D. C. Miller, Brandon L. Chang, Logan Baldini, Kaamini M. Dhanabalan, Eugene Li, Honghao Li and Arnab Mukherjee*



11122

Identifying and embedding transferability in data-driven representations of chemical space

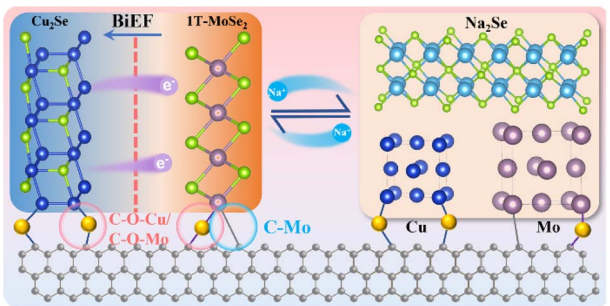
Tim Gould, Bun Chan, Stephen G. Dale and Stefan Vuckovic*



11134

A dual heterostructure enables the stabilization of 1T-rich $MoSe_2$ for enhanced storage of sodium ions

Yunfeng Chao, Shenghui Jia, Jinzhao Li, Guohui Chen, Lu Liu, Fei Tang, Jianhua Zhu,* Caiyun Wang* and Xinwei Cui



CORRECTIONS

11145

Correction: Convergent synthesis of thiodiazole dioxides from simple ketones and amines through an unusual nitrogen-migration mechanism

Kunlayanee Punjajom, Paul P. Sinclair, Ishika Saha, Mark Seierstad, Michael K. Ameriks, Pablo García-Reynaga,* Terry P. Lebold* and Richmond Sarpong*

CORRECTIONS

11148

Correction: Investing in entropy: the strategy of cucurbit[*n*]urils to accelerate the intramolecular Diels–Alder cycloaddition reaction of tertiary furfuryl amines

Karen de la Vega-Hernández, Marcos G. Suero* and Pablo Ballester*