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See Tsutomu Yokozawa
et al., pp. 13139-13142.

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CONFERENCE REPORT

13083

Highlights from *Faraday Discussion: Astrochemistry at high resolution*, Baltimore, USA, May 2023

Olivia Wilkins,* Divita Gupta and Mathieu Bertin

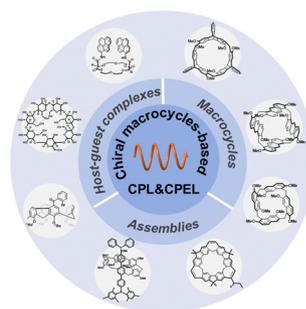


FEATURE ARTICLES

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Advances in circularly polarized luminescence materials based on chiral macrocycles

Jia-Qi Wang, Xiao-Ni Han, Ying Han* and Chuan-Feng Chen*



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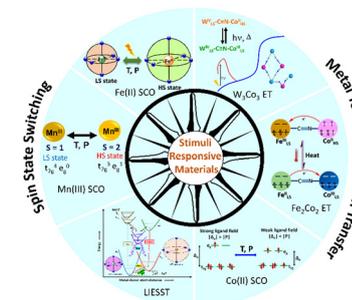


FEATURE ARTICLES

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Stimuli-responsive magnetic materials: impact of spin and electronic modulation

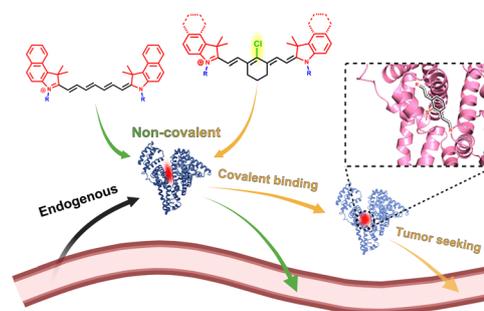
Krishna Kaushik, Sakshi Mehta,* Mayurika Das, Sounak Ghosh, Sujit Kamilya and Abhishake Mondal*



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Site-specific albumin tagging with chloride-containing near-infrared cyanine dyes: molecular engineering, mechanism, and imaging applications

Qi Su, Yuewei Zhang* and Shoujun Zhu*

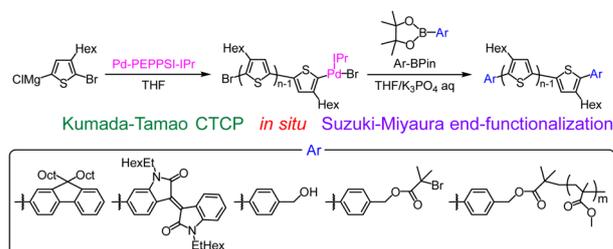


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Tandem Kumada–Tamao catalyst-transfer condensation polymerization and Suzuki–Miyaura coupling for the synthesis of end-functionalized poly(3-hexylthiophene)

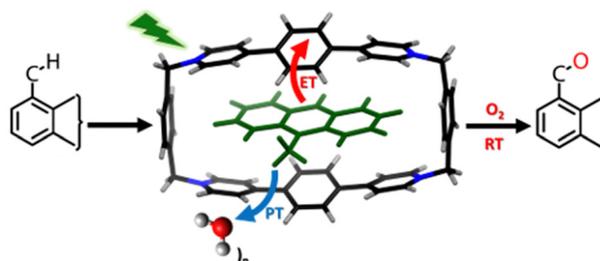
Yu Tokita, Tatsuya Uchida, Takeru Kamigawara, Kenta Hoka, Reo Nitto, Yoshihiro Ohta and Tsutomu Yokozawa*



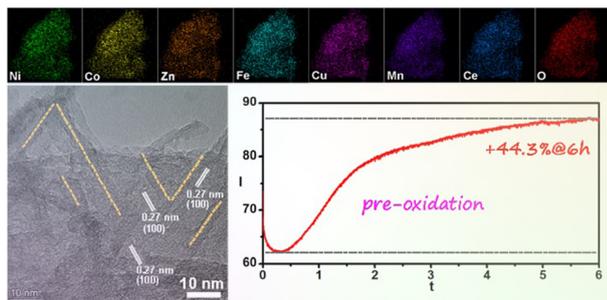
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Visible light-mediated C(sp³)-H bond functionalization inside an all-organic nanocavity

Debojyoti Roy, Sunandita Paul and Jyotishman Dasgupta*



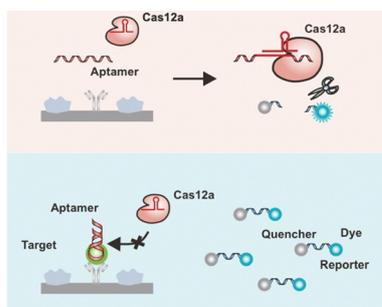
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High-entropy wire-on-sheet nanoarray catalyst with boosted pre-oxidation for efficient oxygen evolution reaction

Min Hao, Jing Chen, Zimeng Liu, Xiaoning Sun, Shanshan Liu, Fengcai Lei, Xu Sun, Junfeng Xie* and Bo Tang

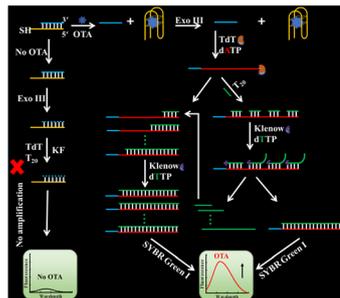
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trans-Cleavage of the CRISPR-Cas12a-aptamer system for one-step antigen detection

Hongxuan Fan, Shi-hua Luo, Ying Zhu, Jiye Shi, Fangfei Yin* and Jiang Li*

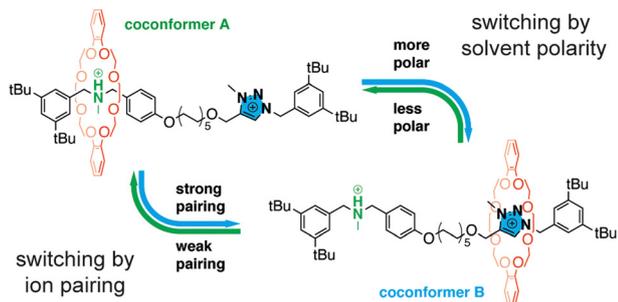
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Target-initiated fluorescent aptasensor based on multisite strand displacement amplification for label-free detection of ochratoxin A

Dandan Zhang, Xiangyue Cai, Qian Zhang and Chunyang Zhang*

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Controlling molecular shuttling in a rotaxane with weak ring recognition sites

Nina Bukhtiarova, Alberto Credi* and Stefano Corra*

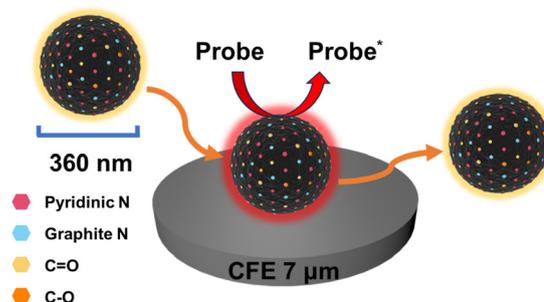


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Insight into active sites of nitrogen-doped carbon catalyst by stochastic collision electrochemistry

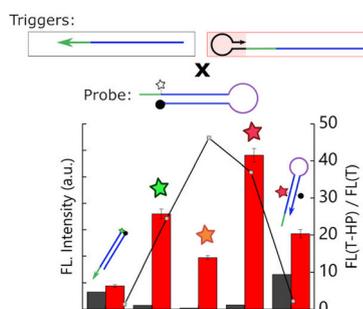
Jianwei Zong, Wenjie Wu, Lanqun Mao and Ping Yu*



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Design strategies for countering the effect of fluorophore-quencher labelling on DNA hairpin thermodynamics

Yan Shan Ang and Lin-Yue Lanry Yung*



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Selective and benign alkylation of sulfido-oxo stannate clusters with propyl, pentyl, or hexyl substituents

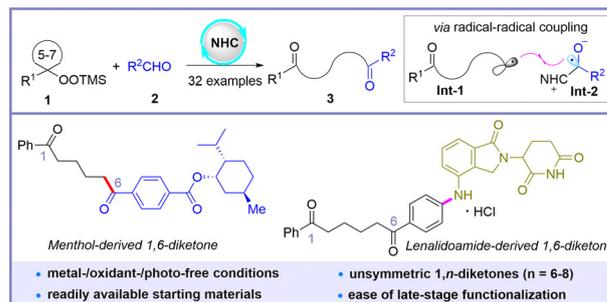
Gina Stuhmann, Jannik Schneider, Kilian Schmidt and Stefanie Dehnen*



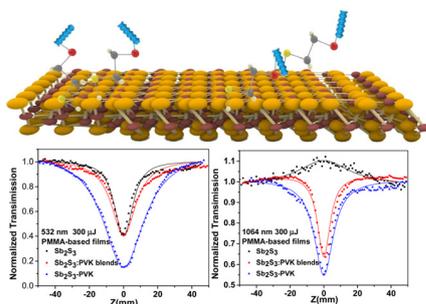
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NHC-catalyzed radical acylation of cycloalkyl silyl peroxides to access 1,6-, 1,7-, and 1,8-diketones

Chaolei Liu, Jingyi Wang, Xinlong Liu, Jie Feng* and Ding Du*



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Covalent functionalization of Sb_2S_3 with poly(*N*-vinylcarbazole) for solid-state broadband laser protection

Guangwei Li, Ningning Dong, Xinzhu Wang,*
Xibin Shen, Jun Wang* and Yu Chen*

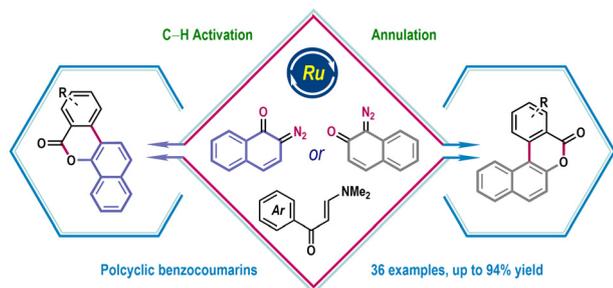
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Constructing a carboxyl-rich angstrom-level trap in a metal-organic framework for the selective capture of lithium

Xinxin Gao, Rui Ding, Hongliang Huang,* Baosheng Liu*
and Xudong Zhao*

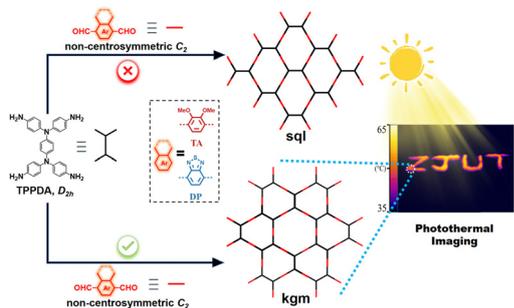
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Enaminone-directed ruthenium(II)-catalyzed C-H activation and annulation of arenes with diazonaphthoquinones for polycyclic benzocoumarins

Sudeshna Mondal, Chandan Kumar Giri and
Mahiuddin Baidya*

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Kagome-topology 2D covalent organic frameworks assembled from D_{2h} -symmetric and non-centrosymmetric C_2 -symmetric blocks for photothermal imaging

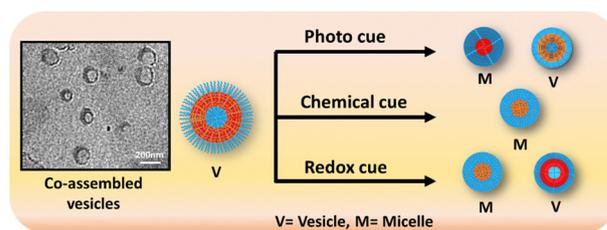
Jiahao Li, Guinan Chen, Chunhong Chen, Yuanyuan Lou,
Zhihao Xing, Tao Zhang, Chengtao Gong and
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Orthogonal chain collapse in stimuli-responsive di-block polymers leading to self-sorted nanostructures

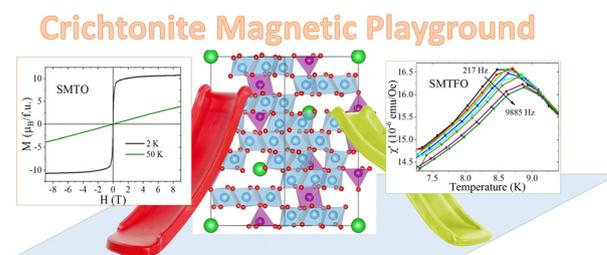
Chirag Miglani, Maqsuma Banoo, Debasish Nath, Jaharvi Ralhan, Soma Sil, Jojo P. Joseph, Santanu K. Pal, Ujjal Gautam* and Asish Pat*



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Ferrimagnetic and spin glass behaviour in $\text{SrMn}^{2+}_3\text{Ti}^{4+}_{14}\text{M}^{3+}_4\text{O}_{38}$ (M = Ti and Fe) synthetic crichtonites

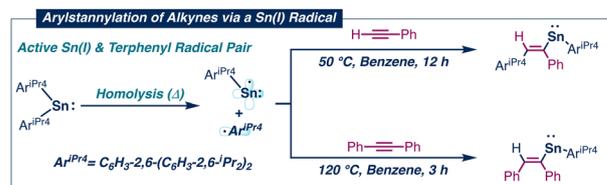
José Luis Rosas-Huerta,* Ruiqi Chen, Clemens Ritter, Oleg Siidra, Marie Colmont and Angel M. Arévalo-López*



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Sn(II)–carbon bond reactivity: radical generation and consumption *via* reactions of a stannylene with alkynes

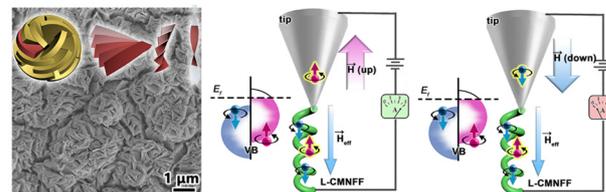
Wenxing Zou, Kristian L. Mears, James C. Fettinger and Philip P. Power*



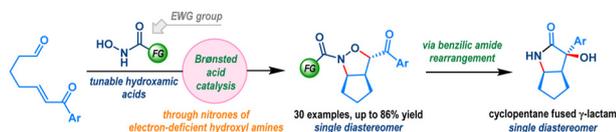
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Chiral mesostructured NiFe_2O_4 films with chirality induced spin selectivity

Yiping Zhou, Te Bai and Yingying Duan*



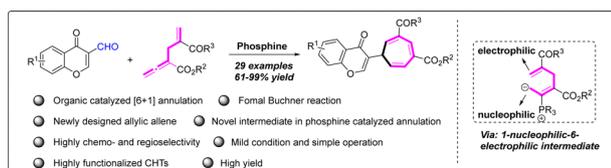
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Brønsted acid-catalyzed annulation reaction of hydroxamic acids: synthesis of cyclopentane-fused isoxazolidines and their benzilic amide rearrangement

Swati Lekha Mondal, Vinod Bhajammanavar, Isai Ramakrishna and Mahiuddin Baidya*

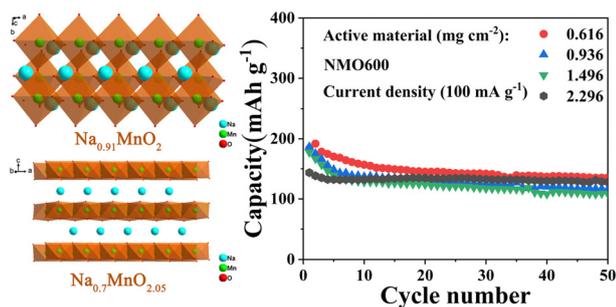
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Phosphine-catalyzed formal Buchner [6+1] annulation: *de novo* construction of cycloheptatrienes

Jingxiong Lai and You Huang*

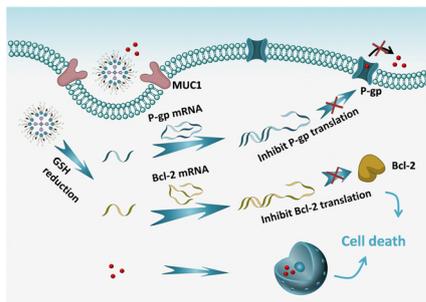
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High-performance heterostructure $\text{Na}_{0.7}\text{MnO}_{2.05}$ - $\text{Na}_{0.91}\text{MnO}_2$ as a lithium-free cathode for lithium-ion batteries

Tianfeng Gao, Yanjun Cai,* Qingrong Kong, Hualing Tian, Xiang Yao and Zhi Su*

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High-order framework nucleic acid for targeted-delivery of antisense peptide nucleic acids to overcome drug resistance

Shu Xing, Xiaoqian Lan, Jiaqian Zhang, Meng Li and Bing Wang*

