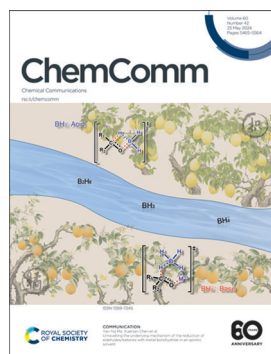


IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 60(42) 5465-5564 (2024)



Cover

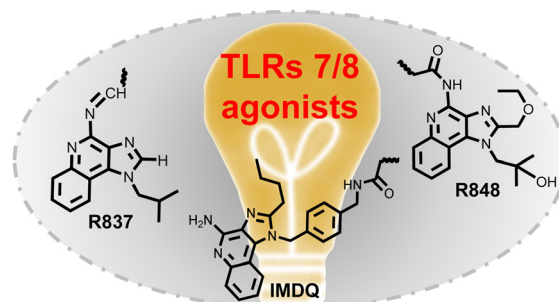
See Yan-Na Ma,
Xuenian Chen *et al.*,
pp. 5486-5489.
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Chem. Commun.,
2024, 60, 5486.

FEATURE ARTICLE

5474

Molecule engineering strategy of toll-like receptor 7/8 agonists designed for potentiating immune stimuli activation

Liuwei Gu, Xiaojie Kong, Mengyan Li, Rui Chen, Ke Xu, Guo Li,* Yulin Qin* and Li Wu*

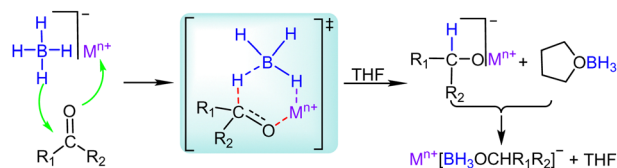


COMMUNICATIONS

5486

Unravelling the underlying mechanism of the reduction of aldehydes/ketones with metal borohydride in an aprotic solvent

Xinying Li, Jia-Xin Kang, Shasha Liang, Xi-Hong Long, Yan-Na Ma* and Xuenian Chen*



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Fundamental questions
Elemental answers

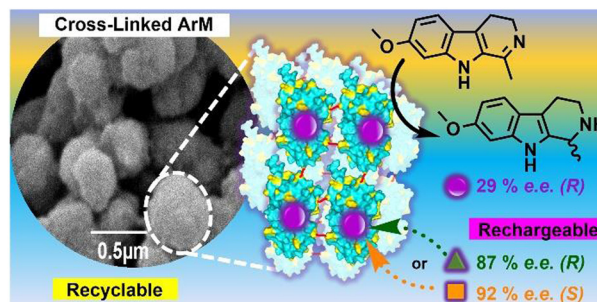


COMMUNICATIONS

5490

Redox-reversible siderophore-based catalyst anchoring within cross-linked artificial metalloenzyme aggregates enables enantioselectivity switching

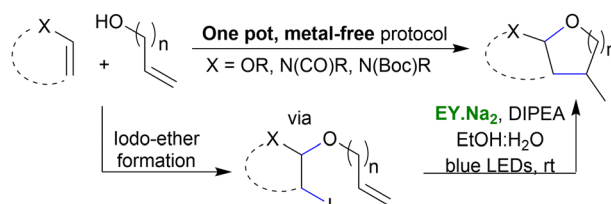
Alex H. Miller,* Seán A. Thompson, Elena V. Blagova, Keith S. Wilson, Gideon Grogan and Anne-K. Duhme-Klair*



5494

Eosin, blue LEDs and DIPEA are employed in a simple synthesis of (poly)cyclic O,O- and N,O-acetals

Ioannis Papadopoulos, Artemis Bosveli, Tamsyn Montagnon, Ioannis Zachilas, Dimitris Kalaitzakis and Georgios Vassilikogiannakis*

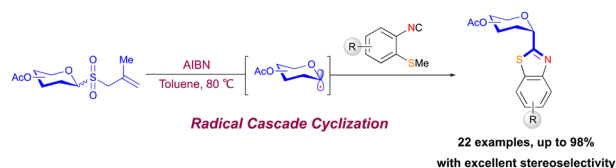


- green solvent (EtOH) and LEDs as source of visible spectrum light
- mild and widely applicable conditions for formation of the radical

5498

Preparing glycosyl benzothiazoles from 2-isocyanoaryl thioethers and glycosyl radicals under thermal conditions

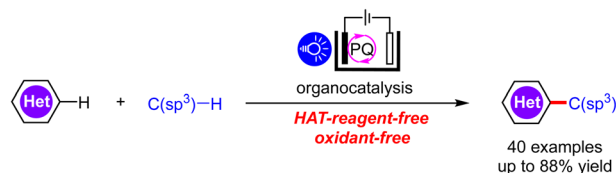
Daqi Liu, Yang Zhang* and Dawen Niu*



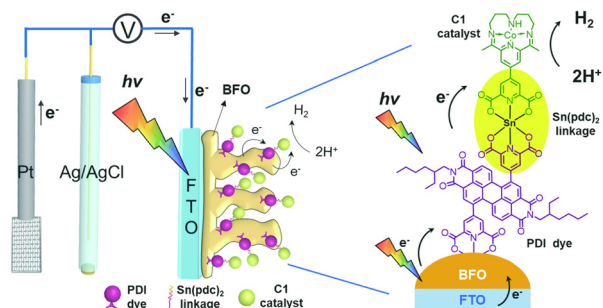
5502

Organophotoelectrocatalytic C(sp²)-H alkylation of heteroarenes with unactivated C(sp³)-H compounds

Qinhui Wan, Xia-Die Wu, Zhong-Wei Hou,* Yongmin Ma and Lei Wang*



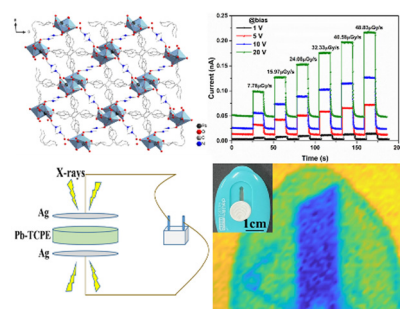
5506



Promoting H₂ generation of BiFeO₃ photocathodes by a catalyst-sensitizer dyad linked with Sn(dipicolinate)₂

Meiqi Yan, Yingzheng Li, Chang Liu, Ziqi Zhao, Yu Shan, Fei Li, Licheng Sun and Fusheng Li*

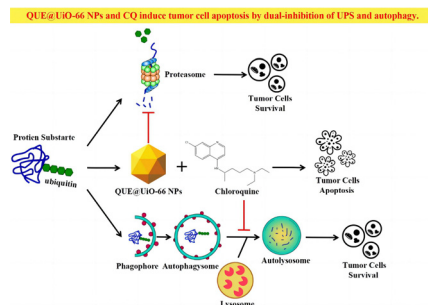
5510



Tetraphenylene-based semiconductive metal-organic framework crystals for direct X-ray detection and imaging

Qi Luo, Yuxia Li, Xin Huang, Yi Zheng, Qi Gu,* Shuaihua Wang* and Shaofan Wu

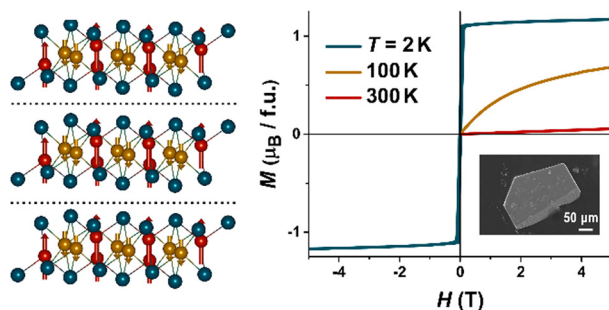
5514



Quercetin@UiO-66 NPs and chloroquine in combined tumor therapy by dual autophagy-ubiquitination system blockade

Yinzhu Chen, Feiyi Yan, Yue Yang, Lipeng Zhang, Xuepeng Teng,* Shuaiyu Wang* and Tianlong Liu*

5518



Bulk ferromagnetism in cleavable van der Waals telluride NbFeTe₂

Anna V. Stepanova, Andrei V. Mironov, Alexey V. Bogach, Andrey N. Azarevich, Igor A. Presniakov, Alexey V. Sobolev, Denis A. Pankratov, Vladimir A. Zayakhanov, Sergey S. Starchikov, Valeriy Yu. Verchenko* and Andrei V. Shevelkov

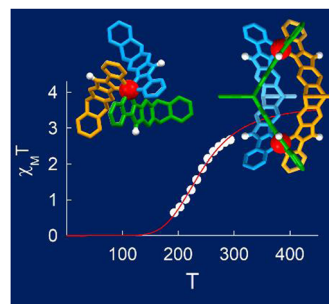


COMMUNICATIONS

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Triptycene-based diiron(II) mesocates: spin-crossover in solution

Riccardo Mobili,* Giovanni Preda, Daniele Dondi, Enrico Monzani, Dhanalakshmi Vadivel, Chiara Massera, Dario Pasini and Valeria Amendola*



5526

Dehalogenative deuteration of alkyl and aryl bromides by thiyl radical catalysis under visible-light irradiation

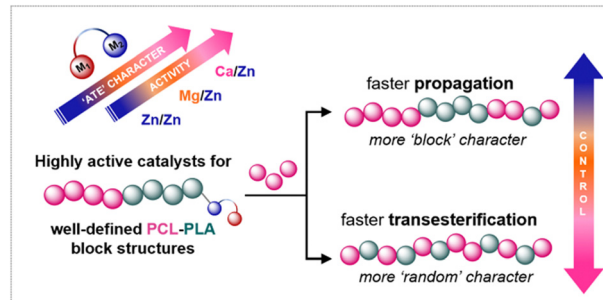
Jiin Lee and Sunggi Lee*



5530

Cooperative heterometallic catalysts: balancing activity and control in PCL-*block*-PLA copolymer synthesis

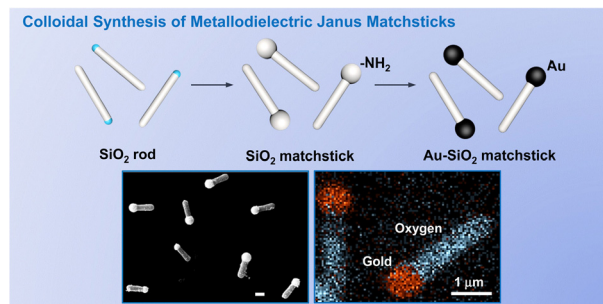
Maisarah Abdul Rahman, Thomas J. Neal and Jennifer A. Garden*



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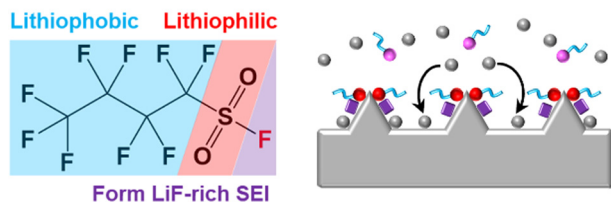
Colloidal synthesis of metallodielectric Janus matchsticks

Yijiang Mu, Wendi Duan, Yuxuan Dai, Patrick A. Sullivan, Leila F. Deravi, Yufeng Wang and Daeyeon Lee*



5538

NtF additive



A bifunctional surfactant-like electrolyte additive for a stable lithium metal anode

Hanxu Yang,* Jiahang Zou and Zhengquan Xiao

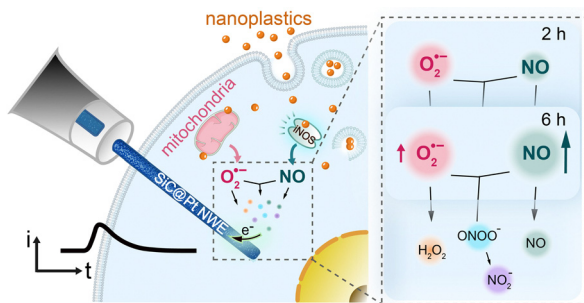
5542



Unprecedented ROP of quinazolinones to polyacylamidines using a cesium catalyst

Shweta Sagar, Priyanku Nath, Devadkar Ajitrao Kisan, Himadri Karmakar, Aranya Ray, Alok Sarkar* and Tarun K. Panda*

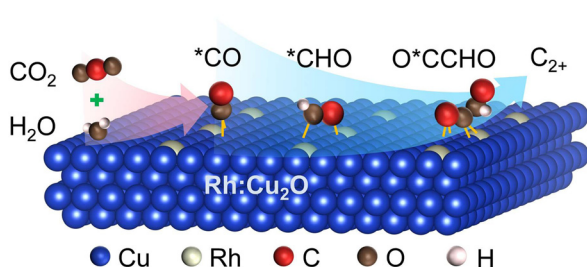
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Nanoelectrochemistry monitoring of intracellular reactive oxygen and nitrogen species induced by nanoplastic exposure

Hui-Qian Wu, Yu-Ting Qi, Bing-Yi Guo, Yi Zhao, Xin-Wei Zhang* and Wei-Hua Huang*

5550

Promoted C-C coupling on Rh:Cu₂OPromoting C–C coupling for CO₂ reduction on Cu₂O electrocatalysts with atomically dispersed Rh atoms

Chengcheng Feng, Ruizhi Duan, Haibo Chi, Fengyuan Liu, Rui Song, Mingrun Li, Wenguang Yu, Chunmei Ding* and Can Li*

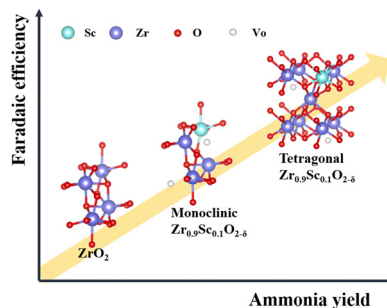


COMMUNICATIONS

5554

Crystalline modulation of zirconia for efficient nitrate reduction to ammonia under ambient conditions

Zhiruo Tao, Haitao Yin, Yaxin Lv, Haoran Guo,*
Jun Song Chen, Xiaoyu Ye, Haohong Xian,*
Shengjun Sun and Tingshuai Li*



5558

Palladium/norbornene-catalyzed diversified trifunctionalization of aryl-thianthreniums

Jiang Nan,* Min Lei, Gaoyang Chen, Yangmin Ma,
Chengyuan Liang and Jing Wang

