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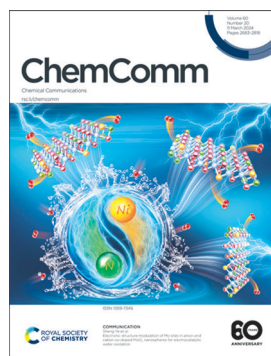
Chemical Communications

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IN THIS ISSUE

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Cover

See Sheng Ye *et al.*, pp. 2744–2747. Image reproduced by permission of Sheng Ye from *Chem. Commun.*, 2024, 60, 2744.



Inside cover

See Jianxi Ying *et al.*, pp. 2748–2751. Image reproduced by permission of Jianxi Ying from *Chem. Commun.*, 2024, 60, 2748.

PROFILE

2693

Contributors to the Pioneering Investigators collection 2023: Part 3

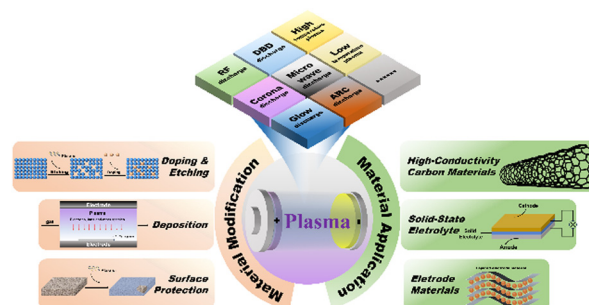


HIGHLIGHTS

2700

Development of plasma technology for the preparation and modification of energy storage materials

Fengchun Shi, Jiaqi Jiang, Xuan Wang, Yan Gao, Chen Chen, Guorong Chen,* Natallia Dudko, Alena A. Nevar and Dongsong Zhang*



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Fundamental questions
Elemental answers

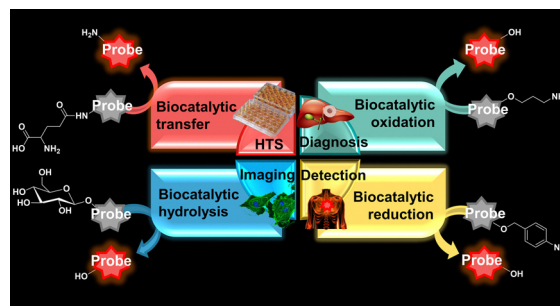


HIGHLIGHTS

2716

Visual monitoring of biocatalytic processes using small molecular fluorescent probes: strategies-mechanisms-applications

Guang Chen, Jie Xu, Siyue Ma, Xinrui Ji,*
Jared B. Carney, Chao Wang, Xiaoyong Gao, Pu Chen,
Baolei Fan,* Ji Chen, Yanfeng Yue* and Tony D. James*

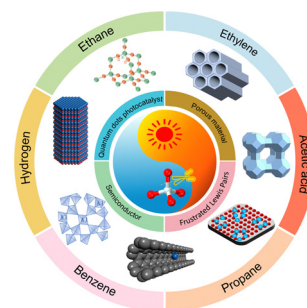


FEATURE ARTICLE

2732

Photocatalytic non-oxidative conversion of methane

Qingyun Zhan, Yuxiang Kong, Xinhui Wang and Lu Li*

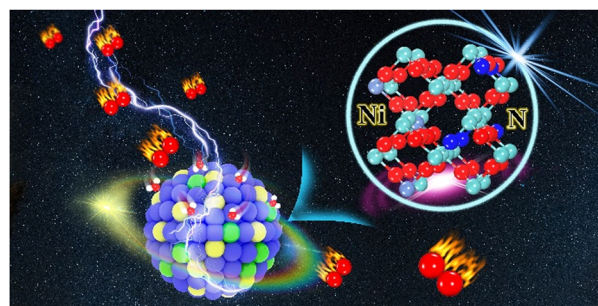


COMMUNICATIONS

2744

Electronic structure modulation of Mo sites in anion and cation co-doped MoO₂ nanospheres for electrocatalytic water oxidation

Chunyan Zhang, Ling Wang, Zhuwei Cao, Rui Li and Sheng Ye*



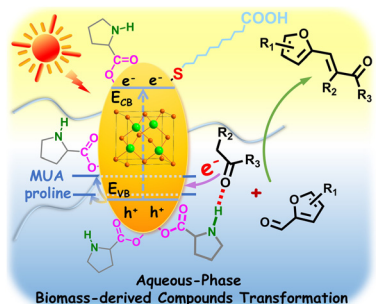
2748

A model for N-to-C direction in prebiotic peptide synthesis

Li Zhang, Min Zhang, Xiaofan Guo, Dingwei Gan,
Yong Ye, Yufen Zhao and Jianxi Ying*



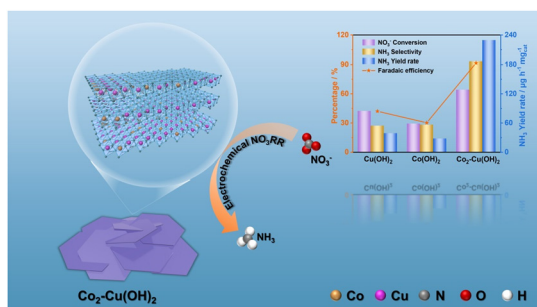
2752



Bi-ligand-fabricated CdS quantum dots to photo-induce aqueous-phase aldol condensation for biomass-derived carbonyl compounds

Dong-Dong Wei, Liu-Meng Mo, Jing-Yu Zhang, Yong-Shuai Zhang, Hui-Min Duan, Bin Zhang and Hong-Yan Wang*

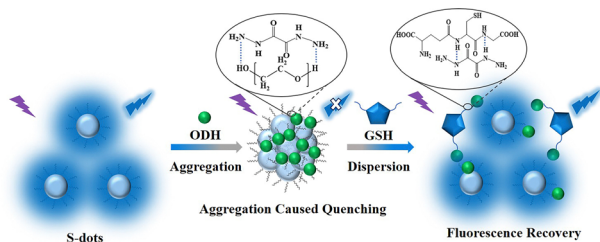
2756



Interfacial Co–O–Cu bonds prompt electrochemical nitrate reduction to ammonia in neutral electrolyte

Kai Yao, Zhaobin Fang, Weijie Yan, Yawu Wang, Zhenyong Song, Wenhai Wang, Jieyue Wang, Xianwen Wei, Yiwei Tan, Dehong Wu,* Konglin Wu* and Binbin Jiang*

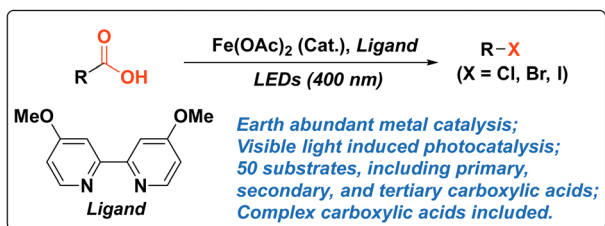
2760



Detection and discrimination of glutathione among biological thiols based on oxalyl dihydrazide decorated sulfur nanodots

Yifei Xing, Sha Zhu, Jiayue Li, Wei Li, Zhenguang Wang* and Yu-e Shi*

2764



Decarboxylative halogenation of aliphatic carboxylic acids catalyzed by iron salts under visible light

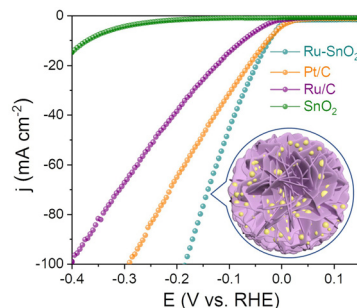
Jiahui Qian, Yu Zhang, Weining Zhao and Peng Hu*



2768

Low-loaded Ru on hollow SnO₂ for enhanced electrocatalytic hydrogen evolution

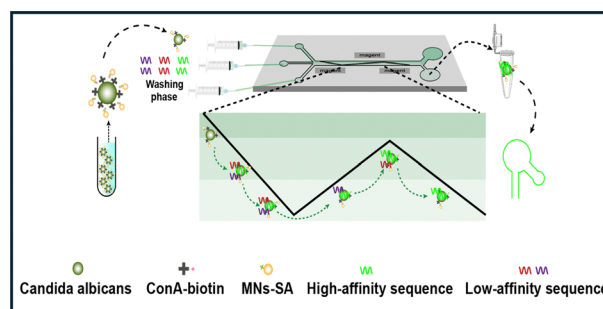
Yousaf Saira, Zhijuan Li,* Yu Zhu, Qicheng Liu, Wenkai Luo, Yu Wang, Mingxing Gong, Gengtao Fu* and Yawen Tang*



2772

Dynamic selection of high-affinity aptamers using a magnetically activated continuous deflection microfluidic chip

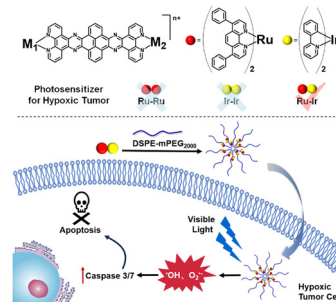
Ke-Zhu Yang, Meng Wang, Ming-Yue Gao, Yong-Tao Wang and Zhi-Ling Zhang*



2776

A hetero-bimetallic Ru(II)–Ir(III) photosensitizer for effective cancer photodynamic therapy under hypoxia

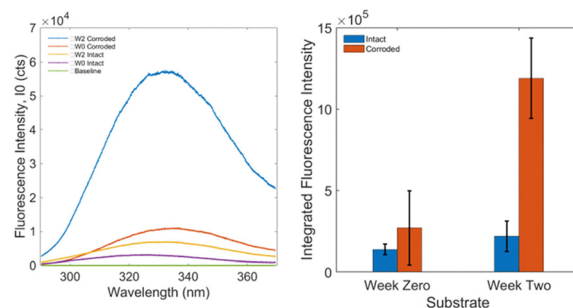
Mengsi Zheng, Xinlin Lin, Kai Xiong, Xiting Zhang,* Yu Chen,* Liangnian Ji and Hui Chao*



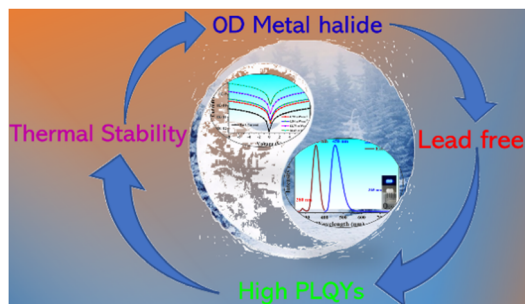
2780

Corrosion-enabled tryptophan biosensing enhancement on commercially available Mg alloy surfaces

Mohammad Mohammadi, Bo Zhao, Seyyeddanial Salehi, Owen Kingstedt, Yunshan Wang* and Shuaihang Pan*



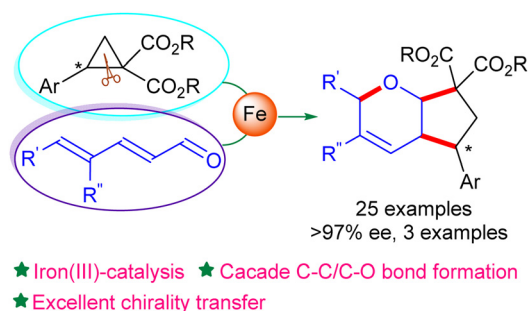
2784



Exploring OD lead-free metal halide with highly efficient blue light emission and high-sensitivity photodetection

Yu-Yin Wang, Huai-Yuan Kang, Shao-Ya Zhang, Hao Qu, Lin Zhu, Dan Zhao, Xian-Feng Li,* Xiao-Wu Lei and Cheng-Yang Yue*

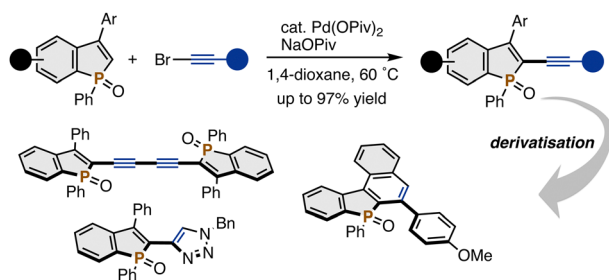
2788



Iron-catalyzed cascade C–C/C–O bond formation of 2,4-dienals with donor–acceptor cyclopropanes: access to functionalized hexahydrocyclopentapyrans

Manmath Mishra, Kshitiz Verma, Sonbidya Banerjee and Tharmalingam Punniyamurthy*

2792



Pd-catalysed C–H alkylation of benzophospholes

Yu Tokura, Shibo Xu, Kosuke Yasui, Yuji Nishii and Koji Hirano*

2796



Light-induced arylation (alkylation) of *N*-sulfonylhydrazones with boronic acids

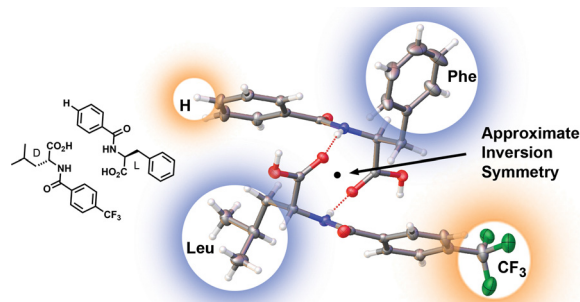
Mohammad Junaid, Sharma Happy and Dongari Yadagiri*



2800

Dual space divergence in small molecule quasiracemates: benzoyl leucine and phenylalanine assemblies

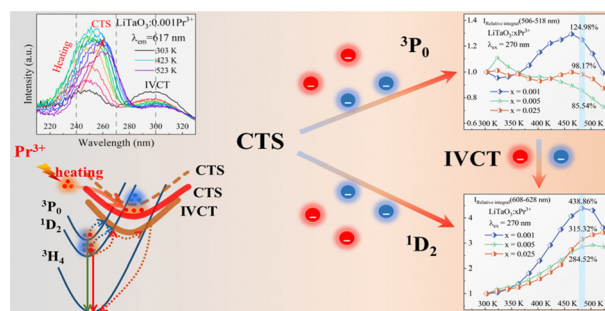
Katelyn N. Koch, Aaron J. Teo and Kraig A. Wheeler*



2804

Thermal activation induced charge transfer state absorption redshift realizes strong anti-thermal quenching in Pr³⁺-activated phosphor

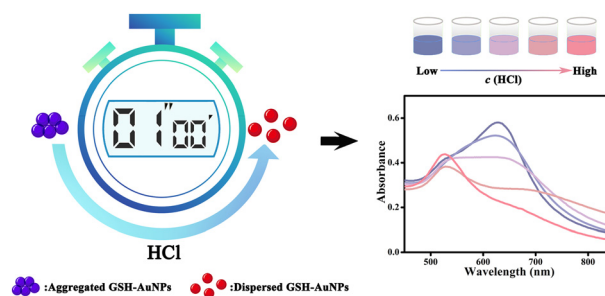
Xiang Lv, Ning Guo,* Song Qu, Yanmei Xin, Mei Yang, Baiqi Shao and Ruizhuo Ouyang



2808

Ultra-rapid and highly selective colorimetric detection of hydrochloric acid via an aggregation to dispersion change of gold nanoparticles

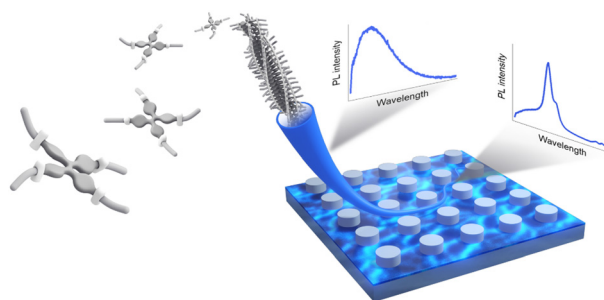
Kehui Zhang, Mingyue Luo, Honghong Rao, Haile Liu, Ruibin Qiang, Xin Xue, Jianying Li, Xiaoquan Lu and Zhonghua Xue*



2812

Tunable emission from H-type supramolecular polymers in optical nanocavities

Giulia Lavarda,* Anton M. Berghuis, Kripa Joseph, Joost J. B. van der Tol, Shunsuke Murai, Jaime Gómez Rivas and E. W. Meijer*



CORRECTION

2816

Correction: How fast do defects migrate in halide perovskites: insights from on-the-fly machine-learned force fields

Mike Pols, Victor Brouwers, Sofia Calero and Shuxia Tao*

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