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IN THIS ISSUE

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See Wei Lu *et al.*, pp. 11652–11655. Image reproduced by permission of Wei Lu from *Chem. Commun.*, 2023, **59**, 11652.

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11608

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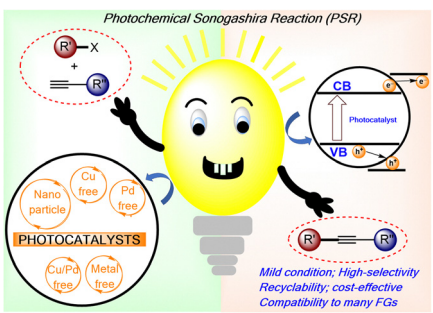
HIGHLIGHTS

11615

Photochemical Sonogashira coupling reactions: beyond traditional palladium–copper catalysis

Puja Singh and Aslam C. Shaikh*



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HIGHLIGHTS

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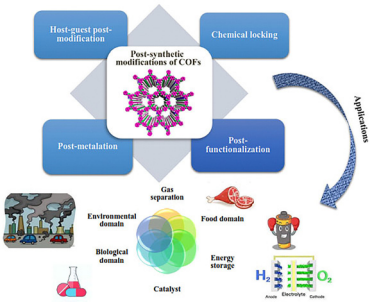
Post-synthetic modifications of covalent organic frameworks (COFs) for diverse applications

Narges Abdolhossein Rejali, Mohammad Dinari* and Yong Wang*



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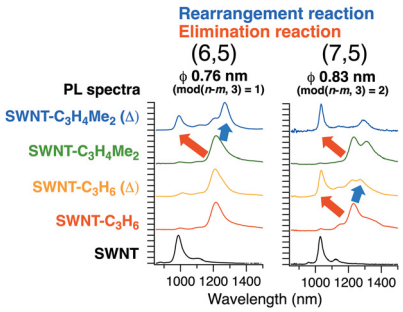
Control of functionalized single-walled carbon nanotube photoluminescence *via* competition between thermal rearrangement and elimination

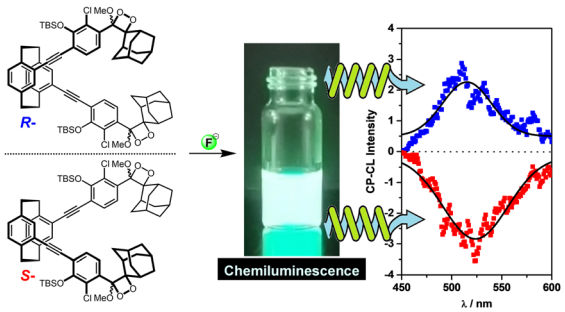
Yutaka Maeda,* Rina Morooka, Pei Zhao,* Michio Yamada and Masahiro Ehara*



11652

Circularly polarized chemiluminescence from planar chiral bis(adamantylidene-1,2-dioxetane)s

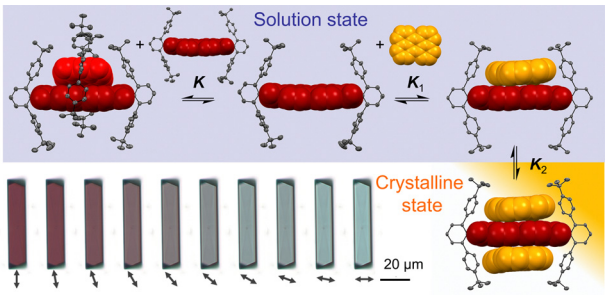
Minglin Shi, Mo Xie, Shigang Wan, Chao Zou, Yuliang Liu, Xinyan Zhou, Peng Yang, Xiaoyong Chang and Wei Lu*



11656

Donor–acceptor complex formation by social self-sorting of polycyclic aromatic hydrocarbons and perylene bisimides

Simon Soldner, Olga Anhalt, Menyhárt B. Sárosi, Matthias Stolte and Frank Würthner*



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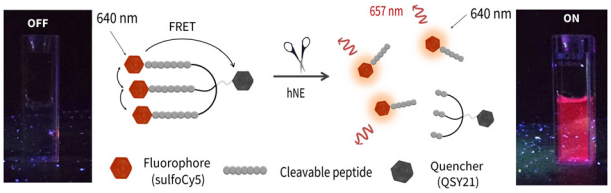

Moving into the red – a near infra-red optical probe for analysis of human neutrophil elastase in activated neutrophils and neutrophil extracellular traps

M. Rodriguez-Rios, G. Rinaldi, A. Megia-Fernandez, A. Lilienkampf, C. T. Robb, A. G. Rossi and M. Bradley*

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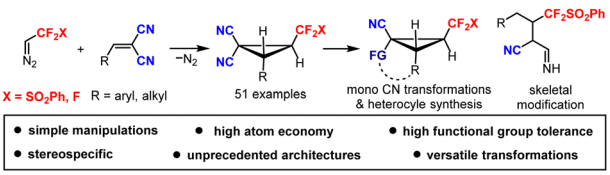

Synthesis of di/trifluoromethyl cyclopropane-dicarbonitriles *via* [2+1] annulation of fluoro-based diazoethanes with (alkylidene)malononitriles

Cheng-Feng Gao, Yue-Ji Chen, Jing Nie, Fa-Guang Zhang,* Chi Wai Cheung* and Jun-An Ma*

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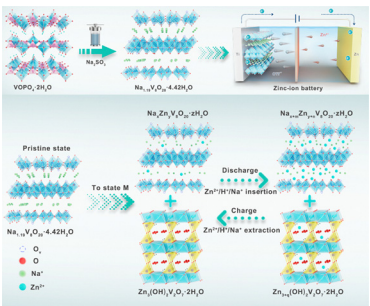

Oxygen vacancy enriched $Na_{1.19}V_8O_{20}\cdot4.42H_2O$ nanosheets for fast and stable Zn-ion batteries

Mengcheng Wu, Jie Bai, Mengda Xue, Xun Zhao, Lei Mao and Lingyun Chen*

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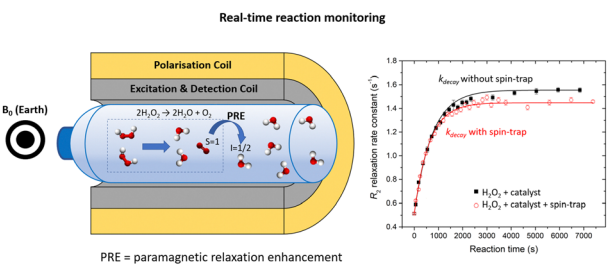

Earth's field NMR relaxation of pre-polarised water protons for real-time detection of free-radical formation

Alexandru Topor, Mihai A. Voda and Paul R. Vasos*

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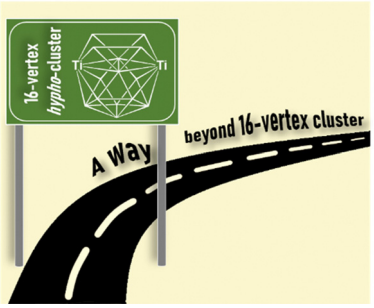
16-Vertex *oblato–hypho*-titanaborane $[(Cp^*Ti)_2B_{14}H_{18}]$

Sourav Kar, Subhash Bairagi, Jean-François Halet* and Sundargopal Ghosh*



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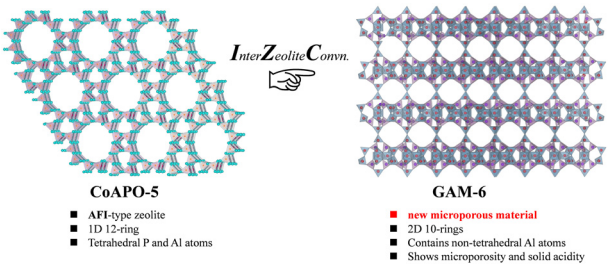
Two-dimensional microporous GAM-6 formed by the interzeolite conversion of CoAPO-5

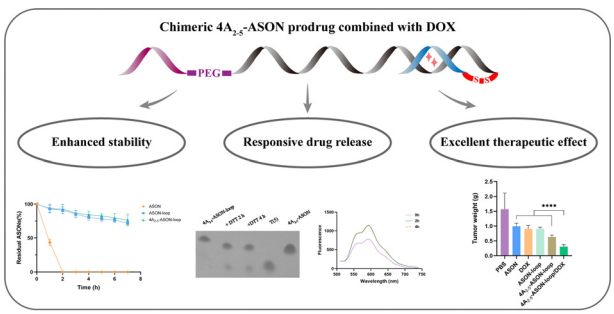
Kenichi Komura,* Edo Imai,* Kazuma Oka and Takuji Ikeda*



11684

Design, characterization and biological evaluation of a new chimeric $4A_{2-5}$-antisense prodrug combined with chemotherapy

Zuyi Chen, Zhe Zhang, Shuangshuang Liu, Zhenyu Xiao, Yuan Luo, Liang Xu* and Xuesong Feng*



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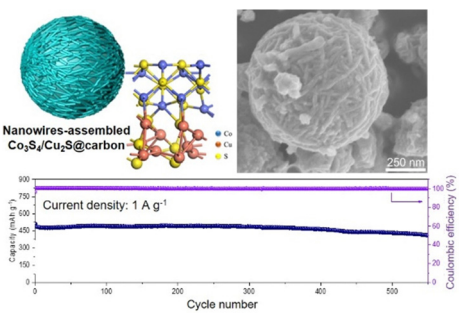
A nanowire-assembled Co_3S_4/Cu_2S@carbon binary metal sulfide hybrid as a sodium-ion battery anode displaying high capacity and recoverable rate-performance

Jinyun Liu,* Xiaofei Huang, Rui Wang, Tianli Han and Huigang Zhang



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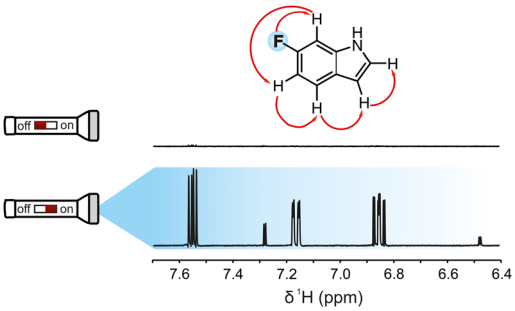

Lighting up spin systems: enhancing characteristic ^{1}H signal patterns of fluorinated molecules

Marshall J. Smith, Jack E. Bramham, Mathias Nilsson, Gareth A. Morris, Laura Castañar* and Alexander P. Golovanov*

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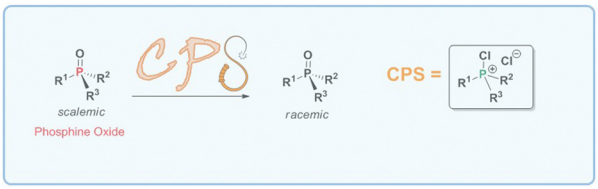

Unexpected rapid *P*-stereomutation of phosphine oxides catalysed by chlorophosphonium salts

Sulaiman Al-Sulaimi, Kamalraj Rajendran, Kirill Nikitin* and Declan G. Gilheany*

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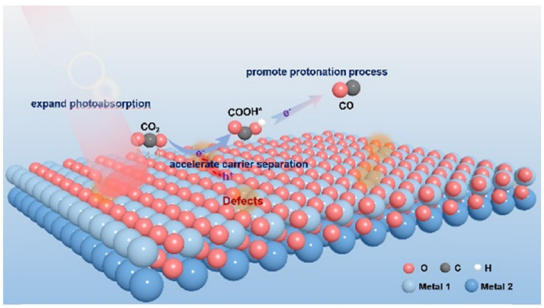

Optimized full CO_2 photoreduction process by defective spinel atomic layers

Yang Wu, Dongpo He, Lei Li, Zhiqiang Wang, Wensheng Yan, Junfa Zhu, Yang Pan, Qingxia Chen,* Xingchen Jiao* and Yi Xie

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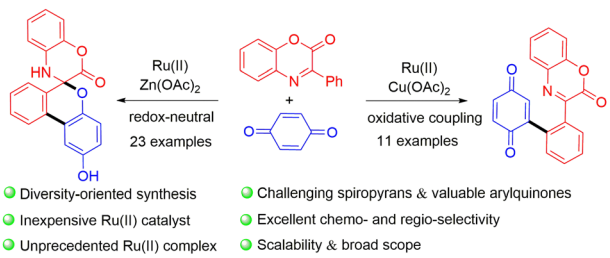

Synthesis of spiropyrans and arylquinones *via* Ru(II)-catalyzed condition-controlled coupling of 3-aryl-2*H*-benzoxazinones with benzoquinones

Mengying Zhang, Yuhao He, Song Li, Yuehua Geng, Xiangyang Liu and Xifa Yang*

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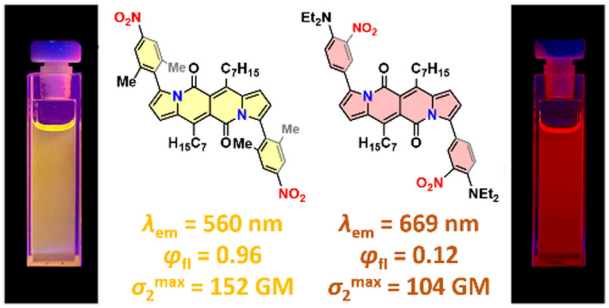
Realization of nitroaromatic chromophores with intense two-photon brightness

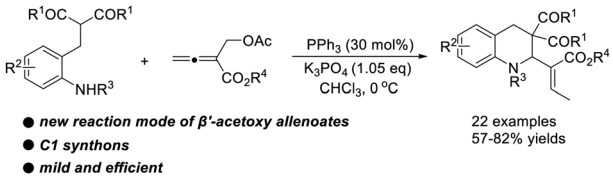
Bartłomiej Sadowski,* Marzena Kaliszewska, Guillaume Clermont, Yevgen M. Poronik, Mireille Blanchard-Desce,* Piotr Piątkowski* and Daniel T. Gryko*



11712

Phosphine-catalyzed [5+1] annulation of β′-acetoxy allenoates: straightforward access to tetrahydroquinoline derivatives

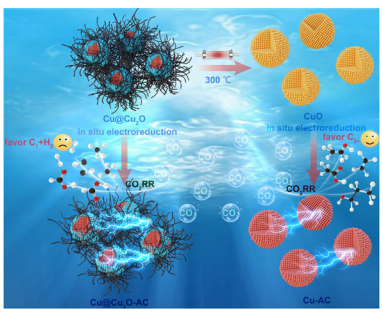
Yannan Zhu, Zhili Xu and Yi-Ning Wang*



11716

Correlating the valence state of a Cu-based electrocatalyst for CO_2 reduction to C_{2+}

Yifan Li, Wanqing Hong, Shiyi Chen, Rui Duan, Sini Chai, Wenping Du, Jian Yang* and Junjie Mao*



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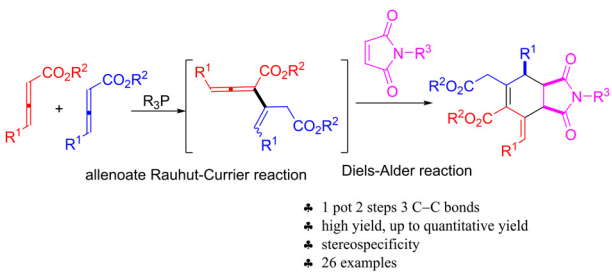
Phosphine-catalyzed Rauhut–Currier reaction of γ-alkyl allenoate and subsequent trapping using the Diels–Alder reaction

Juan Zhang, Wei Hao, Ying Chen, Zhen Wang,* Jinzhong Yao and Weijun Yao*



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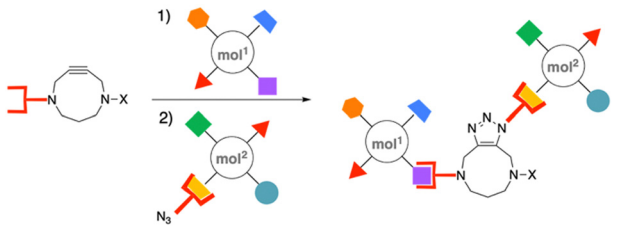
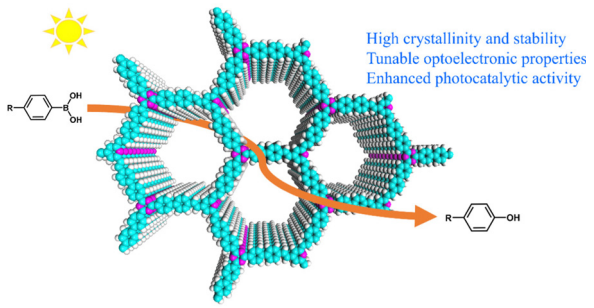


Development of DACN-NHS-ester and DACN-maleimide, and their application for the synthesis of artificial hybrid biomolecules

Yuuya Kawasaki, Tomoya Hayashibara, Yuki Seto, Yutaro Taniguchi, Kazunobu Igawa and Katsuhiko Tomooka*

11728



Fabricating *s*-collidine-derived vinylene-linked covalent organic frameworks for photocatalysis

Zuyi Li, Wengjing Wang, Feng Tao, Wenwen Zhou, Lianke Wang, Zhipeng Yu, Kaixuan Wang,* Jie Zhang* and Hongping Zhou*

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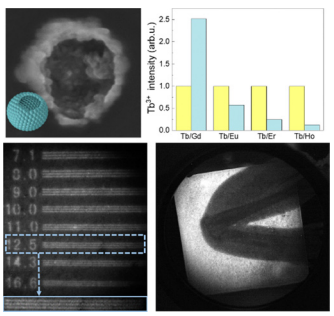
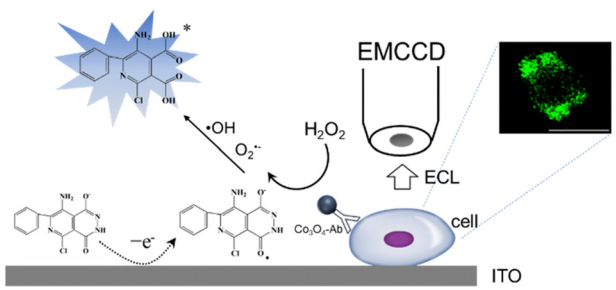


A hollow $NaBiF_4$:Tb nanoscintillator with ultra-weak afterglow for high-resolution X-ray imaging

Huirong Zou, Minghao Yi, Shiqing Xu and Lei Lei*

11736



Enhanced electrochemiluminescence imaging of single cell membrane proteins based on Co_3O_4 nanozyme catalysis

Jingjing Zhang, Lin Hao,* Jie Chao, Lianhui Wang and Shao Su*

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CORRECTION

11740

Correction: Synthesis of vertically aligned carbon nanotube arrays on polyhedral Fe/Al_2O_3 catalysts

Jun Liu, Lixiang Yuan,* Xiaoshuang Yang, Anthony Ebert and Andrew T. Harris*

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