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See Yutaka Maeda, Pei Zhao, Masahiro Ehara et al., pp. 11648-11651. Image reproduced by permission of Yutaka Maeda from Chem. Commun., 2023, 59, 11648.



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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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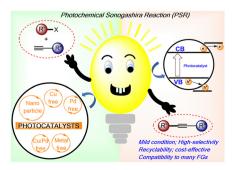


HIGHLIGHTS

11615

Photochemical Sonogashira coupling reactions: beyond traditional palladium-copper catalysis

Puja Singh and Aslam C. Shaikh*



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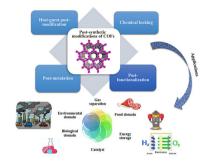


HIGHLIGHTS

11631

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

Narges Abdolhossein Rejali, Mohammad Dinari* and Yong Wang*

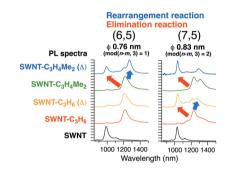


COMMUNICATIONS

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

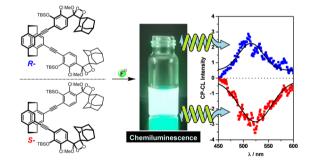
Yutaka Maeda,* Rina Morooka, Pei Zhao,* Michio Yamada and Masahiro Ehara*



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*



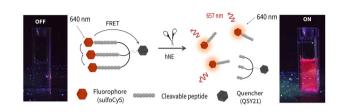
11656

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*



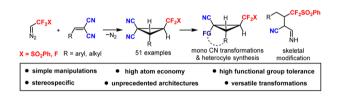
11660



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*

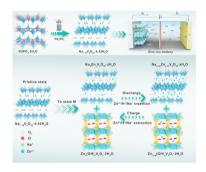
11664



Synthesis of di/trifluoromethyl cyclopropanedicarbonitriles 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*

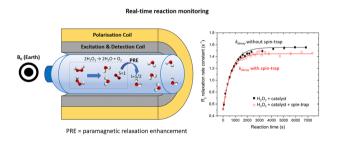
11668



Oxygen vacancy enriched Na_{1.19}V₈O₂₀·4.42H₂O nanosheets for fast and stable Zn-ion batteries

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

11672



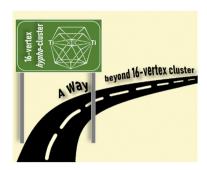
Earth's field NMR relaxation of pre-polarised water protons for real-time detection of free-radical formation

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

11676

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

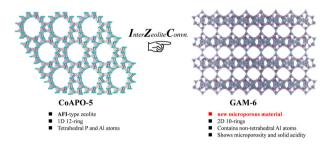
Sourav Kar, Subhash Bairagi, Jean-François Halet* and Sundargopal Ghosh*



11680

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

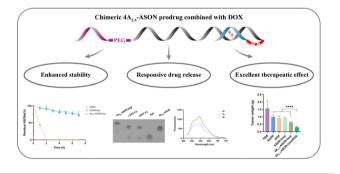
Kenichi Komura,* Edo Imai,* Kazuma Oka and Takuji Ikeda*



11684

Design, characterization and biological evaluation of a new chimeric 4A2-5-antisense prodrug combined with chemotherapy

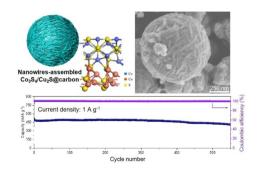
Zuyi Chen, Zhe Zhang, Shuangshuang Liu, Zhenyu Xiao, Yuan Luo, Liang Xu* and Xuesong Feng*



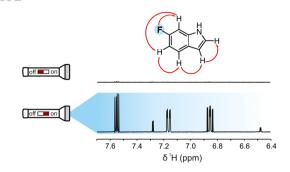
11688

A nanowire-assembled Co₃S₄/Cu₂S@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



11692



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

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

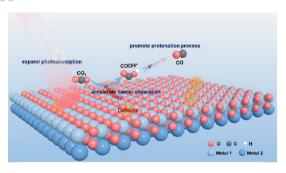
11696



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

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

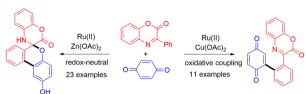
11700



Optimized full CO₂ photoreduction process by defective spinel atomic layers

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

11704



- Oiversity-oriented synthesis
- Inexpensive Ru(II) catalyst
- Unprecedented Ru(II) complex
- Challenging spiropyrans & valuable arylquinones
- Excellent chemo- and regio-selectivity
- Scalability & broad scope

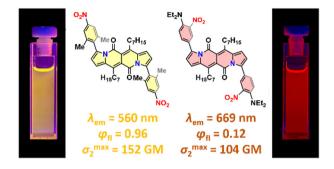
Synthesis of spiropyrans and arylquinones via Ru(II)-catalyzed condition-controlled coupling of 3-aryl-2H-benzoxazinones with benzoquinones

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

11708

Realization of nitroaromatic chromophores with intense two-photon brightness

Bartłomiei 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*

$$R^{2} \stackrel{\text{II}}{ \sqcup} \text{NHR}^{3} + \bigoplus_{\bullet \in \mathcal{O}_{2}R^{4}} \frac{\text{PPh}_{3} (30 \text{ mol}\%)}{\text{K}_{3}\text{PO}_{4} (1.05 \text{ eq})} + R^{2} \stackrel{\text{COR}^{1}}{ \sqcup} \text{CO}_{2}R^{4}$$

$$\bullet \text{ new reaction mode of } \beta' \text{-acetoxy allenoates}$$

$$\bullet C1 \text{ synthons}$$

$$\bullet \text{ mild and efficient}$$

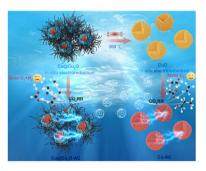
$$22 \text{ examples}$$

$$57-82\% \text{ yields}$$

11716

Correlating the valence state of a Cu-based electrocatalyst for CO₂ reduction to C₂₊

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



11720

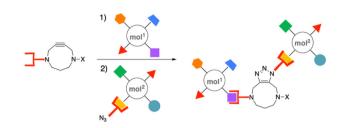
Phosphine-catalyzed Rauhut-Currier reaction of γ-alkyl allenoate and subsequent trapping using the Diels-Alder reaction

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



- ♣ 1 pot 2 steps 3 C–C bonds
- A high yield, up to quantitative yield
- stereospecificity
- ♣ 26 examples

11724



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

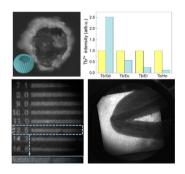
Yuuya Kawasaki, Tomoya Hayashibara, Yuki Seto, Yutaro Taniguchi, Kazunobu Igawa and Katsuhiko Tomooka*

11728 High crystallinity and stability Tunable optoelectronic properties Enhanced photocatalytic activity

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*

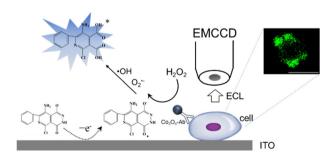
11732



A hollow NaBiF4:Tb nanoscintillator with ultra-weak afterglow for high-resolution X-ray imaging

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

11736



Enhanced electrochemiluminescence imaging of single cell membrane proteins based on Co₃O₄ nanozyme catalysis

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

CORRECTION

11740

Correction: Synthesis of vertically aligned carbon nanotube arrays on polyhedral Fe/Al₂O₃ catalysts

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