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ISSN 1359-7345 CODEN CHCOFS 60(3) 243-354 (2024)



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See Kosuke Okeyoshi *et al.*, pp. 280–283. Image reproduced by permission of Kosuke Okeyoshi from *Chem. Commun.*, 2024, 60, 280.



Inside cover

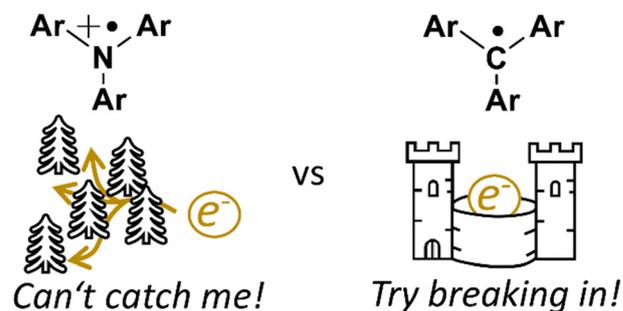
See Stephen J. Butler, Helen Willcock *et al.*, pp. 284–287. Image reproduced by permission of Stephen Butler from *Chem. Commun.*, 2024, 60, 284. Cover artwork designed by Samantha Bodman and Graeme Pratt.

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Structure–property–function relationships of stabilized and persistent C- and N-based triaryl radicals

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Wafer-scale synthesis of two-dimensional ultrathin films

Amresh Kumar Singh, Baishali Thakurta, Anupam Giri* and Monalisa Pal*



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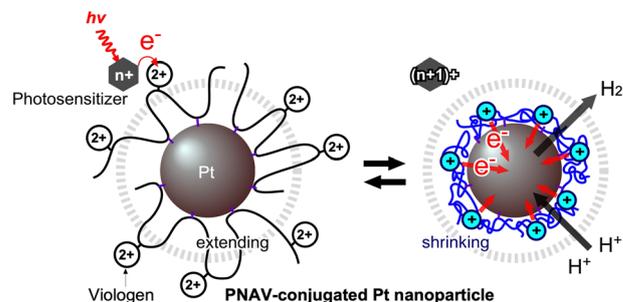
Fundamental questions
Elemental answers



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Precise design of copolymer-conjugated nanocatalysts for active electron transfer

Reina Hagiwara, Shun Nishimura and Kosuke Okeyoshi*



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A dual encapsulation strategy to generate anion-responsive luminescent lanthanide hydrogels

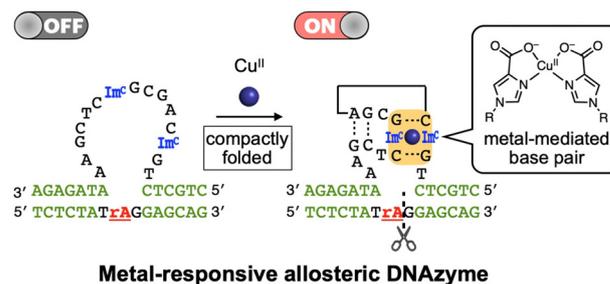
Samantha E. Bodman, Colum Breen, Annaliese Rebecca Hambleton, Stephen J. Butler* and Helen Willcock*



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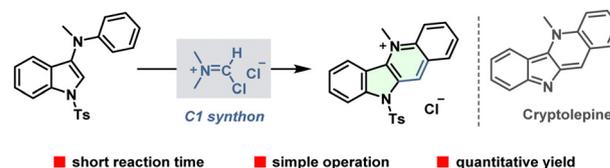
Yusuke Takezawa,* Lingyun Hu, Takahiro Nakama and Mitsuhiko Shionoya*



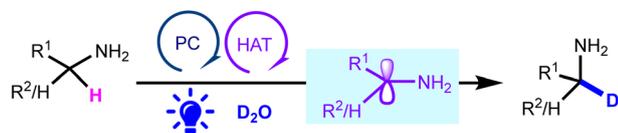
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Intramolecular trapping of an iminium salt: rapid construction of quindoline derivatives

Pan Zhou, Senhui Wu, Kaikai Niu, Hongjian Song,* Yuxiu Liu, Jingjing Zhang* and Qingmin Wang*



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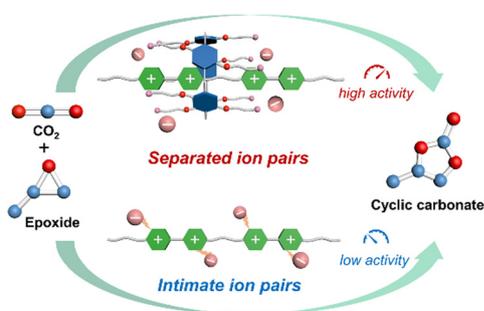


- Harnessing α -amino radical for reversible H/D exchange
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- 47 examples
up to 100 D%

Organophotocatalytic α -deuteration of unprotected primary amines *via* H/D exchange with D₂O

Xiang Meng, Yue Dong, Qiangqiang Liu and Wei Wang*

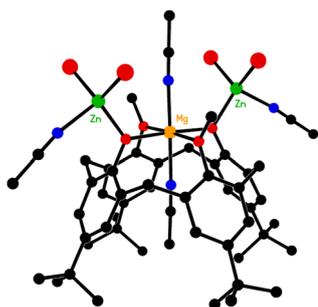
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Pillar[5]arene-segregated ion pairs for enhanced cycloaddition of epoxides with CO₂

Yidan Zhou, Zejiang Liu, Zhiyao Yang, Yuexuan Zheng, Maoxia Yang, Wen Feng, Xiaowei Li* and Lihua Yuan*

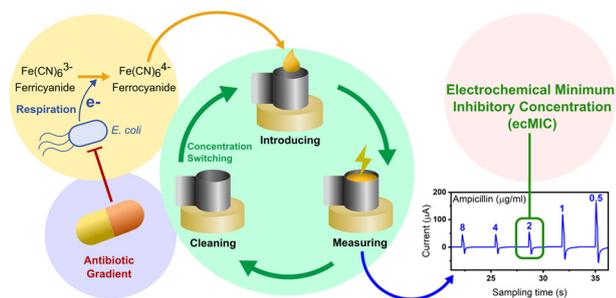
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Henry J. S. Banks, Josef W. A. Frese, Mark R. J. Elsegood and Carl Redshaw*

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Rapid and directly interpretable antimicrobial susceptibility profiling by continuous microvolume-electroanalysis of ferricyanide-mediated bacterial respiration

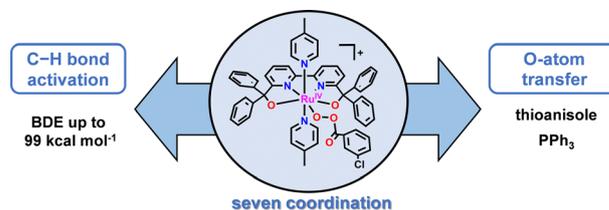
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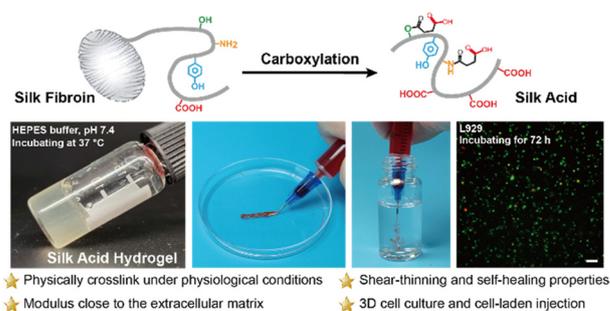
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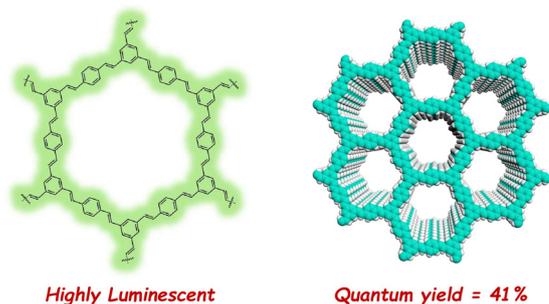
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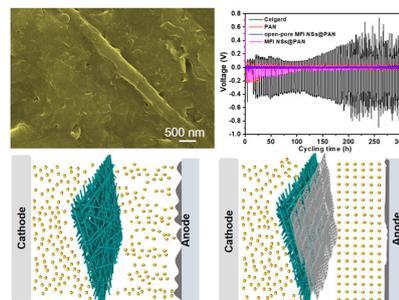
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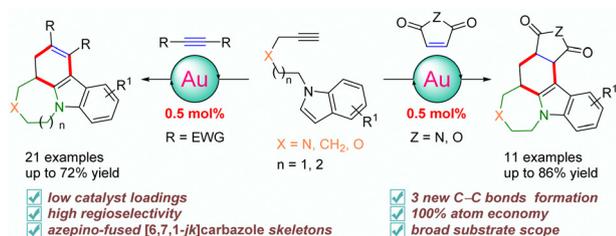
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An open-pore MFI zeolite nanosheet-modified separator with Li-ion flux regulation for lithium-metal batteries

Yunyun Zhai, Yunqin Wu, Junlu Sheng, Haiqing Liu,* Zhenpeng Huang, Qiang Xiao* and Lei Li*



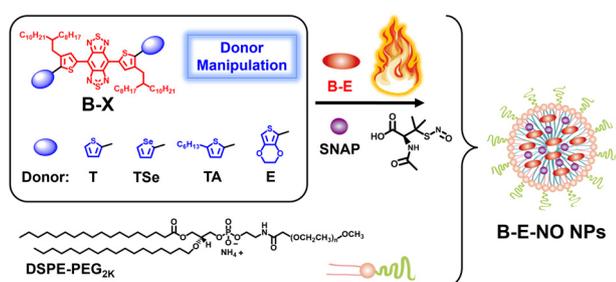
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Cascade hydroarylation/Diels–Alder cycloaddition of alkynylindoles with electron-deficient alkynes and alkenes

Guang-Chao Feng, Jun-Chi Li, Xiang Huang, Ji-Kai Liu, Bin Wu and Jin-Ming Yang*

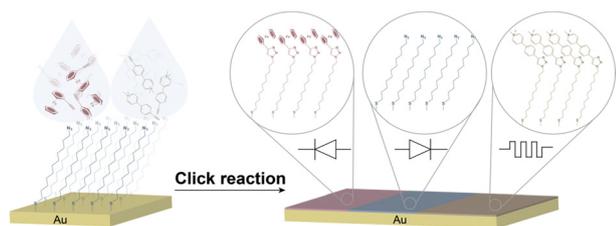
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A noncovalent backbone planarization strategy increases the NIR-II extinction coefficients for gas/phototheranostic applications

Peng Cheng, Shangyu Chen,* Jiewei Li, Wan Yang, Pengfei Chen, Han Miao, Qingming Shen, Pengfei Sun* and Quli Fan*

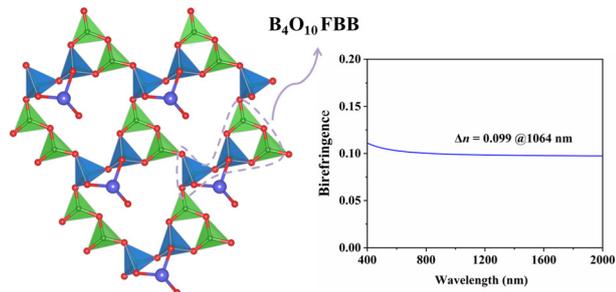
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Fabrication of multi-functional molecular tunnelling junctions by click chemistry

Ningyue Chen, Zhenyu Yang, Jin-Liang Lin, Ziming Zhou, Yu Xie, Lejia Wang and Yuan Li*

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PbTeB₄O₉: a lead tellurium borate with unprecedented fundamental building block [B₄O₁₀] and large birefringence

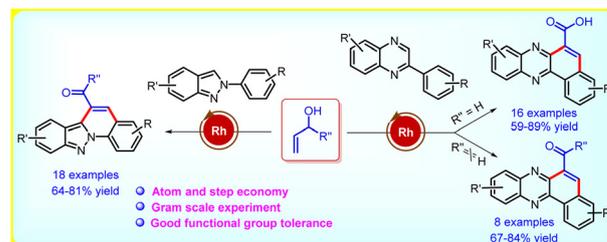
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Dhananjay S. Nipate, Neha Meena, Prakash N. Swami, Krishnan Rangan and Anil Kumar*



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Electronic structure engineering on Co-based metal–organic frameworks for concurrent electrocatalytic hydrogen generation and formate electrosynthesis

Mengying Liu, Qingsong Zhou, Tianlun Ren, Hongjie Yu, Kai Deng, Ziqiang Wang, Hongjing Wang, Liang Wang and You Xu*

