# Chemical Science

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## IN THIS ISSUE

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**Cover**
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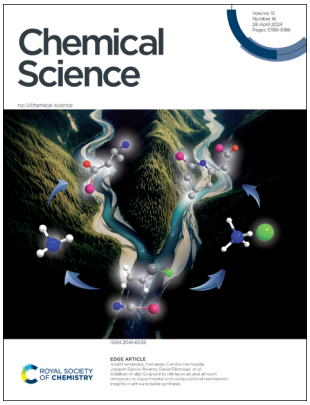
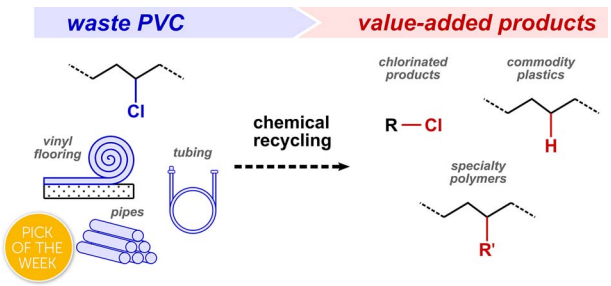


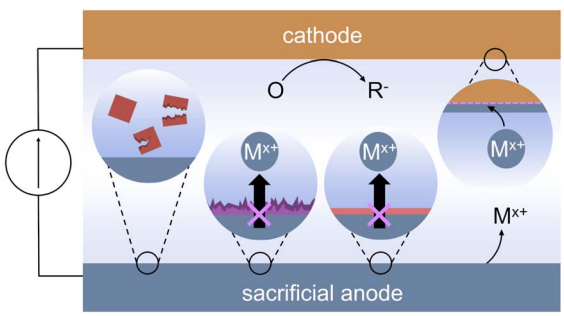

**Inside cover**
See Israel Fernández, Fernando Carrillo-Hermosilla, Joaquín García-Álvarez, David Elorriaga *et al.*, pp. 5929–5937. Image reproduced by permission of Clara Becedóniz Plasencia from *Chem. Sci.*, 2024, **15**, 5929.

## PERSPECTIVES







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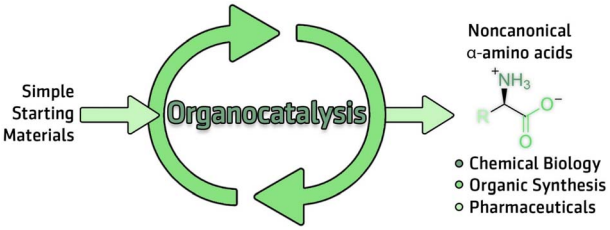


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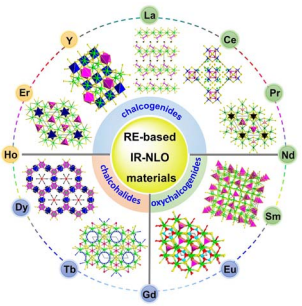




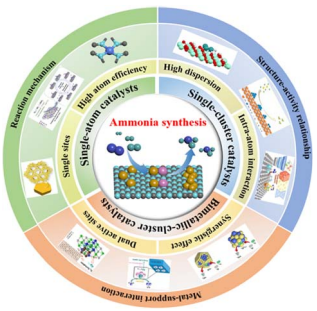


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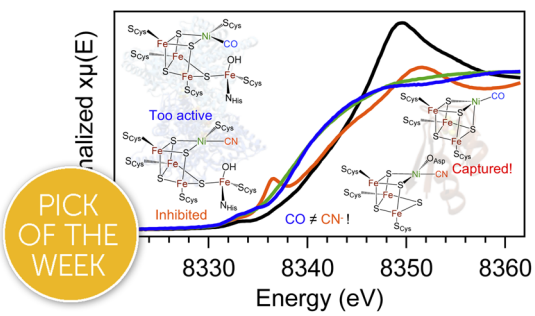

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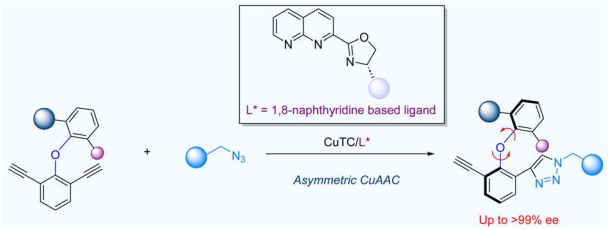
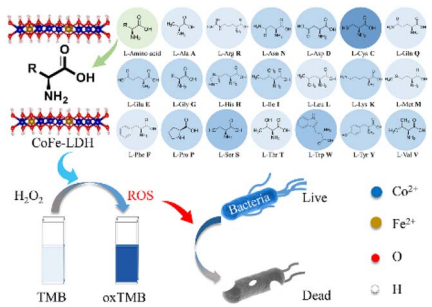



### Copper-catalyzed atroposelective synthesis of C–O axially chiral compounds enabled by chiral 1,8-naphthyridine based ligands

Lei Dai, Xueting Zhou, Jiami Guo, Qingqin Huang and Yixin Lu*

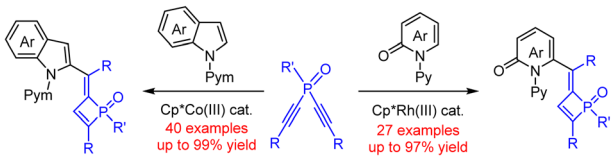
6002




### Facile preparation of high-efficiency peroxidase mimics: modulation of the catalytic microenvironment of LDH nanozymes through defect engineering induced by amino acid intercalation

Dong Han, Kui Yang, Lanlan Chen, Zhaosheng Zhang, Chen Wang, Hongyuan Yan* and Jia Wen*

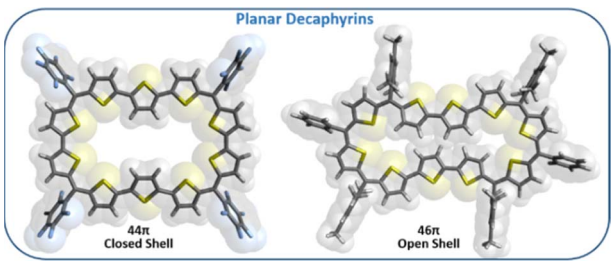
6012




### Cobalt- or rhodium-catalyzed synthesis of 1,2-dihydrophosphete oxides *via* C–H activation and formal phosphoryl migration

Shengbo Xu, Ruijie Mi, Guangfan Zheng* and Xingwei Li*

6022




### Open shell $(4n + 2)\pi$ and closed shell $4n\pi$ planar core-modified decaphyrins

Pragati Shukla, Madan D. Ambhore and Venkataramanarao G. Anand*

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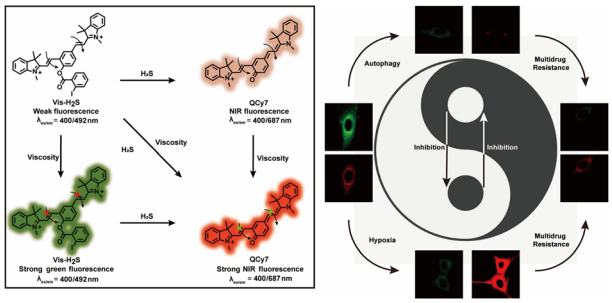




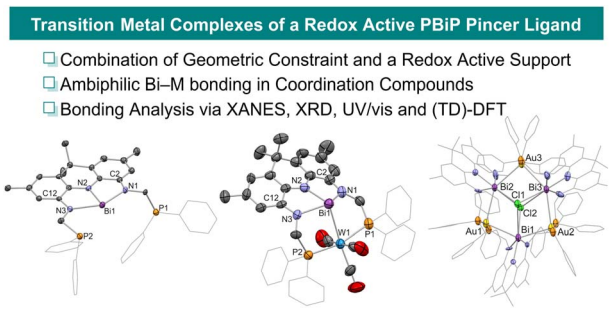




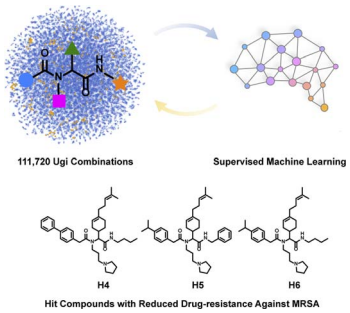




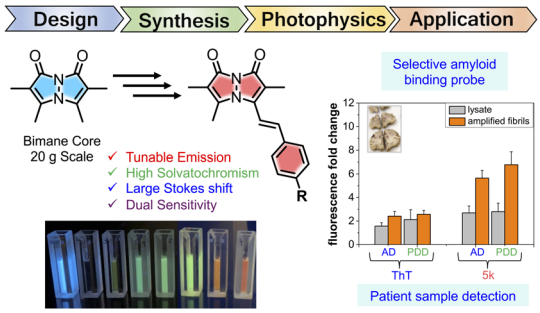

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# Visible-light-driven alkene dicarboxylation with formate and $CO_2$ under mild conditions

Fulin Zhang, Xiao-Yang Wu, Pan-Pan Gao, Hao Zhang, Zhu Li, Shangde Ai and Gang Li*