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IN THIS ISSUE

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Cover
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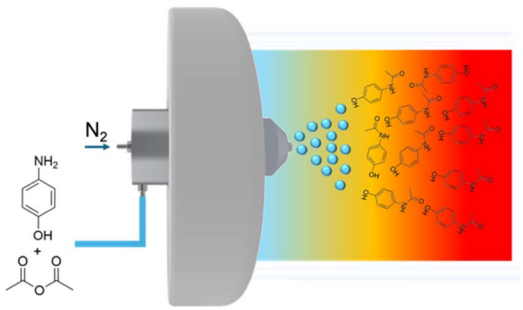
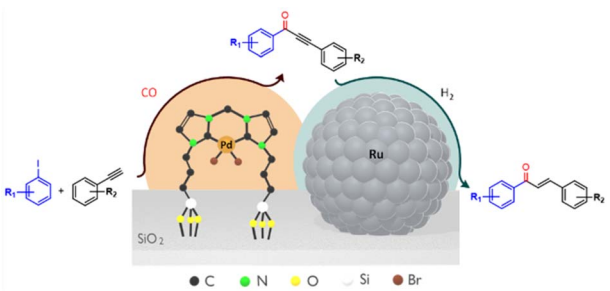
Inside cover
See Walter Leitner, Alexis Bordet *et al.*, pp. 5776–5785. Image reproduced by permission of Johannes Zenner, Manisha Durai and Alexis Bordet from *Chem. Sci.*, 2025, **16**, 5776.

EDGE ARTICLES





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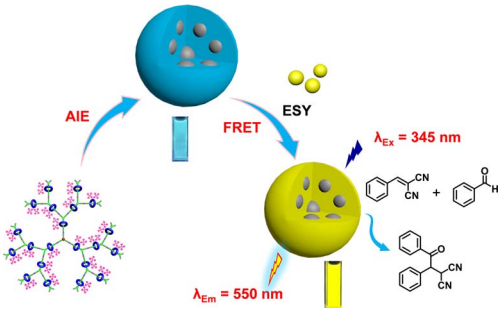
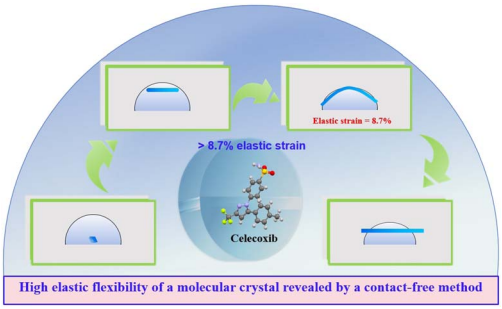
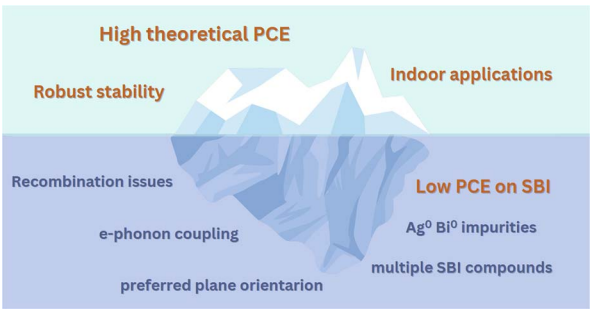




EDITORIAL

PERSPECTIVES



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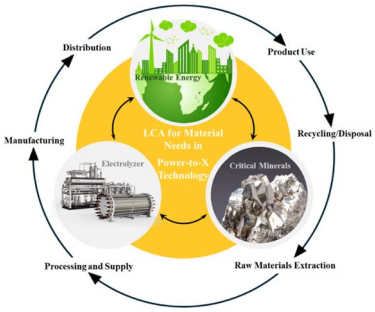
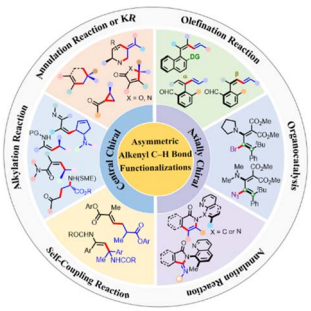


Material needs for power-to-X systems for CO_2 utilization require a life cycle approach

Aloka Kumar Sahu, Thomas E. Rufford,* Saleem H. Ali,* Ruth Knibbe, Simon Smart, Feng Jiao, Alexis T. Bell and Xiwang Zhang

REVIEW



Recent advances in catalytic asymmetric alkenyl C(sp^2)–H bond functionalizations

Xiao-Ju Si, Tian-Ci Wang, Teck-Peng Loh* and Ming-Zhu Lu*

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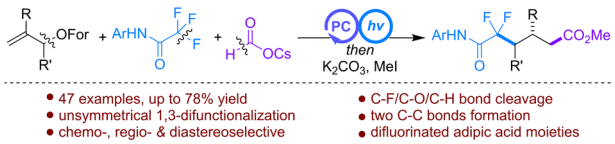
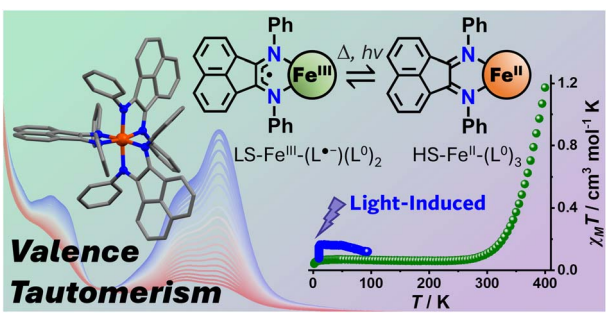


Photocatalytic 1,3-difluoroalkylcarboxylation of alkenes by triple kinetic-controlled radical self-ordering

Hong Fu, Zuo-Shuai Wang, Si-Jia Li, Lin-Yuan Zhu, Xiao-Jian Wang, Hong-Chen Wang and Bing Han*



Thermal- and light-induced valence tautomerism with a concerted spin transition in an iron tris(diimine) complex

Jett T. Janetzki, Dominic S. Brown, Florian Daumann, I. Haseena Ismail, Robert W. Gable, Moya A. Hay, Roger J. Mulder, Alyona A. Starikova, Birgit Weber, Marcus J. Giansiracusa and Colette Boskovic*

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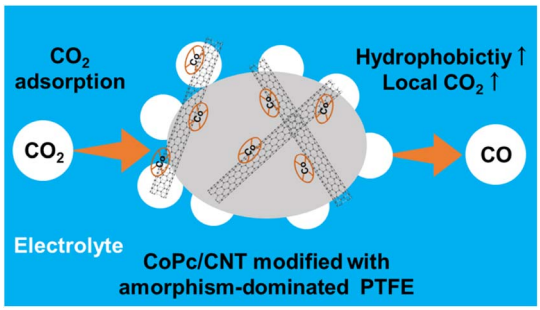

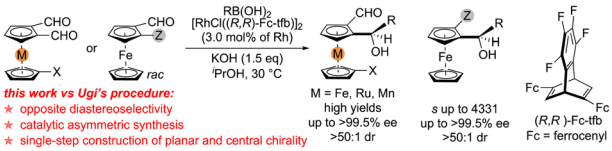

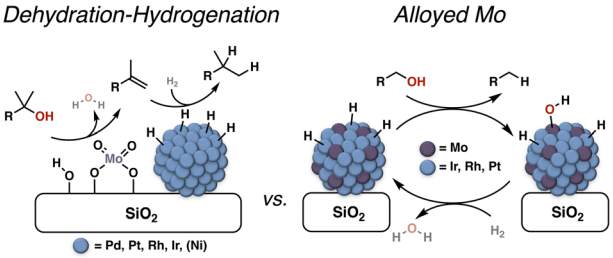

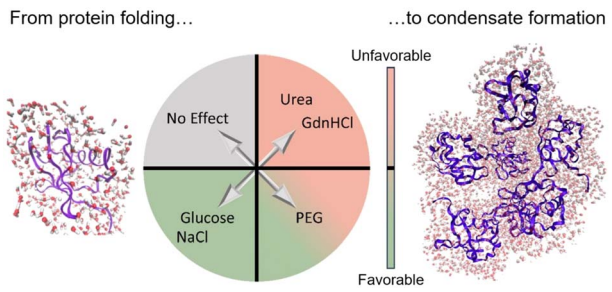

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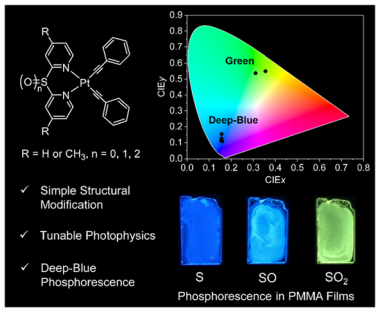

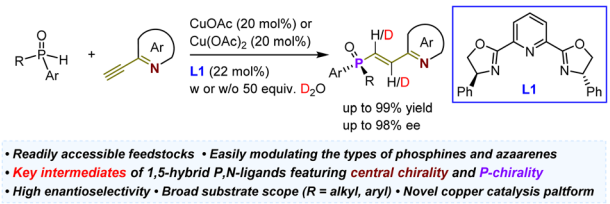

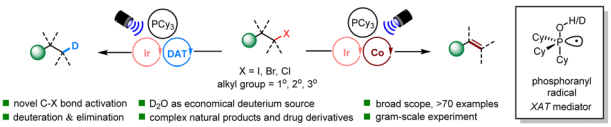

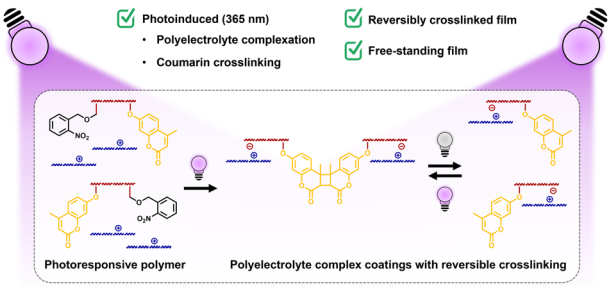

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