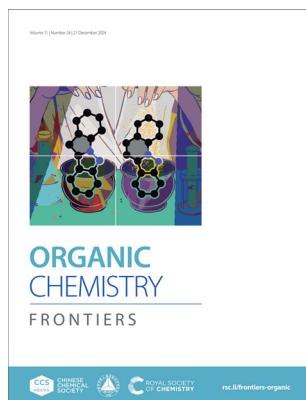


## IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 11(24) 6961–7334 (2024)

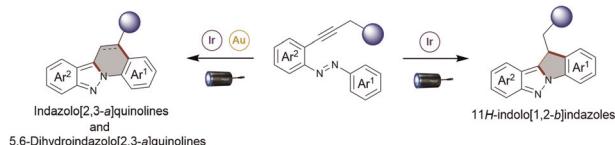
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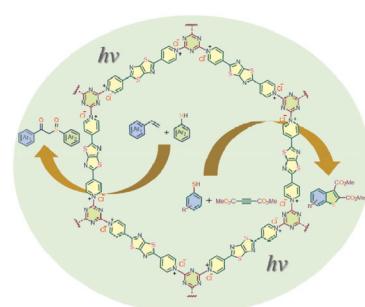
6974

**Shaping cycles with light: a regiodivergent approach to tetracyclic aza-aromatic compounds**

Clara Mañas, Belén Ibarra and Estíbaliz Merino\*



6989

**Visible-light heterogeneous photocatalysis with an ionic porous organic polymer (IPOP): synthesis of  $\beta$ -keto sulfoxides and benzothiophene diesters by tandem radical addition–oxidation reactions**Ajay Kumar Sahoo, Parag Tamuly and  
Jaruju Narasimha Moorthy\*

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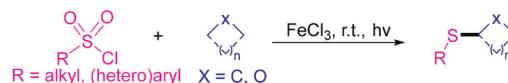
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## RESEARCH ARTICLES

7001

**Iron-catalyzed thiolation of C(sp<sup>3</sup>)–H with sulfonyl chlorides via photoinduced ligand-to-metal charge transfer**

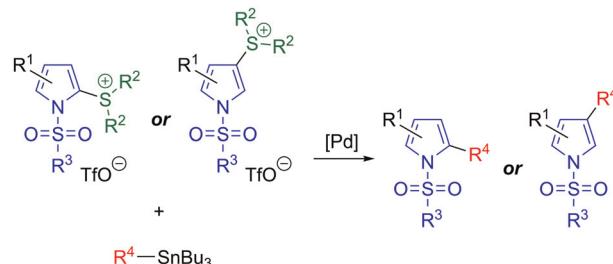
Sheng-Ping Liu, Lan Yang, Yan-Hong He\* and Zhi Guan\*

Terrestrially-abundant iron element    No additional reducing agent required  
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7011

**Pyrrolylsulfonium salts: stable, accessible and versatile pseudohalides for Stille couplings**

Jodie L. Hann, Catherine L. Lyall, Gabriele Kociok-Köhn and Simon E. Lewis\*



7027

**Deoxygenative 1,3-carbophosphination of allylic alcohols enabled by manganese pincer catalyst**

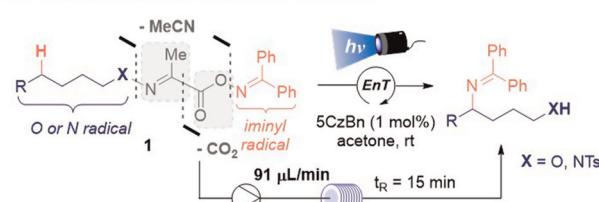
Xin Chen, Guanbo Li, Hui Ma, Sheng-Yin Zhao\* and Weiping Liu\*



7037

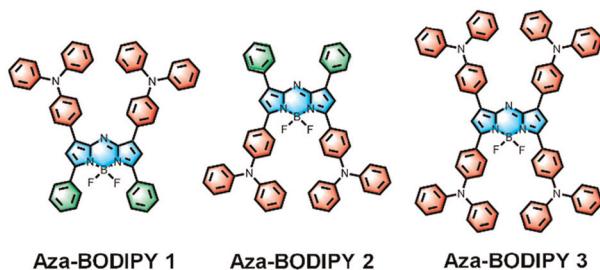
 **$\delta$ -Amination of alkyl alcohols via energy transfer photocatalysis**

Christian Cristóbal, Inés Alonso, Francisco Tato, María J. Cabrera-Afonso,\* Javier Adrio\* and María Ribagorda\*

*EnT radical generation/1,5-HAT process/  $\delta$ -imination*

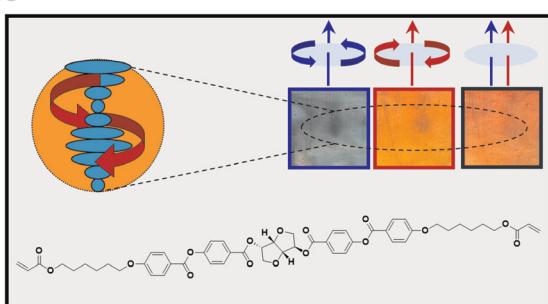
## RESEARCH ARTICLES

7044

**Triphenylamine-functionalized aza-BODIPY dyes: synthesis, characterization, and their application as hole transport materials in perovskite solar cells**

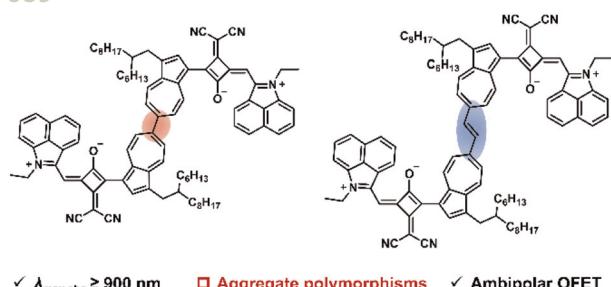
Junjun Su, Li Zhu, Zixuan Dong, Mengqi Liu, Fei Zhang, Xianggao Li, Shirong Wang\* and Zhijian Chen\*

7053

**An L-isosorbide-based reactive chiral dopant with high helical twisting power for cholesteric liquid crystal polymers reflecting left-handed circularly polarized light**

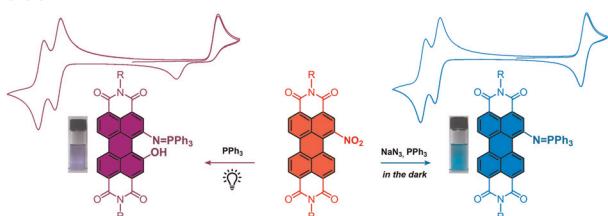
Ramazan Umut Dinc, Johan Lub, Augustinus J. J. Kragt and Albert P. H. J. Schenning\*

7059

**Single-bond-linked and vinylene-bridged azulenyl bis(squaraine) dyes: design, synthesis and molecular self-assembly behaviors**

Yiming Yao, Hong Lin, Shali Cai, Xiaodi Yang\* and Xike Gao\*

7069

**Iminophosphorane in perylenediimide chemistry: Staudinger reaction and a visible-light-driven competitive reaction of the Cadogan cyclization**

Maxime Roger, Oksana Krupka, Olivier Alévéque, Eric Levillain and Piétrick Hudhomme\*

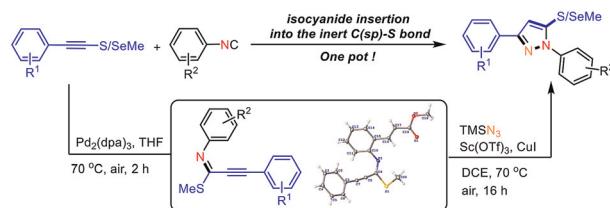


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**Direct access to thiomethyl/selenomethyl-substituted pyrazoles by combining isocyanide insertion into the inert C(sp)-S bond and intermolecular cyclization**

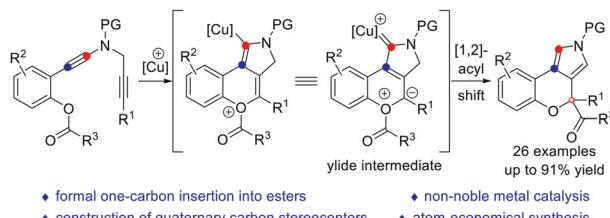
Yan He, Hua Sun, Guo-Hui Liu, Ying-Chun Wang\* and Ying-Ming Pan\*



7085

**Formal one-carbon insertion into esters via copper-catalyzed diyne cyclization/[1,2]-acyl shift**

Chong-Yang Shi, Qian Wang, Li-Gao Liu, Jing Wang, Rui Chen, Lin Liu, Long-Wu Ye,\* Xin Lu and Xin-Qi Zhu\*



7092

**Rhodium-catalyzed N-alkenylation of ketimines: one-pot synthesis of polysubstituted pyrroles**

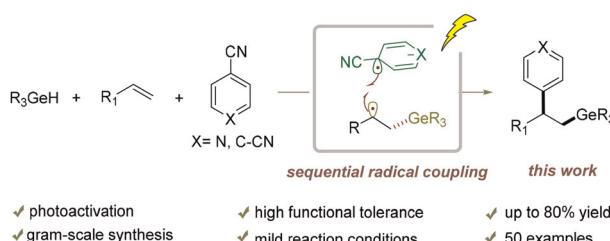
Xue-Wei Qian and Xing-Wen Sun\*



7098

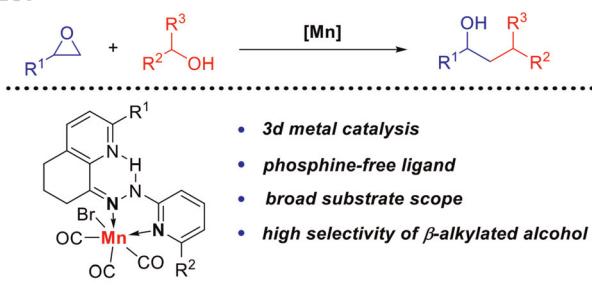
**Arylgermyylation of alkenes by a cooperative photoactivation and hydrogen atom transfer strategy**

Jia Cao,\* Yan Liu, Zhixiang Wang and Le Liu



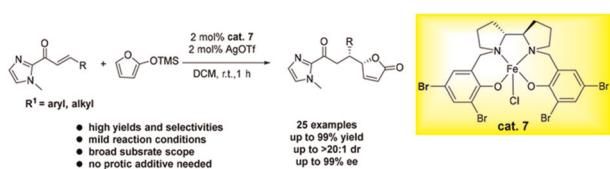
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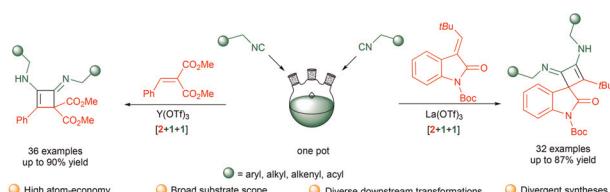
**Mn-catalyzed ring-opening and alkylation of epoxides with alcohols for accessing  $\beta$ -alkylated secondary alcohols *via* borrowing hydrogen**

Qiang Rong, Hongbin Deng, Nan Sun, Anqi Che, Xinquan Hu\* and Liqun Jin\*

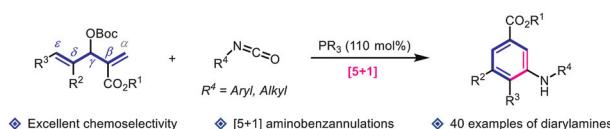
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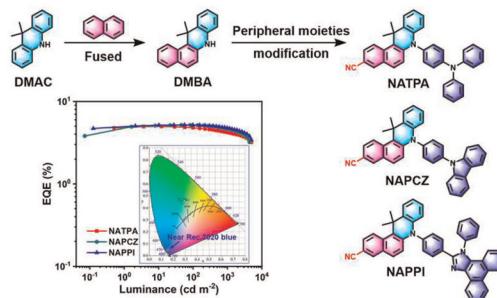


## RESEARCH ARTICLES

7136

**An acridine and naphthalene-fused chromophore for Rec. 2020 standard deep-blue OLEDs with high color purity and low-efficiency roll-off**

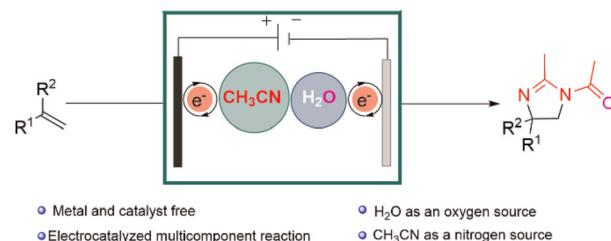
Xu Qiu,\* Xin Liu, Ying Ji, Chenglin Ma, Jingwei Li, Xinyong Liu, Jiadong Zhou and Shanfeng Xue\*



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**Electrochemically promoted diamidation of alkenes to dihydropyrazole skeleton**

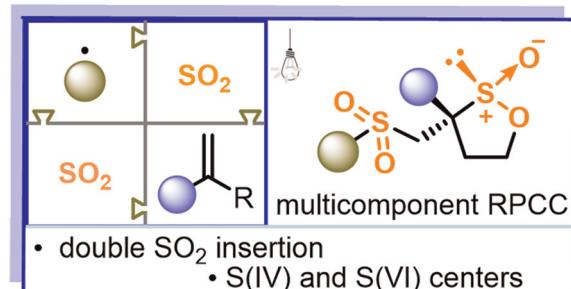
Guo-Ao Wang, Kai-Wei Chen, Yu-Da Huang, Yu-Yuan Zhang, Xiu-Jin Meng,\* Fei-Hu Cui,\* Ying-Ming Pan and Hai-Tao Tang\*



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**Four-component radical-polar crossover cyclization involving double insertion of SO<sub>2</sub> to β-sulfonyl sultines**

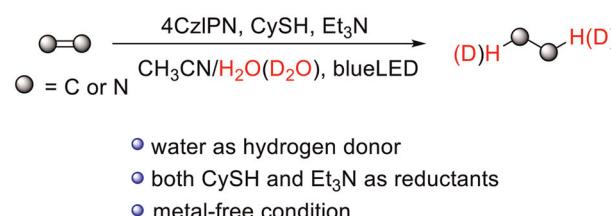
Xinyue Ma, Yongxin Zhang, Xing Fang, Xiaoxiao Yang, Pan Zhou, Shuaiqi Lu and Chao Shu\*



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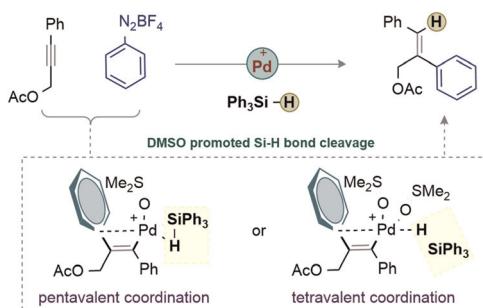
**Visible-light-induced thiol-mediated transfer hydrogenation/deuteration of activated alkenes, imines and azo compounds**

Guo-Rong Xuan, Rui-Yang Huang, Hua-Yue Wu, Miao-Chang Liu\* and Yun-Bing Zhou\*



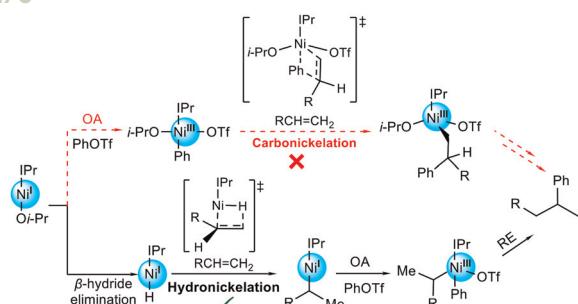
## RESEARCH ARTICLES

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**Regioselective *syn*-1,2-hydroarylation of internal alkynes**

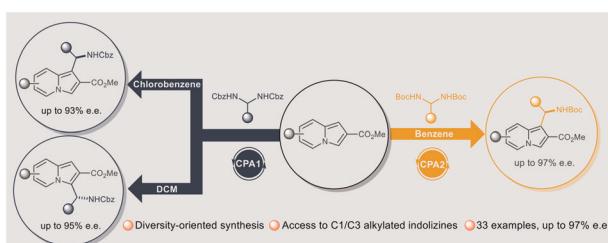
Shubham Dutta, Manoj Sethi, Avijit Maity, Aradhana Sahoo, Vincent Gandon\* and Akhila K. Sahoo\*

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**Mechanistic insight into Ni(I)-catalyzed regioselective alkene hydroarylation: is it carbonnickelation or hydronickelation?**

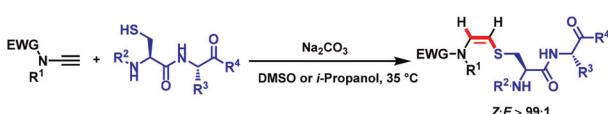
Wen-Yan Tong, Zhizheng Chen, Shuanglin Qu\* and Xiaotai Wang\*

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**Diversity-oriented chiral phosphoric acid catalyzed alkylation of indolizines with amines**

Ahmad F. Kassir, Nazar Rad, Patryk Klochowicz and Jarosław M. Granda\*

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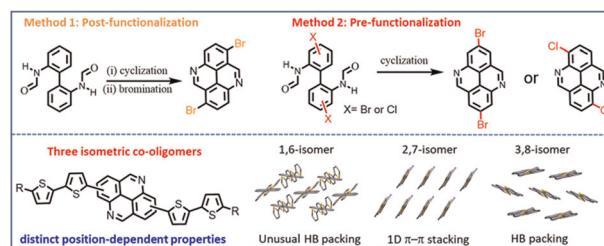
**An efficient approach to AviCys analogues via regio- and stereoselective hydrosulfuration of ynamides**

Zhenjia Zhang, Zhe Ding, Jinhua Yang,\* Yongli Zhao, Zhenguang Zhao, Can Liu, Norman Metanis\* and Junfeng Zhao\*

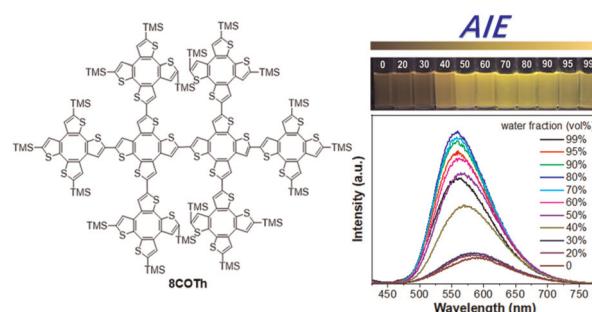


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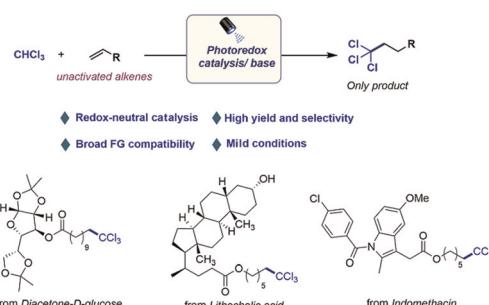
7205

**Isomeric diazapyrene–thiophene conjugated systems: synthesis, characterization, and transport properties**Honglei Li, Guodong Zhao, Qingxin Tang,  
Hongkun Tian\* and Lixiang Wang

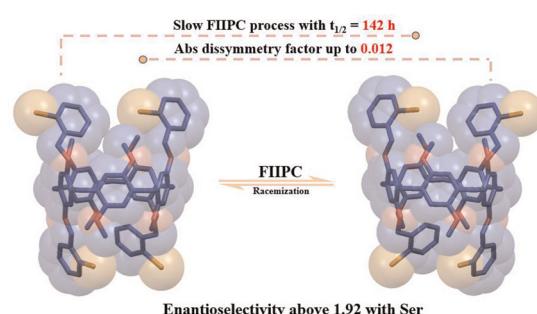
7214

**All-thiophene dendrimers based on cyclooctatetrathiophene: synthesis and aggregation-induced emission (AIE) features**Pengfei Wang, Chunmei Zhao, Shuai Qiu, Wan Xu,\*  
Chunli Li, Zhiying Ma, Wei Cao, Li Xu and Hua Wang\*

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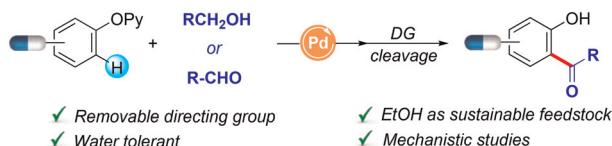
**Photocatalytic hydrotrichloromethylation of unactivated alkenes with chloroform**Dawei Gong,\* Caiyu Gao, Qixuan Li, Yufei Li, Lina Zhao\*  
and Degong Kong\*

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**Multi-step chirality transfer and racemization kinetics of pillar [5]arenes by tuning the halogen substituents on the rims**Lizhi Fang, Xiaowen Guan, Yanling Shen, Dayang Zhou,  
Long Chen, Xiaochuan Chen,\* Wanhua Wu,  
Leyong Wang\* and Cheng Yang\*

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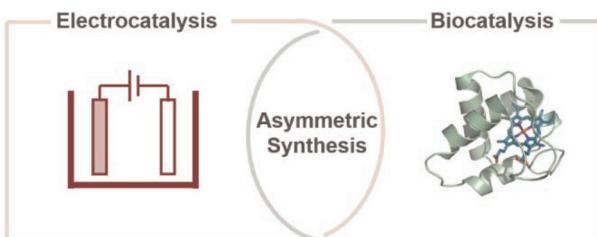


## C–H acylation as an enabling tool to tag phenolic drugs

Carlota Girón-Elola and Arkaitz Correa\*

## HIGHLIGHT

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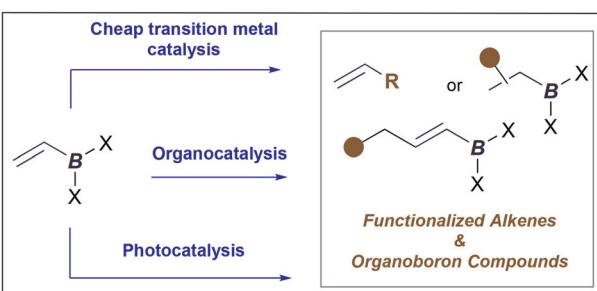


## Integrating electrocatalysis with biocatalysis for asymmetric synthesis

Yuqi Lin,\* Jiage Yu and Ke-Yin Ye\*

## REVIEWS

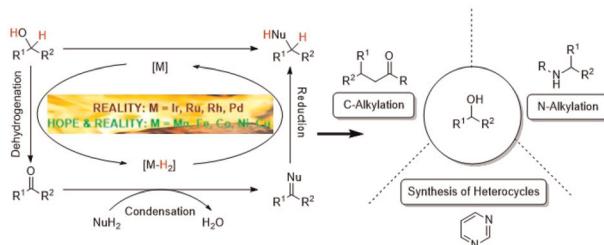
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## The reactivity of alkenyl boron reagents in catalytic reactions: recent advances and perspectives

Ya-Li Feng, Bo-Wen Zhang, Youzhi Xu, Shengnan Jin, Daniele Mazzarella\* and Zhong-Yan Cao\*

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## Hydrogen autotransfer with alcohols for alkylations

Nicolas Joly, Sylvain Gaillard, Albert Poater\* and Jean-Luc Renaud\*



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**Recent advances in carbon atom addition for ring-expanding single-atom skeletal editing**

Ting Yuan and Lei Shi\*

