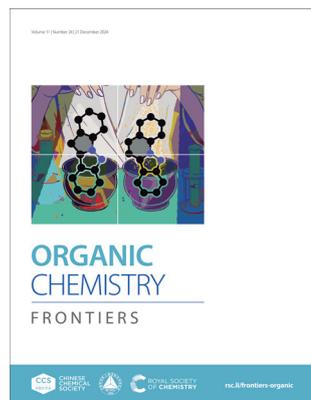


IN THIS ISSUE

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

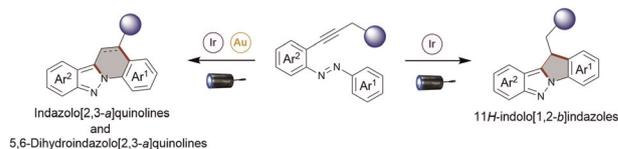
**Cover**See Estíbaliz Merino *et al.*, pp. 6974–6988.Image reproduced by permission of Estíbaliz Merino from *Org. Chem. Front.*, 2024, **11**, 6974.

RESEARCH ARTICLES

6974

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

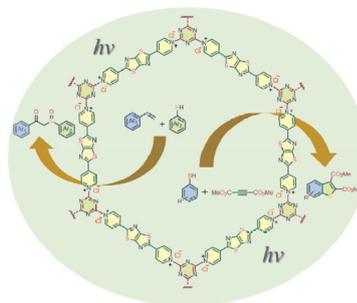
Clara Mañas, Belén Ibarra and Estíbaliz Merino*



6989

Visible-light heterogeneous photocatalysis with an ionic porous organic polymer (IPOP): synthesis of β -keto sulfoxides and benzothiophene diesters by tandem radical addition–oxidation reactions

Ajay Kumar Sahoo, Parag Tamuly and Jarugu Narasimha Moorthy*



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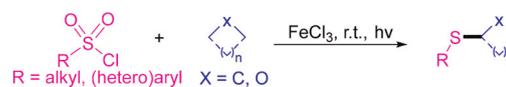
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RESEARCH ARTICLES

7001

Iron-catalyzed thiolation of C(sp³)-H with sulfonyl chlorides *via* photoinduced ligand-to-metal charge transfer

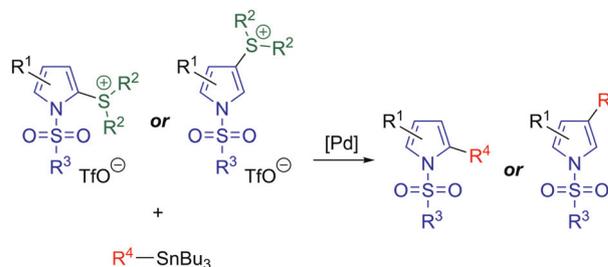
Sheng-Ping Liu, Lan Yang, Yan-Hong He* and Zhi Guan*

Terrestrially-abundant iron element No additional reducing agent required
Suitable for alkyl/aryl sulfonyl chlorides and inert/activated alkanes

7011

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

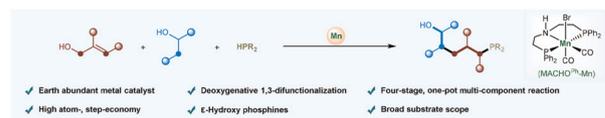
Jodie L. Hann, Catherine L. Lyall, Gabriele Kociok-Köhn and Simon E. Lewis*



7027

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

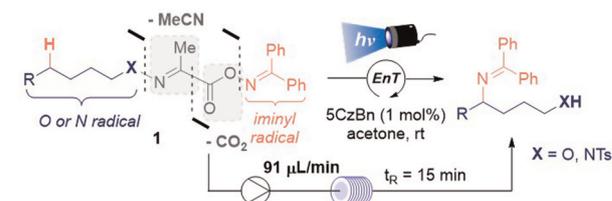
Xin Chen, Guanbo Li, Hui Ma, Sheng-Yin Zhao* and Weiping Liu*



7037

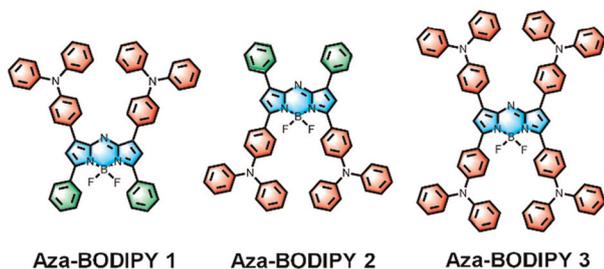
 δ -Amination of alkyl alcohols *via* energy transfer photocatalysis

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

EnT radical generation/1,5-HAT process/ δ -imination

RESEARCH ARTICLES

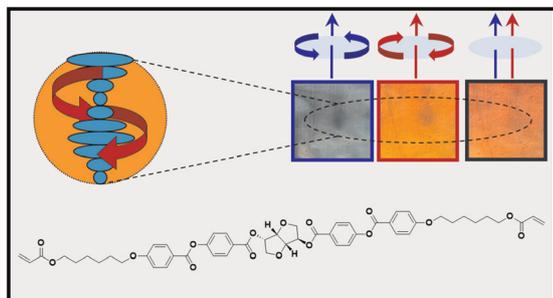
7044



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*

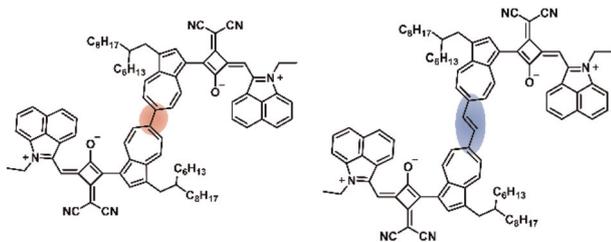
7053



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

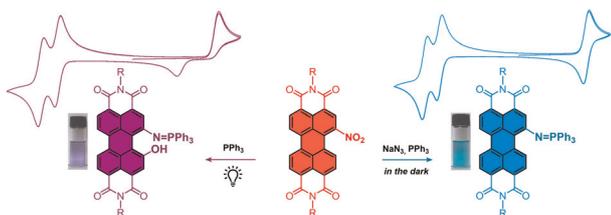


Single-bond-linked and vinylene-bridged azulenyl bis(squaraine) dyes: design, synthesis and molecular self-assembly behaviors

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

✓ $\lambda_{\text{max,abs}} \geq 900 \text{ nm}$ □ Aggregate polymorphisms ✓ Ambipolar OFET

7069



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

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

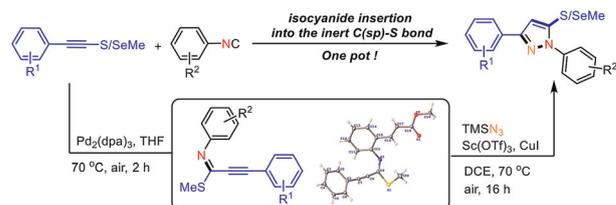


RESEARCH ARTICLES

7078

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

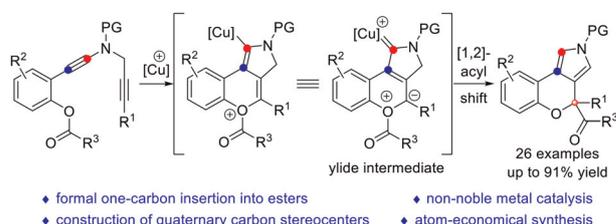
Yan He, Hua Sun, Guo-Hui Liu, Ying-Chun Wang* and Ying-Ming Pan*



7085

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

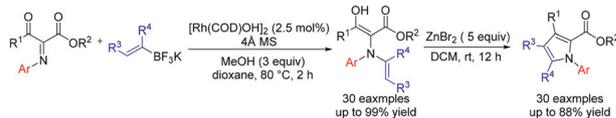
Chong-Yang Shi, Qian Wang, Li-Gao Liu, Jing Wang, Rui Chen, Lin Liu, Long-Wu Ye,* Xin Lu and Xin-Qi Zhu*



7092

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

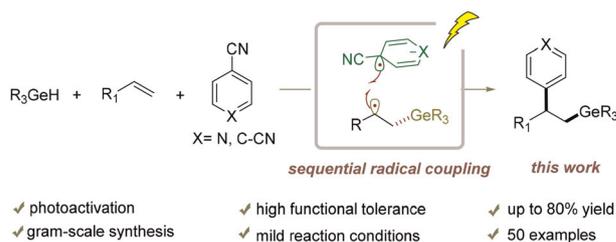
Xue-Wei Qian and Xing-Wen Sun*



7098

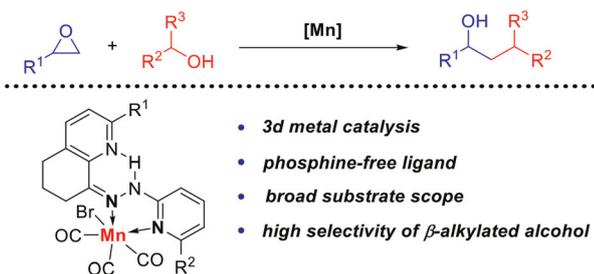
Arylgermylation of alkenes by a cooperative photoactivation and hydrogen atom transfer strategy

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



RESEARCH ARTICLES

7107

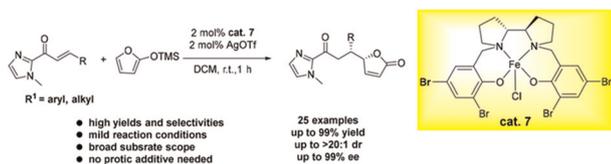


Mn-catalyzed ring-opening and alkylation of epoxides with alcohols

Mn-catalyzed ring-opening and alkylation of epoxides with alcohols for accessing β -alkylated secondary alcohols via borrowing hydrogen

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

7114



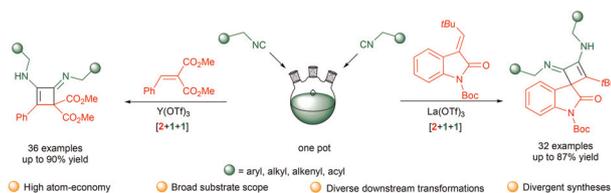
- high yields and selectivities
- mild reaction conditions
- broad substrate scope
- no protic additive needed

25 examples
up to 99% yield
up to >20:1 dr
up to 99% ee

Fe-BPsalan complex catalyzed asymmetric vinylogous Mukaiyama–Michael reaction of silyloxyfuran and α,β -unsaturated acyl imidazoles with high enantioselectivity and diastereoselectivity

Gong-Xin Li, Yi-Ming Zhou, Zhen-Jiang Xu* and Chi-Ming Che*

7121



36 examples
up to 90% yield

one pot

32 examples
up to 87% yield

- High atom-economy
- Broad substrate scope
- Diverse downstream transformations
- Divergent syntheses

Syntheses of highly functionalized cyclobutenes via [2 + 1 + 1] cycloaddition of isocyanides and an unprecedented ring expansion

Xiang Han, Xing Ma, Jiulong Yu, Dong Xiong, Wei Du, Ya-Wen Wang, Yin Tian,* Yangyang Cheng* and Jianfeng Zheng*

7130



- Excellent chemoselectivity
- [5+1] aminobenzannulations
- 40 examples of diarylamines

Phosphine-mediated formal [5 + 1] aminobenzannulations of Morita–Baylis–Hillman carbonates with isocyanates

Wei Cai, Yanxin Hu, Nan Wang and You Huang*

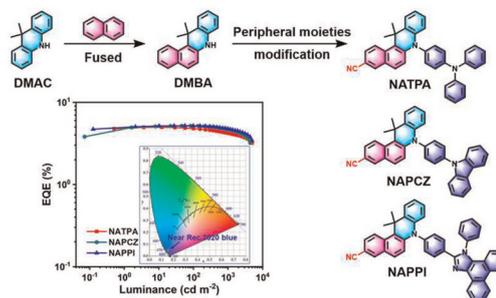


RESEARCH ARTICLES

7136

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

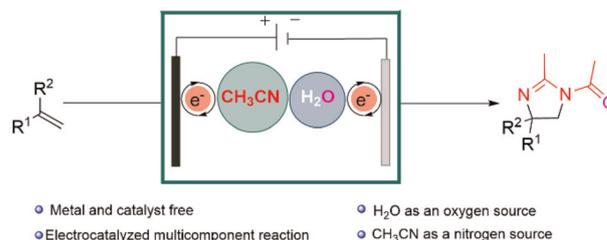
Xu Qiu,* Xin Liu, Ying Ji, Chenglin Ma, Jingwei Li, Xinyong Liu, Jiadong Zhou and Shanfeng Xue*



7147

Electrochemically promoted diamidation of alkenes to dihydroimidazole skeleton

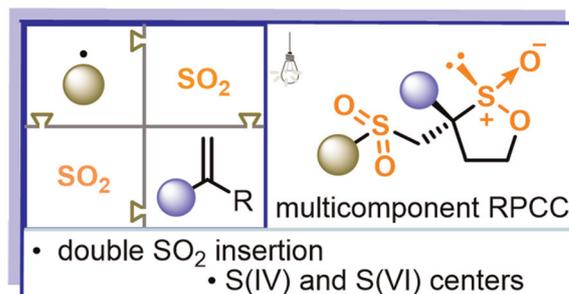
Guo-Ao Wang, Kai-Wei Chen, Yu-Da Huang, Yu-Yuan Zhang, Xiu-Jin Meng,* Fei-Hu Cui,* Ying-Ming Pan and Hai-Tao Tang*



7153

Four-component radical-polar crossover cyclization involving double insertion of SO₂ to β-sulfonyl sultines

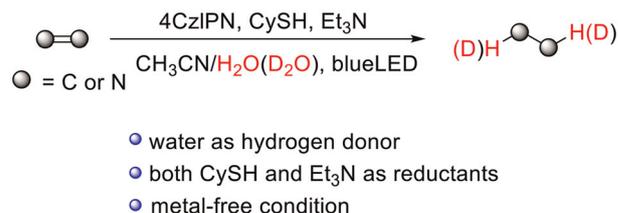
Xinyue Ma, Yongxin Zhang, Xing Fang, Xiaoxiao Yang, Pan Zhou, Shuaiqi Lu and Chao Shu*



7162

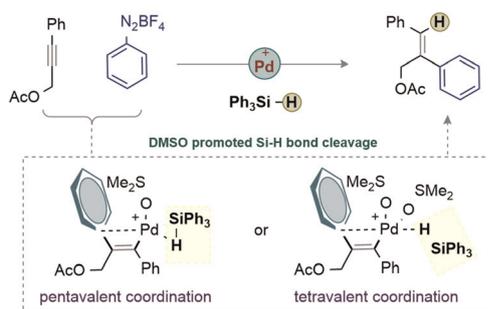
Visible-light-induced thiol-mediated transfer hydrogenation/deuteration of activated alkenes, imines and azo compounds

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



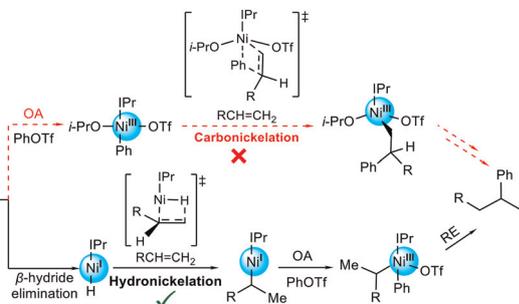
RESEARCH ARTICLES

7168

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

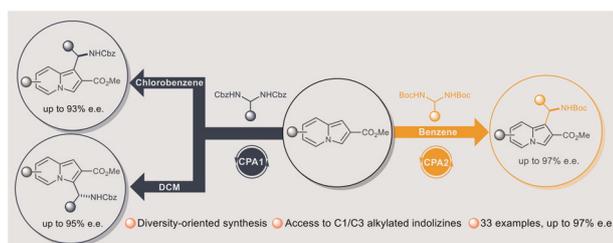
Shubham Dutta, Manoj Sethi, Avijit Maity, Aradhana Sahoo, Vincent Gandon* and Akhila K. Sahoo*

7176

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

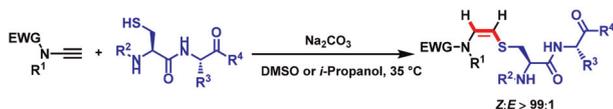
Wen-Yan Tong, Zhizheng Chen, Shuanglin Qu* and Xiaotai Wang*

7186

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

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

7199

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

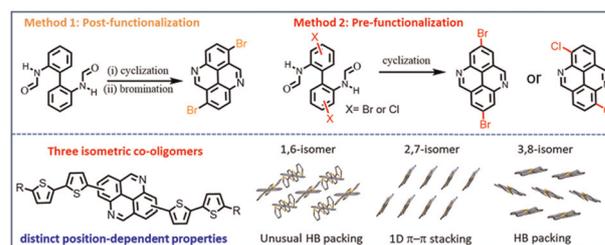
Zhenjia Zhang, Zhe Ding, Jinhua Yang,* Yongli Zhao, Zhenguang Zhao, Can Liu, Norman Metanis* and Junfeng Zhao*



7205

Isomeric diazapyrene–thiophene conjugated systems: synthesis, characterization, and transport properties

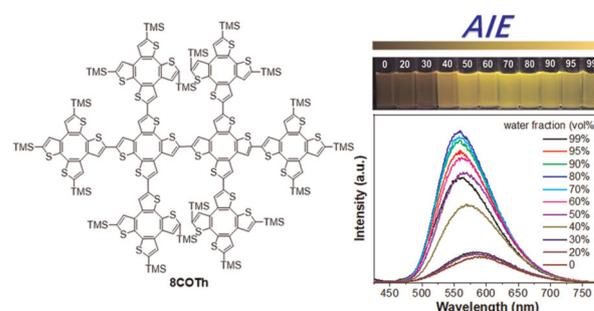
Honglei Li, Guodong Zhao, Qingxin Tang, Hongkun Tian* and Lixiang Wang



7214

All-thiophene dendrimers based on cyclooctatetrathiophene: synthesis and aggregation-induced emission (AIE) features

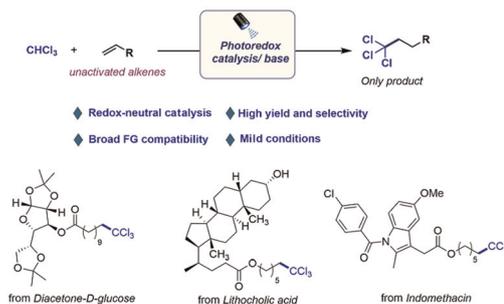
Pengfei Wang, Chunmei Zhao, Shuai Qiu, Wan Xu,* Chunli Li, Zhiying Ma, Wei Cao, Li Xu and Hua Wang*



7222

Photocatalytic hydrotrichloromethylation of unactivated alkenes with chloroform

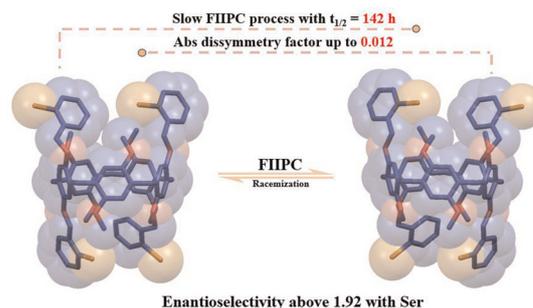
Dawei Gong,* Caiyu Gao, Qixuan Li, Yufei Li, Lina Zhao* and Degong Kong*



7229

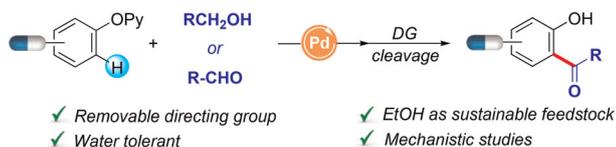
Multi-step chirality transfer and racemization kinetics of pillar [5]arenes by tuning the halogen substituents on the rims

Lizhi Fang, Xiaowen Guan, Yanling Shen, Dayang Zhou, Long Chen, Xiaochuan Chen,* Wanhua Wu, Leyong Wang* and Cheng Yang*



RESEARCH ARTICLES

7235

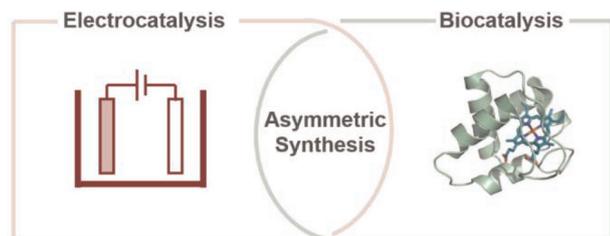


C–H acylation as an enabling tool to tag phenolic drugs

Carlota Girón-Elola and Arkaitz Correa*

HIGHLIGHT

7243

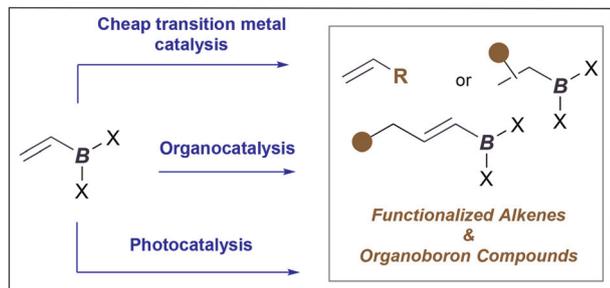


Integrating electrocatalysis with biocatalysis for asymmetric synthesis

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

REVIEWS

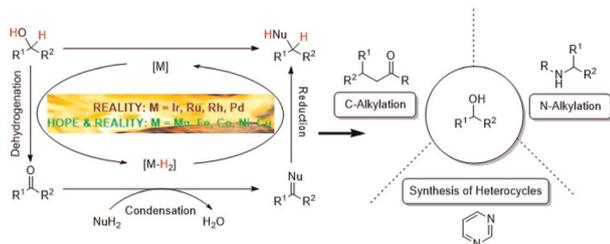
7249



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*

7278



Hydrogen autotransfer with alcohols for alkylations

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



REVIEWS

7318

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

Ting Yuan and Lei Shi*

