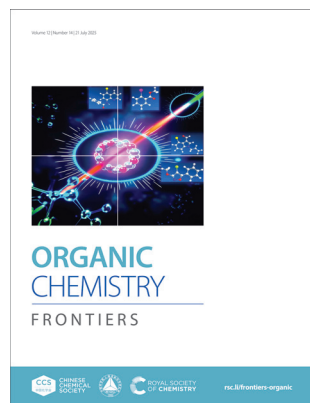


IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 12(14) 3945–4198 (2025)

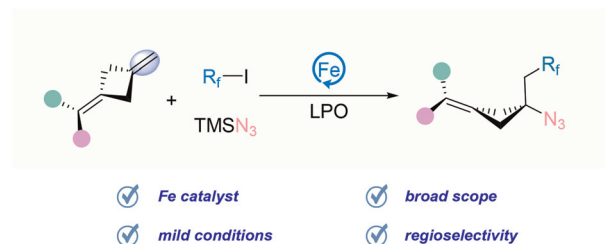
**Cover**See Kamaldeep Paul *et al.*, pp. 4066–4125.Image reproduced by permission of Kamaldeep Paul from *Org. Chem. Front.*, 2025, **12**, 4066.

RESEARCH ARTICLES

3954

Iron-catalyzed regioselective carboazidation of alkenes for the synthesis of multi-substituted cyclobutylamines

Yufei Li, Yajun Li* and Hongli Bao*

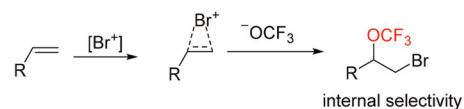


3960

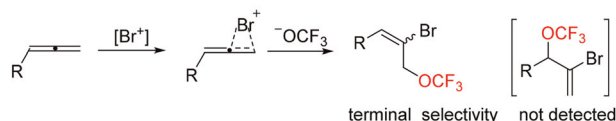
Bromotrifluoromethoxylation of allenes: expedient access to allylic trifluoromethoxy derivatives

Rui Liu, Yangdong Hou* and Pingping Tang*

(a) Bromotrifluoromethoxylation of alkenes (previous work)



(b) Bromotrifluoromethoxylation of allenes (this work)



EES Solar

**Exceptional research on solar
energy and photovoltaics**

Part of the EES family

**Join
in** | Publish with us
rsc.li/EESolar

RESEARCH ARTICLES

3965

Metallaphotoredox-enabled enantioselective aryldifluoromethyl-alkynylation of alkenes via C(sp³)-F bond activation

Jialin Huang, Liying Fu, Xiaofei Zhao, Xingda Zhao, Zhanyong Tang, Xiaoqiang Ma and Depeng Zhao*

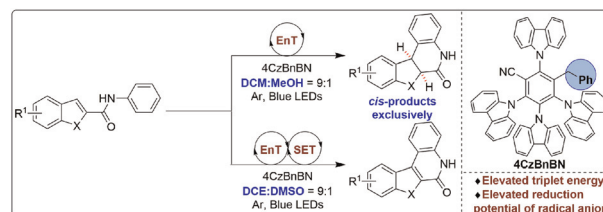


- Enantioselective three-component reaction via C(sp³)-F bond activation
- Broad substrate scope
- Late-stage functionalization
- Commercially available starting materials
- Mild reaction conditions

3976

Solvent-controlled 4CzBnBN-catalyzed intramolecular photocyclization and dehydrogenative photocyclization of indole carboxamides for the switchable synthesis of indoloquinolones and dihydroindoloquinolones

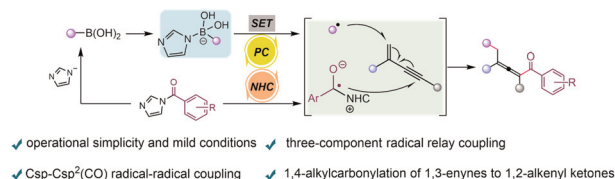
Yihao Zhang, Peng Zhang, Hang Zhao, Xing Wang, Xia Zhou, Yimou Gong, Lin Wang, Siping Wei, Zhijie Zhang and Qiang Fu*



3984

NHC and photoredox co-catalyzed 1,4-alkylcarbonylation of 1,3-enynes

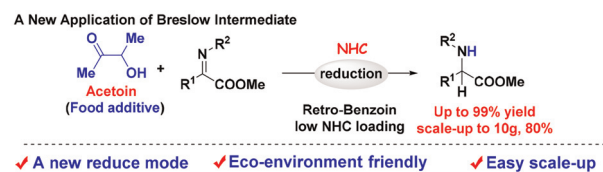
Zhaoyang Zhang, Jia-Yi Yang, Shihao Li,* Xiao-Xuan Li* and Yi-Si Feng*



3990

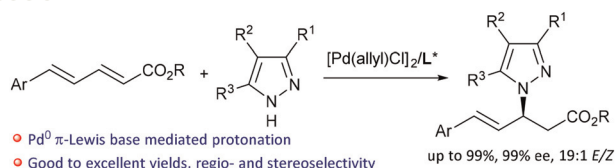
Carbene-catalyzed imine reductive reaction: a new application of Breslow intermediates

Hui Zhu, Han Xiao, Lihe Wang, Bo Jiang, Qingyun Wang, Shuquan Wu* and Pengcheng Zheng*



RESEARCH ARTICLES

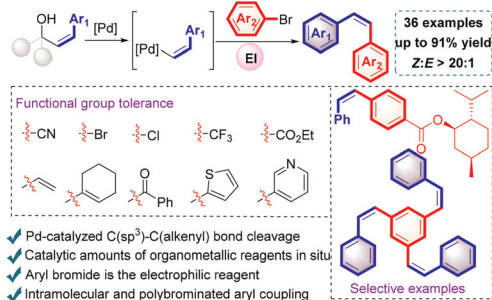
3998



Palladium-catalysed asymmetric regioselective hydroamination of dienates

Bao-Xin Liu, Xin-Ting Qin, Shi-Cun Li, Lei Zhu, Qin Ouyang,* Wei Du* and Ying-Chun Chen*

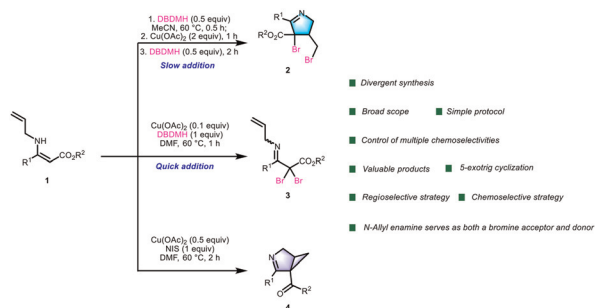
4006



Palladium-catalyzed Z-alkenylative cross-coupling via β-alkenyl elimination of Z-allylic alcohols

Xue-Mei Huang, Cheng Liang, Si-Qi Xiong, Xue Zhang, Kai-Xian Ma, Qing-Hua Li* and Tang-Lin Liu*

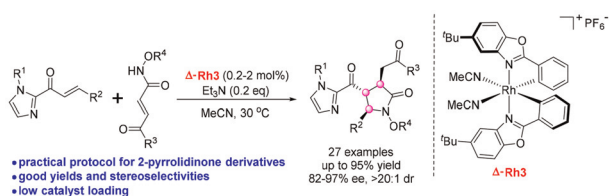
4012



Copper-mediated divergent synthesis of halogenated 1-pyrrolines, 3-azabicyclo[3.1.0]hex-2-enes and α,α-dibromo imines from N-allyl enamines

Xiyan Duan,* Junqi Wang, Kun Liu, Fengjiao Du, Maoling He, Wenxin Li, Xinming Liu and Pu Liu*

4018



Construction of chiral γ-lactam scaffolds via asymmetric cascade [3 + 2] annulation of N-alkoxyacrylamides catalyzed by a chiral-at-metal rhodium complex

Wan-Shun Cheng, Yong-Bing Ke, Yang Chen, Hui-Ting Cui, Rui-Qiu Zhang, He-Lin Lu, Ping Xue, Xiao-Bo Wang, Shi-Wu Li* and Jun Gong*

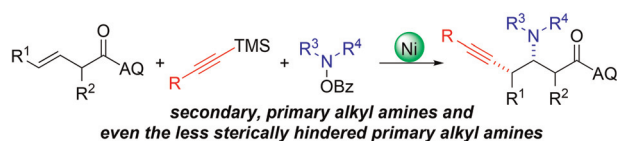


RESEARCH ARTICLES

4024

Ni-catalyzed regio- and diastereoselective *syn*-alkynylamination of unactivated alkenes using alkylamine sources

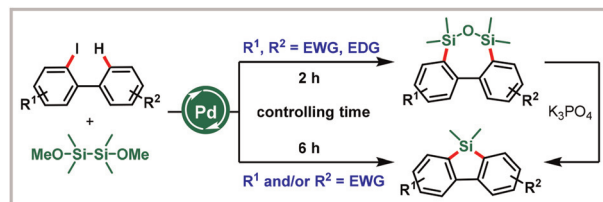
Yixuan Wan, Cong Lin,* Yihuan Cheng and Liang Shen*



4031

Dimethoxytetramethyldisilane: overcoming the limitations of palladium-catalyzed C–H silacyclization of 2-iodobiphenyls

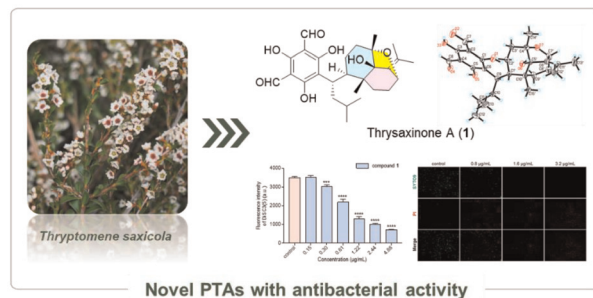
Zhengrui Zhou, Xuliang Tan, Shuyun Peng, Yun Liang* and Yuan Yang*



4037

Thrysaxinones A–F: antibacterial phloroglucinol-terpenoid adducts from *Thryptomene saxicola*

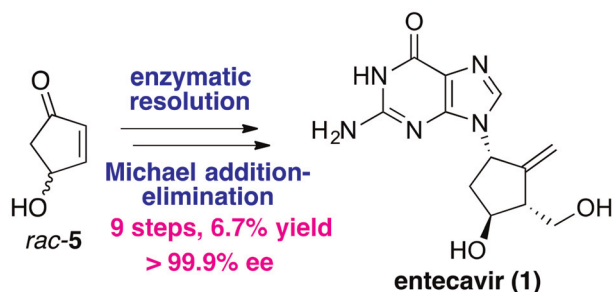
Wei-Fang Su, Ni-Ping Li, Rui-Qin Cui, Fen Liu, Mu Chen, Xin-Yue Wu, Min-Jing Cheng, Jia-Qing Cao, Wei Huang, Xiao-Qi Zhang,* Wen-Cai Ye* and Lei Wang*



4045

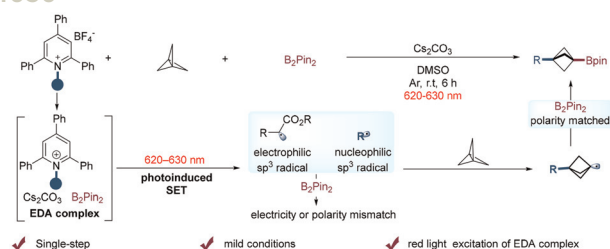
An efficient total synthesis of (+)-entecavir

Chenlong Zhu, Nanlian Li, Yaopeng Ma and Bingfeng Sun*



RESEARCH ARTICLES

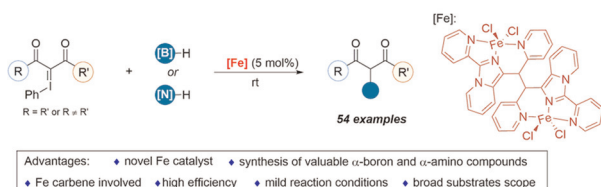
4050



Metal and photocatalyst-free alkylboration of [1.1.1]propellane enabled by red-light-induced electron transfer

Yuying Wang, Jianyang Dong,* Yulin Xiao, Zhilin Wang, Weilin Wu and Dong Xue*

4058

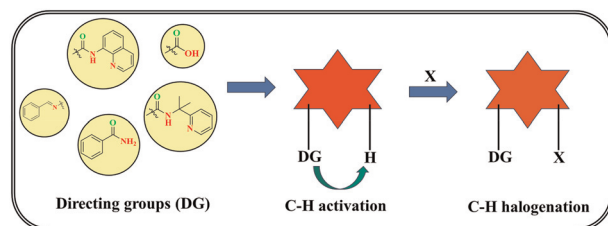


Fe-Catalyzed B–H and N–H insertion reactions of iodonium ylides

Hejun An, Zhi Cui, Jinchao Liang, Xingxing Ma, Jinglong Chen* and Qiuling Song*

REVIEWS

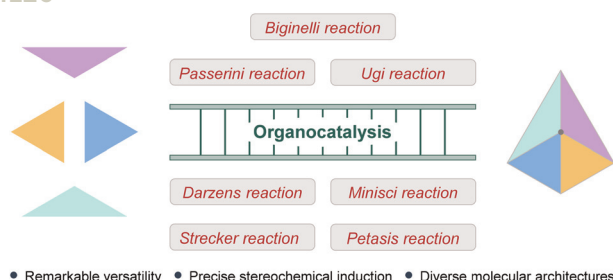
4066



C–H bond halogenation: unlocking regiodivergence and enhancing selectivity through directing group strategies

Palak Sharma, Vijay Luxami and Kamaldeep Paul*

4126



Recent advances in organocatalytic asymmetric multicomponent reactions

Peng-Ying Jiang, San Wu, Jun (Joelle) Wang,* Shao-Hua Xiang and Bin Tan*

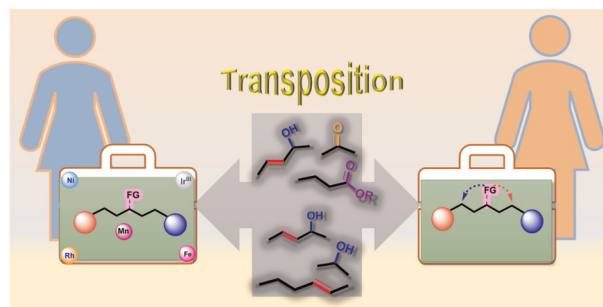


REVIEWS

4151

Recent developments in organic synthesis for constructing carbon frameworks using transposition strategies

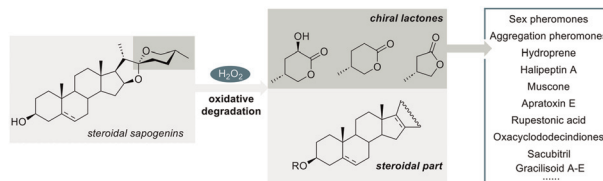
Savita Narayanrao Gat, Piyusa Priyadarsan Pattanaik and Rambabu Dandela*



4181

Steroidal sapogenin-derived chirons: underdeveloped building blocks with methyl-branched chiral centers

Yu-Chuan Pu, Gen-Ying Liu, Ran Gao* and Cheng-Yu He*



CORRECTION

4195

Correction: NaH-promoted one-pot oxidation/aromatization and C-3H chalcogenation of indoline: atmospheric control-based selective intermediates

Suman Majee, Km. Anjali, Shaily Agarwal, Vishnu Poonia, Alok Kumar Singh, Biswajit Guchhait and Devalina Ray*

