

IN THIS ISSUE

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Cover

See Kwihwan Kobayashi,
Shun-ya Onozawa,
Shū Kobayashi *et al.*,
pp. 6394–6400.

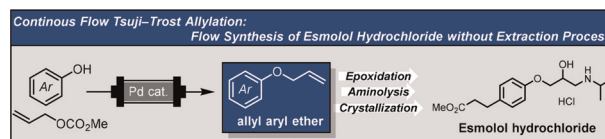
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Kwihwan Kobayashi from
Org. Chem. Front., 2025, **12**,
6394.

RESEARCH ARTICLES

6394

**Pd-catalysed flow Tsuji–Trost allylation of phenols:
continuous-flow, extraction-free synthesis of
esmolol via allylation, epoxidation, and aminolysis**

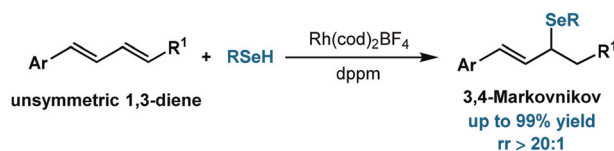
Kwihwan Kobayashi,* Maiko Yamashita,
Takenori Kimura, Yoshihiro Kon, Takuya Nakashima,
Shun-ya Onozawa* and Shū Kobayashi*



6401

**Rhodium-catalyzed hydroselenation of
unsymmetric 1,3-dienes with 3,4-Markovnikov
regioselectivity**

Anee Taj, Chen Cui, Zhenwei Shi, Xuebin Huang* and
Xiao-Hui Yang*



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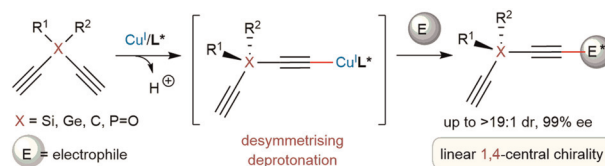
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RESEARCH ARTICLES

6407

Diastereoselective and enantioselective construction of 1,4-nonadjacent alkyne-tethered products through Cu^I-promoted deprotonation and addition of terminal alkynes

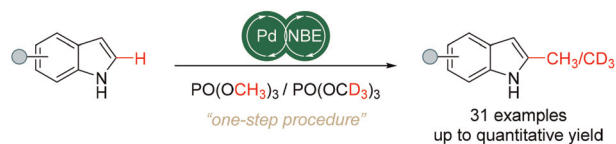
Jia-Le Zheng, Wan-Hong Yuan, Han-Wen Zheng, Wei Du* and Ying-Chun Chen*



6415

Regioselective one-step C2–H methylation of free (N–H) indoles enabled by Pd(II)/norbornene cooperative catalysis

Yutong Sun, Wenlin Zhang, Ying Liu, Zhixin Zhang, Mengyao Hu, Xiaoguang Liu,* Hongbo Qin* and Helin Lu*

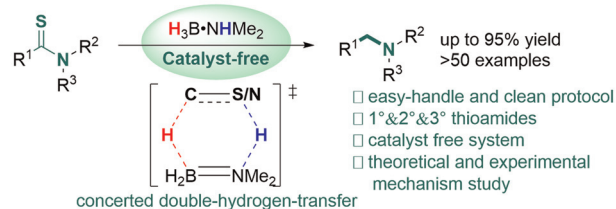


- Free (N-H) Indoles w/o Directing Groups
- Mild Reaction Conditions
- Excellent Functional Group Tolerance
- Air/Moisture Insensitive & Scalable

6423

Catalyst-free reductive desulfurization of thioamides with ammonia borane through a concerted double-hydrogen transfer mechanism

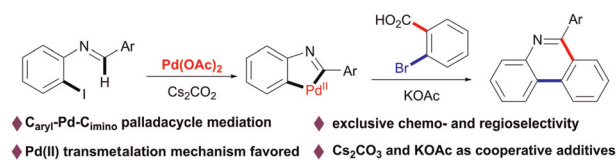
Weikang Li, Zhe Chen, Chuanyi Xiong, Zhenjie Yang, Ning Wang, Peifeng Su, Yaru Jing, Haihua Huang and Zhuofeng Ke*



6433

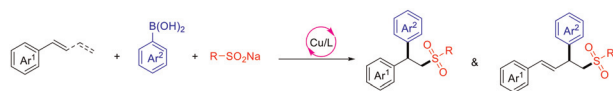
Synthesis of phenanthridines via a palladium-catalyzed annulation of 2-iodobenzimines with 2-halobenzoic acids

Ying Fu,* Hao Chen, Yu Luo, Wenying Yang, Liying Jia and Zhengyin Du*



RESEARCH ARTICLES

6443

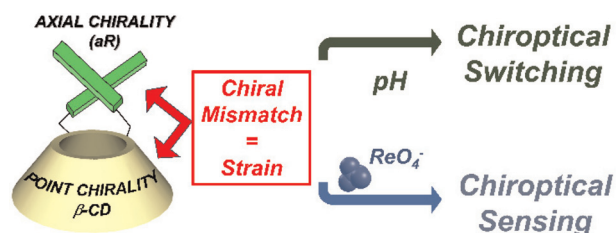


- 60 examples
- up to 77% yield
- excellent regioselectivity & stereoselectivity (for 1,3-dienes)
- room temperature
- Late-stage functionalization
- synthetic transformations
- mechanistic studies

Copper-catalyzed three-component 1,2-aryl sulfonylation of vinylarenes and 1,3-dienes with sodium sulfonates

Wei-Hao Rao,* Chang Gao, Li-Li Jiang, Xiao-Wen Dong, Yi-Wen Li, Chen-Xi Ge, Jia Li and Meng-Cheng Zhang

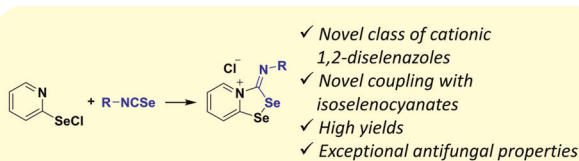
6450



Manipulating stereo-communication in binaphthol-bridged α - and β -cyclodextrins to develop β -selective chiroptical pH switching and anion sensing in water

Giovanni Preda, Sonia La Cognata, Laura Pedraza-González, Laurine Carlier, Maxime Kolb, Gennaro Pescitelli, Valeria Amendola, Dominique Armspach* and Dario Pasini*

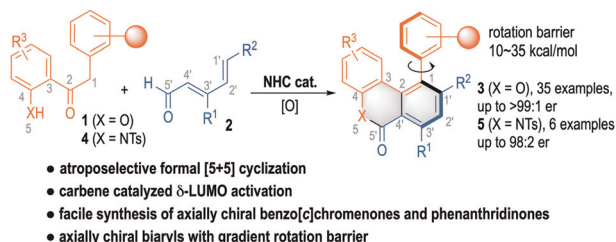
6460



A novel class of 1,2,4-diselenazoles obtained via cationic polar cycloaddition between ambiphilic 2-pyridylselenenyl reagents and isoselenocyanates exhibiting high antifungal activity

A. A. Saprionov, O. G. Chusova, A. S. Peregudov, A. S. Kubasov, V. N. Khrustalev, A. V. Borisov, Z. V. Matsulevich, E. V. Chipinsky, V. K. Osmanov, R. M. Gomila, A. Frontera, V. G. Nenajdenko and A. G. Tskhovrebov*

6472



Atroposelective [5 + 5] formation of benzo[c]chromenone and phenanthridinone by carbene organocatalysis

Ke Xu, Kejun Lin, Jiayi Zhao, Jingmei Zeng and Tingshun Zhu*

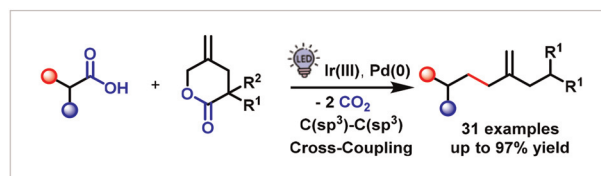


RESEARCH ARTICLES

6480

Palladium/photoredox catalysis for a decarboxylative radical $C(sp^3)-C(sp^3)$ cross-coupling reaction of γ -methylidene- δ -valerolactones with alkyl carboxylic acids

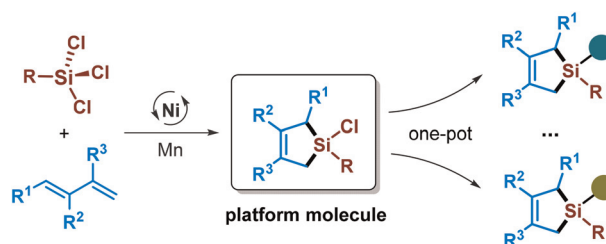
Ran Song, Jiaxing Li, Lin Li, Huaixi Mu, Wei Feng, Daoshan Yang, Wen Si* and Jian Lv*



6486

Nickel-catalyzed [4 + 1] sila-cycloaddition: a divergent synthesis of silacarbocycles from trichlorosilanes

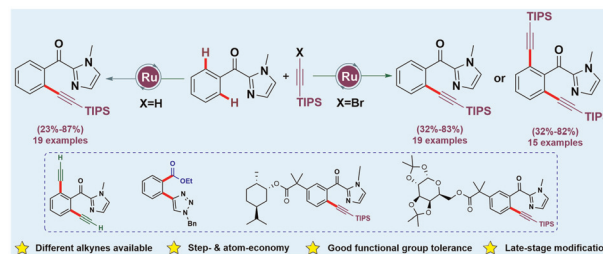
Liangliang Qi, Peng-Fei Xu, Yu-Ke Wu, Xiaobo Pang* and Xing-Zhong Shu*



6493

Ru(II)-catalyzed direct alkynylation of 2-acylimidazoles with TIPS-alkynes or TIPS-bromoalkynes under air

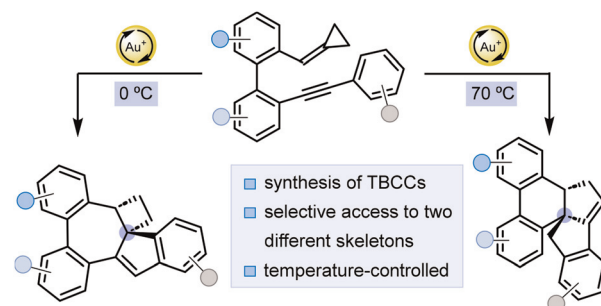
Yuting Gui, Xingchi Li, Ting Fu, Taoyuan Liang, Zequan Li, Shuangliang Zhao* and Zhuan Zhang*



6499

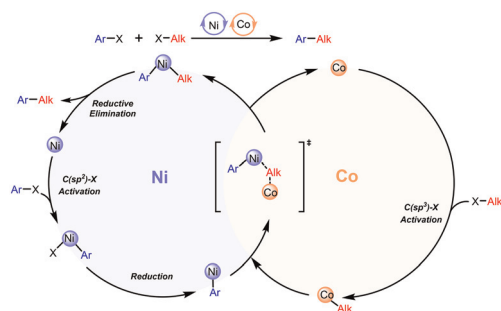
Divergent synthesis of two polycyclic frameworks containing tricyclic bridgehead carbon centers by gold-catalyzed cycloisomerization of o -cyclopropylidenemethyl- o' -alkynylbiaryls

Lucía Sánchez-Jiménez, Adrián Gargantiel, Manuel A. Fernández-Rodríguez* and Patricia García-García*



RESEARCH ARTICLES

6506



Synergistic Ni/Co catalysis in C(sp²)-C(sp³) reductive coupling: a DFT study

Junjie Liu, Fengjiao Xiao, Weichi Chen and Abing Duan*

6513



Use of Cyclopropylsilyl alcohols in Prins cyclization

Good yields

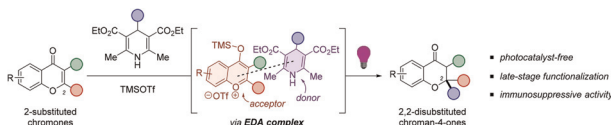
Stereoselective construction of quaternary stereocenters

High structural diversity

Expanding the silyl-Prins toolbox: selective access to C4-quaternary stereocenters in tetrahydropyrans using internal cyclopropylsilyl alcohols

Paula González-Andrés, Alberto Cherubin and Asunción Barbero*

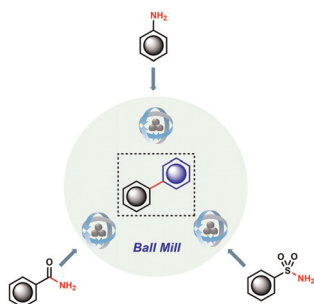
6519



Radical conjugate addition to 2-substituted chromones via an electron donor-acceptor complex

Yunbi Koh, GaYeon Yoo, Jinsung Tae, Sanghee Lee and Ansoo Lee*

6528



The mechanochemical production of biphenyls from nitrogen-containing organic compounds: amides, anilines, and sulfonamides

Satenik Mkrtchyan,* Oleksandr Shalimov, Michael G. Garcia, Sehrish Sarfaraz, Khurshid Ayub, Spartak Khutsishvili, Gabriela Addová, Juraj Filo, Mohanad Shkoor, Vishal B. Purohit, Yevhen Karpun, Vitaliy Yepishev, Jiří Zapletal, Elena Kupcová, Barbora Benická and Viktor O. Iaroshenko*

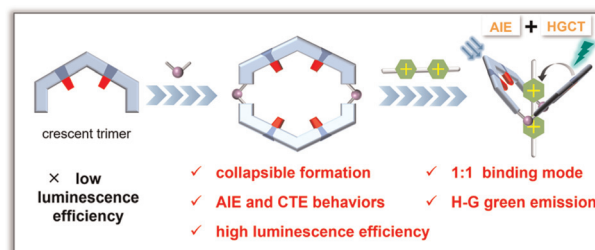


RESEARCH ARTICLES

6542

Conformation-tunable hydrogen-bonded calix[2]aramide macrocycles: bridging aggregation-induced emission and charge-transfer host-guest chemistry

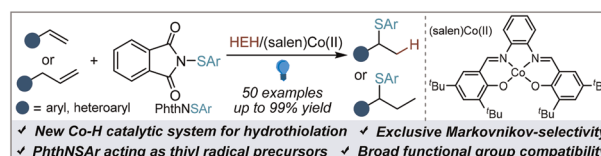
Ziying Lu, Xiongri Ai, Yingxiao Mu,* Mingbing Lian, Yanping Huo and Zecong Ye*



6548

Light-promoted cobalt-catalyzed radical Markovnikov hydrothiolation of alkenes with *N*-arylsulfonyl phthalimides

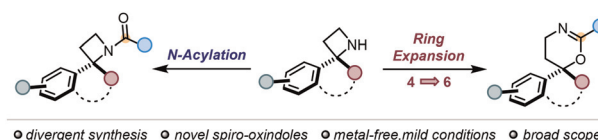
Xiang-Rui Li, Rong-Jin Zhang, Ting-Ting Miao, Yonghong Xiao, Kun-Quan Chen and Jian-Ji Zhong*



6556

Structurally divergent reactivity of 2,2-disubstituted azetidines – mechanistic insights and stereochemical implications of amide coupling and ring expansion to 5,6-dihydro-4*H*-1,3-oxazines

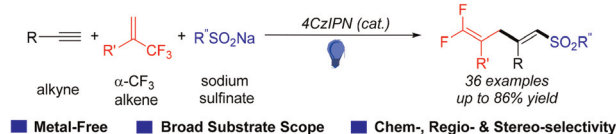
Aditya K. Sahay, Callum S. Begg, Xiurong Zhang, James. A. Bull and Alan C. Spivey*



6564

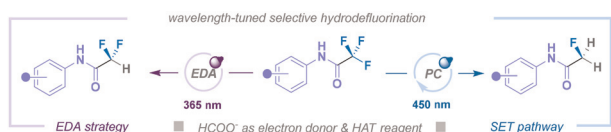
Photocatalyzed defluorinative allylsulfonylation of alkynes to access *gem*-difluorinated sulfonyl-1,4-dienes

Meng-Dan Wang, Hua-Hua Wang, Lin-Xi Xiao, Xing-Guo Zhang* and Hai-Yong Tu*



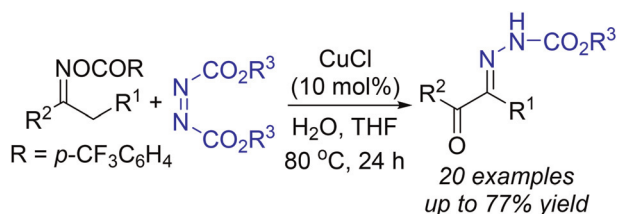
RESEARCH ARTICLES

6569

**Wavelength-tuned, photocatalytic chemoselective hydrodefluorination**

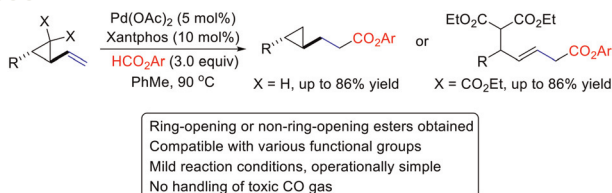
Meng Guo, Zhi-Peng Ye, Yong-Qing Ye, Xiao-Qing Chen, Kai Chen* and Hua Yang*

6575

**Copper-catalyzed synthesis of hydrazone derivatives using oxime esters and azodicarboxylates**

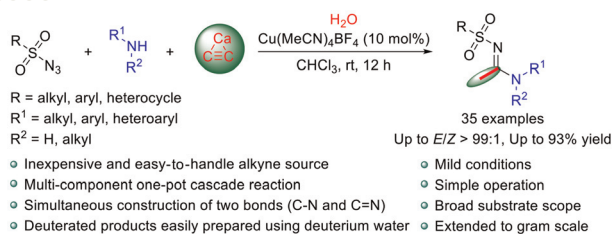
Hengming Yang, Jiangna Yue, Hongda Xia, Chongchong Ma, Chenjie Lu, Xike Wang, Zhuochen Hu, Zhaoyang Yu, Xia Fan and Rongshun Chen*

6582

**Pd-catalyzed hydroesterification of vinyl cyclopropanes with aryl formates**

Junhua Li, Chunyin Li, Jing Li, Zhanwei Wang, Fengyin Wang and Yian Shi*

6588

**Highly stereoselective synthesis of *N*-sulfonyl amidines with calcium carbide as an acetylene source**

Rui An, Weihao Cui, Peiming Gu and Meng-Xue Wei*

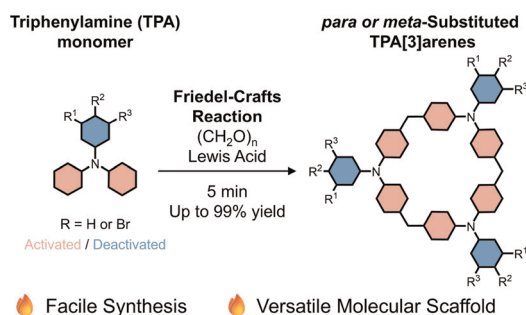


RESEARCH ARTICLES

6594

Streamlined synthesis of *meta*- or *para*-substituted triphenylamine[3]arenes and their hierarchical assembly into polyhedral cages

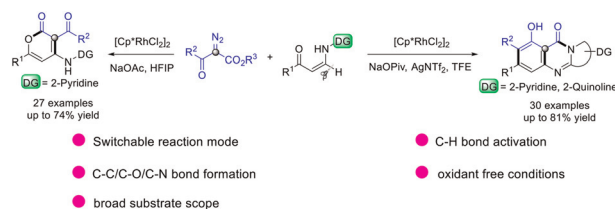
Wangjian Fang,* Xin Li, Audrey Nathania Johan, Yimin Zhang, Guoqiang Jiang and Andrew C.-H. Sue*



6602

Rh(III)-catalyzed cascade cyclization of enaminones with diazo compounds: switchable syntheses of 2-pyrones and pyrido-quinazolinones

Hongxiang Huang, Ruimeng Zhang, Leiqing Fu* and Jie-Ping Wan

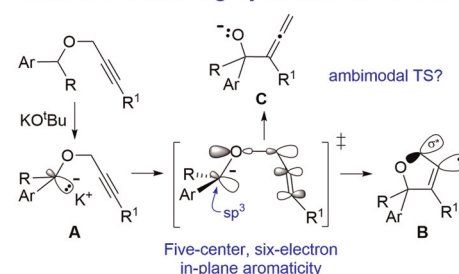


TUTORIAL ACCOUNT

6609

Anionic 5-*endo-dig* cyclizations: an experimental investigation of in-plane aromaticity involving a non-enolate carbanion nucleophile

Kristina M. Nugent, Silas Q. Hintze, Pradip Maity and Salvatore D. Lepore*

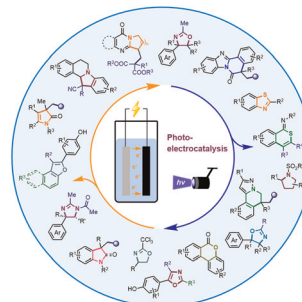
Anionic 5-*endo-dig* cyclizations do work!

HIGHLIGHT

6614

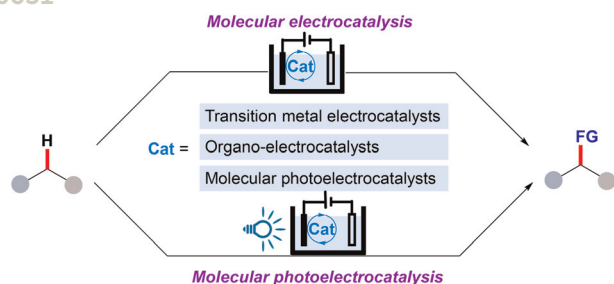
Harnessing the synergistic power of light and electricity: an emerging frontier in catalytic heterocycle synthesis

Yanchen Chen and Binbin Huang*



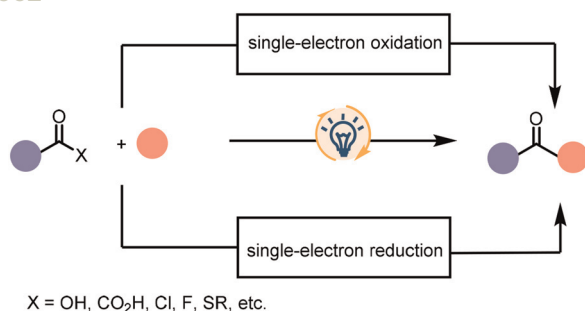
REVIEWS

6631

Recent advances in C(sp³)–H functionalization via molecular electrocatalysis

Xiao-Li Lai, Ying-Kai Lai, Peng Xiong* and Hai-Chao Xu*

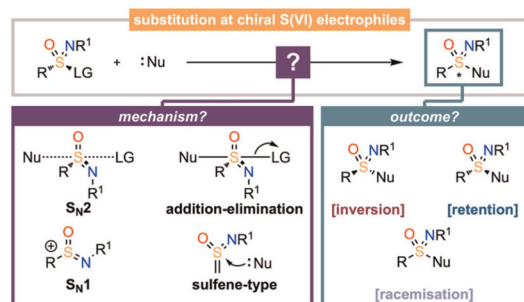
6662



Photocatalytic ketone synthesis: recent advances in radical-based approaches from carboxylic acids and derivatives

Shengbiao Yang,* Xiaochen Wang,* Lan Bao, Tianzhen Wang, Lingang Wu* and Qingmin Wang*

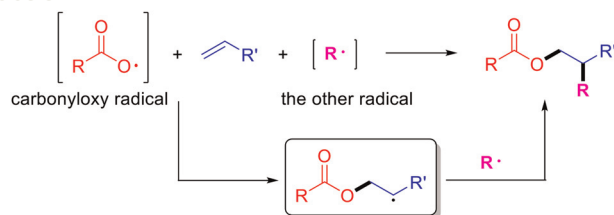
6681



The stereochemistry of substitution at S(vi)

Oliver L. Symes and James A. Bull*

6698



Recent advances in the intermolecular addition of carbonyloxy radicals to alkenes

Jun Pan, Yuting Feng, Huijun Qian, Leiyang Lv* and Zhiping Li*



REVIEWS

6717

Nitrosobenzenes as a stepping stone for the development of transition metal and metal-free organic transformations: a comprehensive review

Nandini R. and Ramesh B. Dateer*

