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Cover
See Yousuke Ooyama *et al.*, pp. 5194–5202.

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REVIEWS

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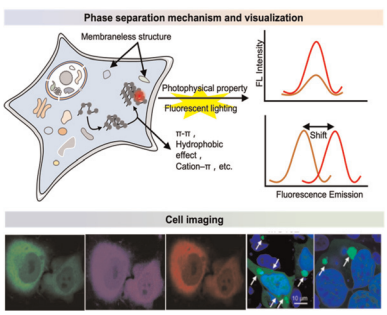
Fluorogenic methodology for visualization of phase separation in chemical biology

Jiabao Fang, Yubo Huang, Jichun Wu, Baoxing Shen,* Yaqiong Yang* and Minzi Ju*



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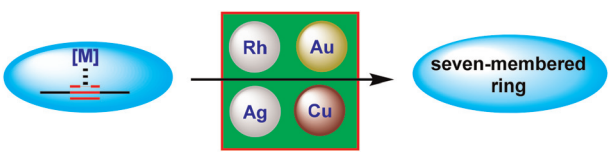
Recent advances in transition-metal-catalyzed Büchner reaction of alkynes

Guang Ma, Kua-Fei Wei, Man Song, Yu-Li Dang, Yang Yue, Bing Han,* Hui Su* and Wen-Bo Shen*



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COMMUNICATIONS

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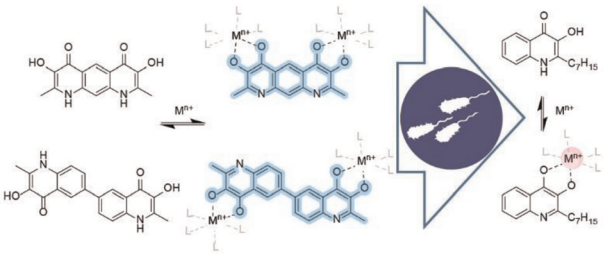
Beyond iron: metal-binding activity of the *Pseudomonas* quinolone signal-motif

Dávid Szamosvári, Viktoriia Savchenko, Natalie Badouin and Thomas Böttcher*



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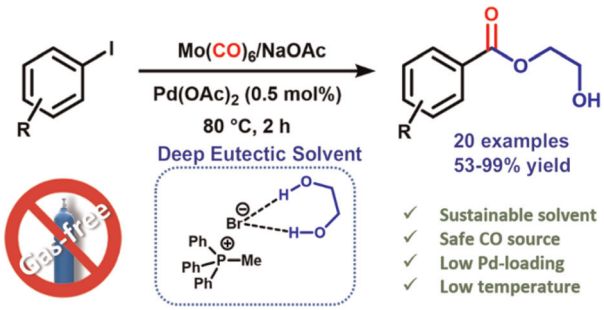
Gas-free alkoxycarbonylation of aryl iodides in a phosphonium-based deep eutectic solvent with $Mo(CO)_6$ as a solid CO source

Francesco Messa, Andrea Nicola Paparella, Serena Perrone* and Antonio Salomone*



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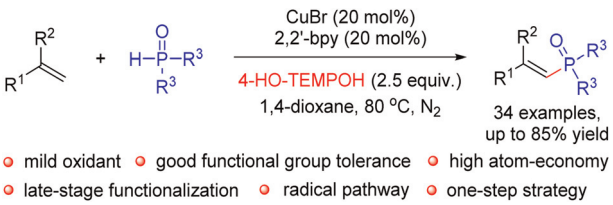
Copper-catalyzed 4-HO-TEMPOH mediated phosphorylation of alkenes

Jun-Long Zhan,* Bing-Jie Wang, Chen-Xi Wang, Xin-Ming Zhao, Sai-Nan Zhou, Zao-Zao Dou, Xin-Xin Yang, Lin Zhu* and Wei Ren



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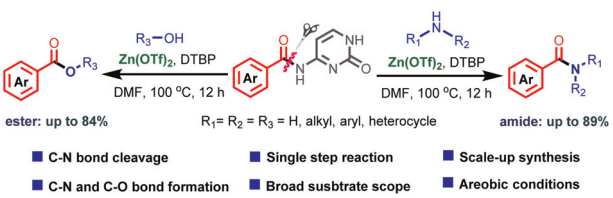
Zinc-catalyzed transamidation and esterification of *N*-benzoyl cytosine *via* C–N bond cleavage

Sujeet Gaware, Rana Chatterjee, Anant R. Kapdi and Rambabu Dandela*



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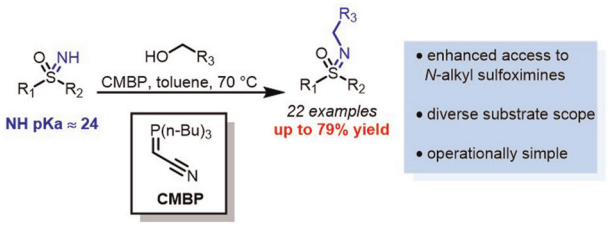

Alkylation of *N*H-sulfoximines under Mitsunobu-type conditions

Cayden J. Dodd, Daniel C. Schultz, Jinming Li, Craig W. Lindsley and Aaron M. Bender*

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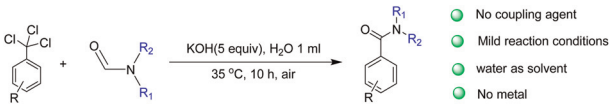

KOH-promoted cascade C–Cl bond activation and amidation of trichloromethyl aromatic compounds with formamides in water

Chenyu Wang, Yan Wang, Jianglong Wu, Qian Hu, Hui Luo, Zhongjie Wang, Yingxin Wang, Dianjun Li,* Jun Liang* and Jinhui Yang*

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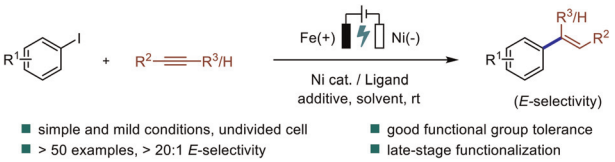

Highly stereoselective synthesis of *trans*-alkenes *via* electrochemical Ni-catalyzed hydroarylation of alkynes with aryl iodides

Haoxiang Zhang, Lin Guo, Chao Yang* and Wujiong Xia*

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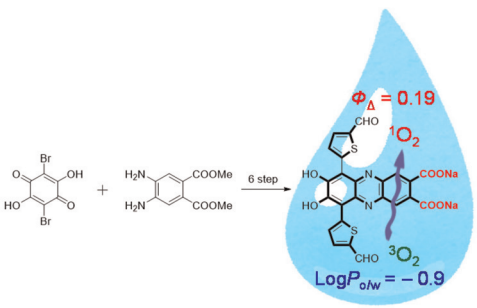

Development of water-soluble phenazine-2,3-diol-based photosensitizers for singlet oxygen generation

Kazunori Yagi, Kazuki Ohira, Keita Yamana, Keiichi Imato, Riku Kawasaki, Atsushi Ikeda and Yousuke Ooyama*

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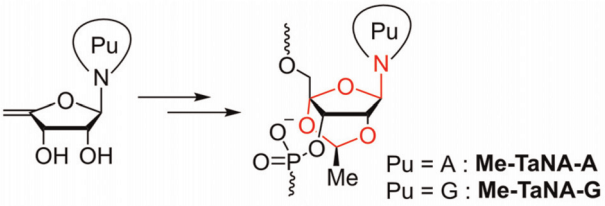
Synthesis of purine derivatives of Me-TaNA and properties of Me-TaNA-modified oligonucleotides

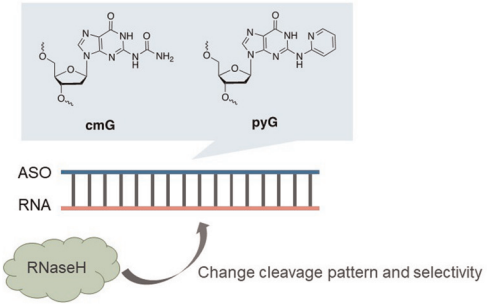
Yasufumi Fuchi, Kouki Watanabe, Misa Shoji, Yuta Ito and Yoshiyuki Hari*



5214

Alteration of target cleavage patterns and off-target reduction of antisense oligonucleotides incorporating 2-*N*-carbamoyl- or (2-pyridyl) guanine

Takayuki Kanagawa, Aya Koyoma, Yoshiaki Masaki* and Kohji Seio*



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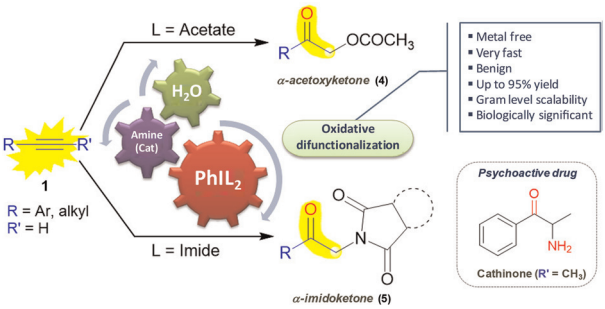
Water-based efficient alkyne transformation towards α-acetoxy/imido-ketones *via* oxidative coupling reactions using an alkylamine catalyst

Debasish Ghosh, Aniruddha Ganguly and Saikat Khamarui*



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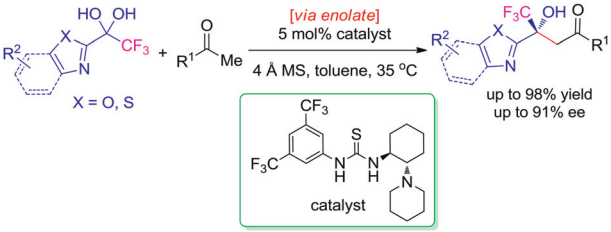
Organocatalytic enantioselective cross-aldol reaction of aryl ketones with heteroaromatic trifluoromethyl ketone hydrates for the synthesis of α-trifluoromethyl tertiary alcohols

Wei Wang, Zhaoliang Qin, Ze Tan* and Wen Yang*



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Synthesis of α-allenic aldehydes/ketones from homopropargylic alcohols using a visible-light irradiation system

Dong-Fang Jiang,* Xing-Xing Zeng, De-Feng Li, Si-Miaomiao Wen and Ming-Hua Hu*

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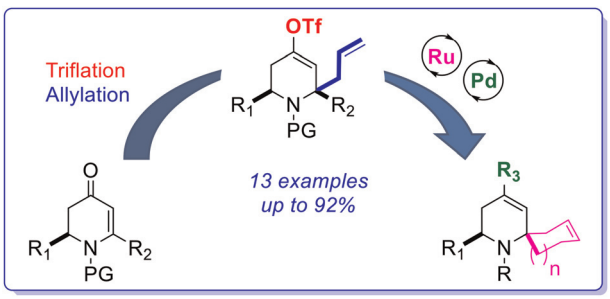

Accessing spiropiperidines from dihydropyridones through tandem triflation–allylation and ring-closing metathesis (RCM)

Naresh Gantasala, Corentin Fournet, Myriam Le Roch, Claudia Lalli,* Srihari Pabbaraja* and Nicolas Gouault*

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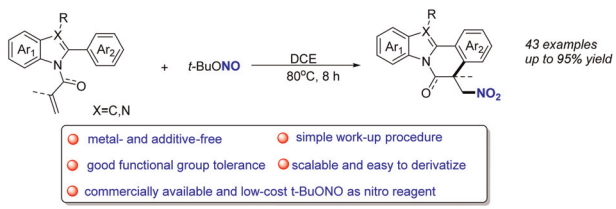

Metal- and additive-free radical-triggered nitration/cyclization to construct indolo[2,1-*α*]isoquinoline and benzimidazo[2,1-*a*]isoquinolin-6(5*H*)-one derivatives using *t*-BuONO as nitro reagents

Yucai Tang,* Yiting Yang, Qian Zhou, Jinglin Duan, Biyu Yang, Changyuan Du and Yupeng He

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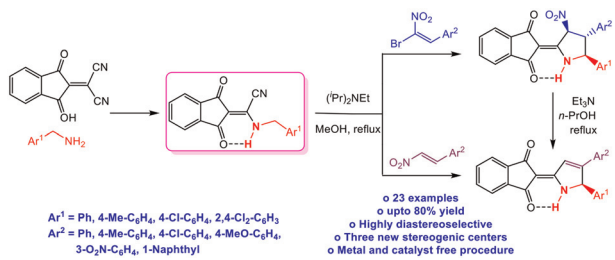

Synthesis of pyrrolidin-2-ylidenes and pyrrol-2-ylidenes *via* 1,3-dipolar cycloaddition of H-bond-assisted azomethine ylides to nitrostyrenes

Issa Yavari,* Ramin Mohsenzadeh, Parisa Ravaghi and Maryam Safaei

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PAPERS

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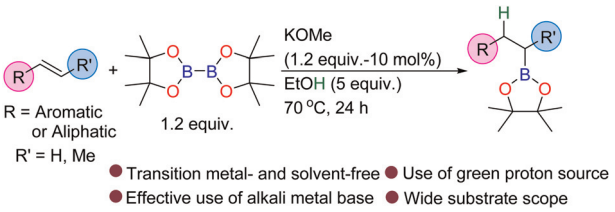
Transition metal- and solvent-free *anti*-Markovnikov selective protoboration of alkenes with bis(pinacolato)diboron

Suresh Saini, Ramesh Bhawar, Avinash Kumar Srivastava, Siri M, Kopal Garg and Shubhankar Kumar Bose*



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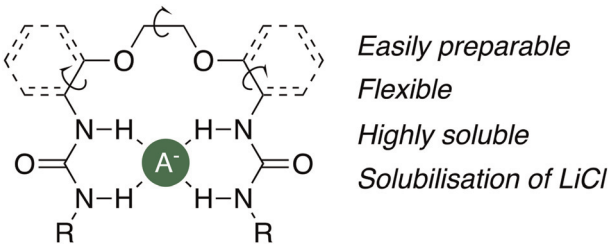
Highly soluble bisurea derivatives for anion recognition

Tsubasa Mimuro, Akihiro Yoshida, Kazuyuki Kamo, Manabu Hirasawa and Shin-ichi Kondo*



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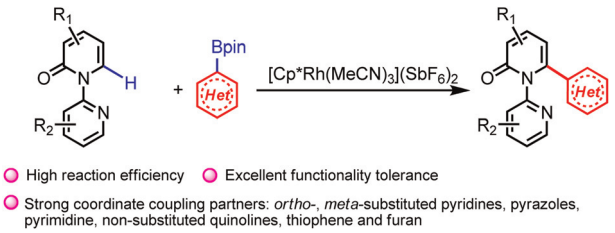
Rh^{III}-promoted directed C–H N-heteroarylation of 2-pyridones

Rong Chi, Jia-Xue Wu, Da-Cheng Li, Jian-Min Dou and Huai-Wei Wang*



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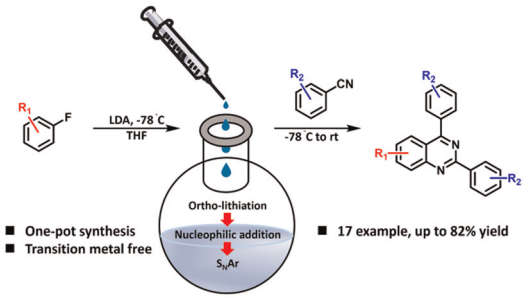
***ortho*-Lithiation driven one-pot synthesis of quinazolines *via* [2 + 2 + 2] cascade annulation of halofluorobenzenes with nitriles**

Jen-Chun Hsueh, Fu-En Szu, Yin-Yin Yu and Man-kit Leung*