

Organic & Biomolecular Chemistry

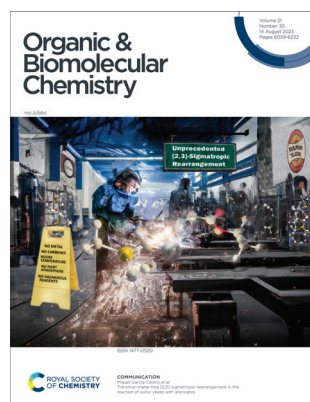
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Miguel García-Castro et al., pp. 6096–6102.

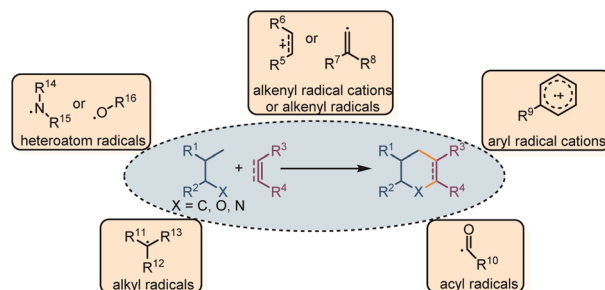
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REVIEWS

6068

Recent advances in radical-mediated intermolecular (4 + 2) cycloaddition

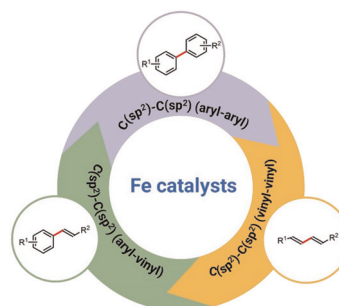
Xue-Er Cai, Zi-Ying Wang, Wen-Chan Tian, Hongxin Liu,* Wen-Ting Wei and Ke-Wei Lei*



6083

Recent advances in iron-catalysed coupling reactions for the construction of the C(sp²)–C(sp²) bond

Peng Chen,* Hao-Nan Chen, Henry N. C. Wong* and Xiao-Shui Peng*



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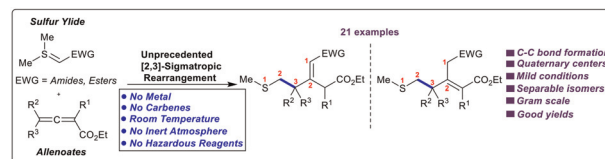


COMMUNICATIONS

6096

Transition metal-free [2,3]-sigmatropic rearrangement in the reaction of sulfur ylides with allenates

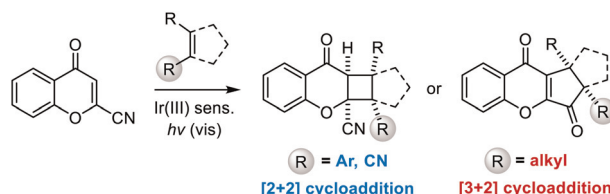
Miguel García-Castro,* Federico Moya-Utrera and Francisco Sarabia



6103

Visible light-induced iridium(III)-sensitized [2 + 2] and [3 + 2] photocycloadditions of 2-cyanochromone with alkenes

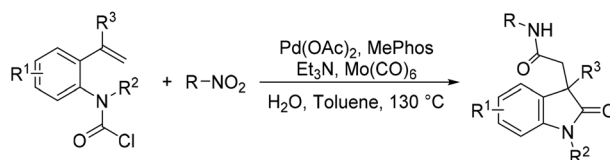
Rajesh Dasi, Alexander Villinger and Malte Brasholz*



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Palladium-catalyzed Heck/aminocarbonylation of alkene-tethered carbamoyl chlorides with nitro compounds for the synthesis of carbamoyl-substituted oxindoles

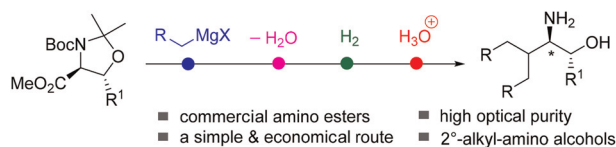
Xing-Feng Pan, Xuanzhang Bao, Ren-Rui Xu, Xinxin Qi* and Xiao-Feng Wu*



6111

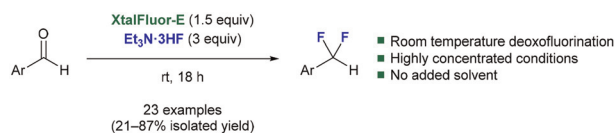
Expedition preparation of β -sec-alkyl vicinal amino alcohols used for chiral ligand synthesis

Guoqi Huang, Yu Wu, Hegui Gong* and Yunrong Chen*



COMMUNICATIONS

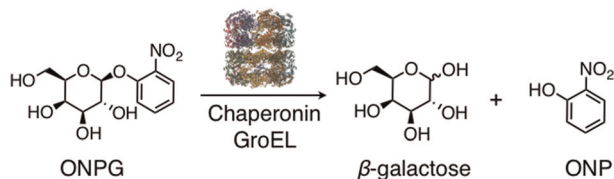
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Room temperature deoxofluorination of aromatic aldehydes with XtalFluor-E under highly concentrated conditions

Olivier Thibeault, Marie-Rose Ouellet-Du Berger, Marie Gonay and Jean-François Paquin*

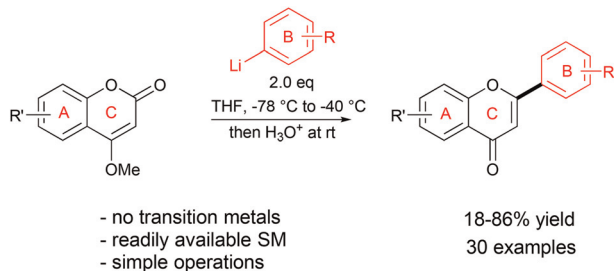
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Chaperonin GroEL hydrolyses *ortho*-nitrophenyl β-galactoside

P. K. Hashim,* Hisham M. Dokainish and Nobuyuki Tamaoki

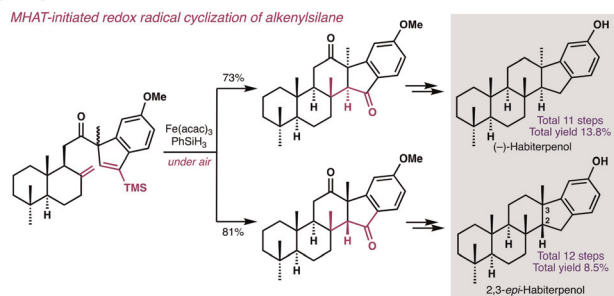
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Synthesis of flavones *via* the Stork–Danheiser reaction

Jianfeng Li,* Ankun Zhou, Wenping Zhang, Xiaoting Wang and Ning Li*

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Concise syntheses of (–)-habiterpenol and (+)-2,3-*epi*-habiterpenol *via* redox radical cyclization of alkenylsilane

Haruki Taguchi, Mayuko Kawaguchi, Tohru Nagamitsu* and Masaki Ohtawa*

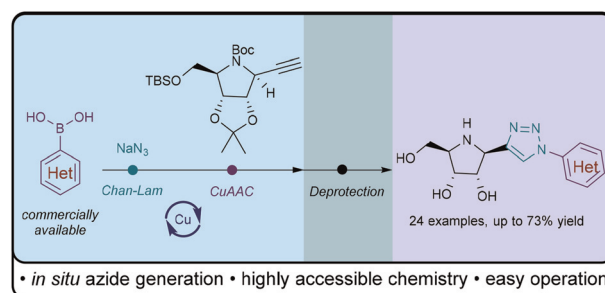


PAPERS

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Expedient synthesis of imino-C-nucleoside fleximers featuring a one-pot procedure to prepare aryl triazoles

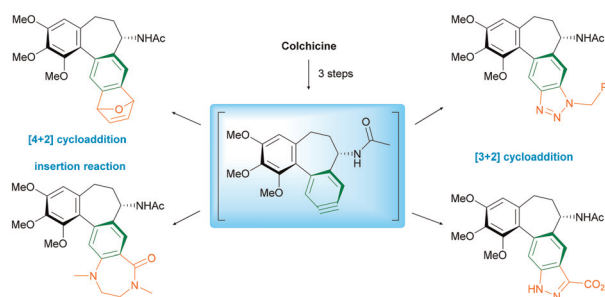
C. H. Andy Wong, Jonathan G. Hubert, Kevin J. Sparrow, Lawrence D. Harris, Peter C. Tyler and Margaret A. Brimble*



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Design of an aryne-platform for the synthesis of non-racemic heterocyclic allocolchicinoids

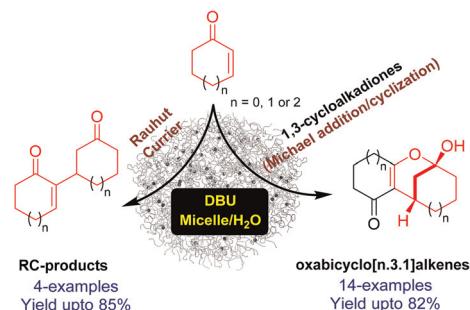
Iuliia A. Gracheva, Hans-Günther Schmalz, Elena V. Svirshchevskaya, Ekaterina S. Shchegravina and Alexey Yu. Fedorov*



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A micelle-mediated approach enables facile access to bridged oxabicyclo[*n*.3.1]alkene scaffolds

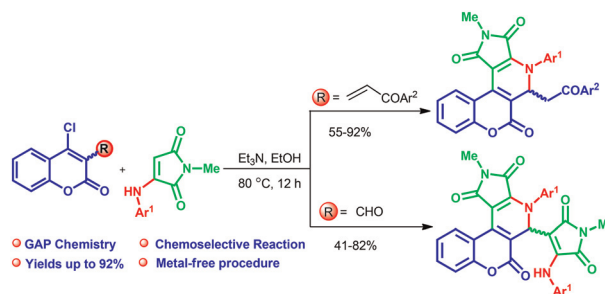
Mohmad Muzafar Wani, Auqib Rashid and Bilal A. Bhat*



6160

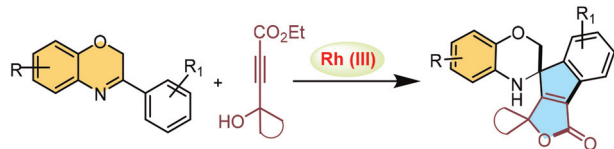
Base-promoted synthesis of dihydrochromeno[4,3-*d*]pyrrolo[3,4-*b*]pyridines from 4-chloro-3-substituted coumarins and α -aminomaleimides

Abdolali Alizadeh* and Azar Rostampoor



PAPERS

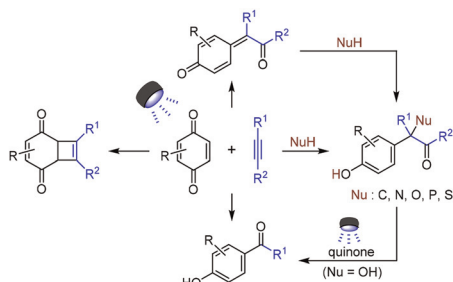
6169



Rh(III)-catalyzed [3 + 2] spiroannulation of 2,3-dihydro-1,4-benzoxazines with 4-hydroxy-2-alkynoates through *ortho*-C–H bond functionalization

Kommu Nagesh, Jagadish Manda, B. Sridhar and B. V. Subba Reddy*

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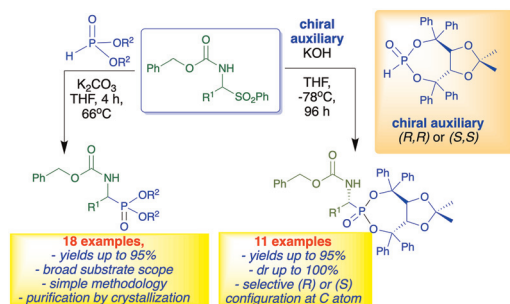


• accessible starting materials • no additional reagents required • revised chemo- and regioselectivity

Catalytic vs. uncatalyzed [2 + 2] photocycloadditions of quinones with alkynes

Alexander A. Fadeev and Martin Kotora*

6180



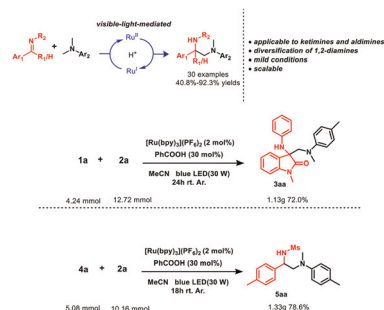
18 examples,
- yields up to 95%
- broad substrate scope
- simple methodology
- purification by crystallization

11 examples
- yields up to 95%
- dr up to 100%
- selective (*R*) or (*S*)
configuration at C atom

α -Amido sulphones as useful intermediates in the preparation of C-chiral α -aminophosphonates and α -aminophosphonic acids

Joseph D. Gbubele, Tomasz Misiaszek, Miłosz Siczek and Tomasz K. Olszewski*

6192



Visible-light-mediated α -amino alkylation of ketimines and aldimines for the synthesis of 1,2-diamines

Yuru Mei, Tiexin Zhang, Xinyu Hao, Kun Jin, Rong Zhang, Chunying Duan and Yaming Li*

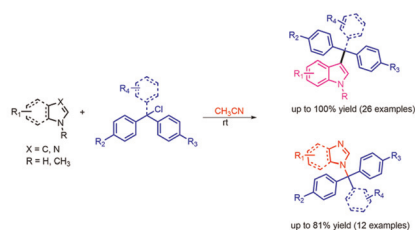


PAPERS

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Halogen bonding assisted site-selective C-3 triaryl methylation of indoles and *N*-triaryl methylation of imidazoles

Dipika Konwar, Pranamika Sarma, Jagat Chandra Borah and Utpal Bora*

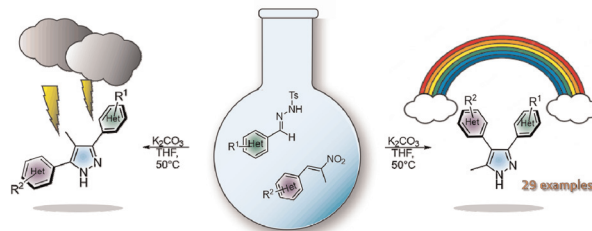


- C-Cl bond breaking through halogen bonding
- Catalyst-free triaryl methylation
- Mild reaction conditions
- Broad substrate scope

6205

A regioselective synthesis of 3,4-diaryl-1*H*-pyrazoles through a 1,3-dipolar cycloaddition of tosylhydrazones and nitroalkenes

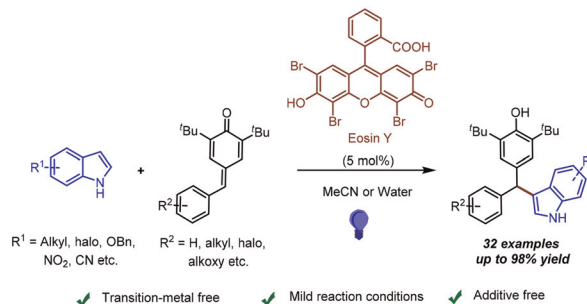
Carlos D. García-Mejía, Eduardo Hernández-Vázquez,* Javier Alejandro Ibarra-Hernández, Atl Tarbuck-Valle and María T. Ramírez-Apán



6218

Visible-light-mediated radical reactions of indoles with *para*-quinone methides using eosin Y as an organophotoredox catalyst

Rekha, Sonam Sharma and Ramasamy Vijaya Anand*

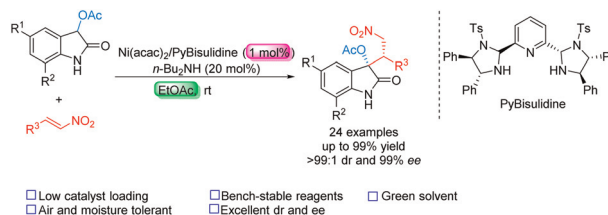


- ✓ Transition-metal free
- ✓ Mild reaction conditions
- ✓ Additive free

6225

High diastereo- and enantioselective Michael addition of 3-acetoxy-2-oxindoles with nitroalkenes catalyzed by nickel/PyBisulidine

Ruoran Wu, Peng Chen, Yu Chai, Junyu Zhou, Jianhua Ou, Yan Min, Haoting Wang, Guojuan Liang, Dong Zhang, Jing Zhou and Hui Zhou*



- Low catalyst loading
- Bench-stable reagents
- Green solvent
- Air and moisture tolerant
- Excellent dr and ee

