

Organic & Biomolecular Chemistry

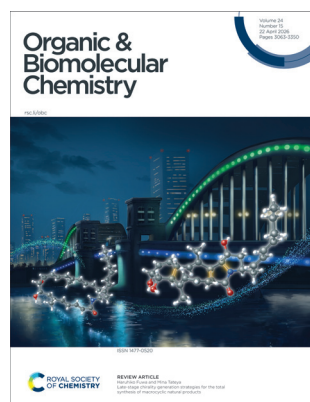
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Haruhiko Fuwa and Mina Tateya, pp. 3073–3118.

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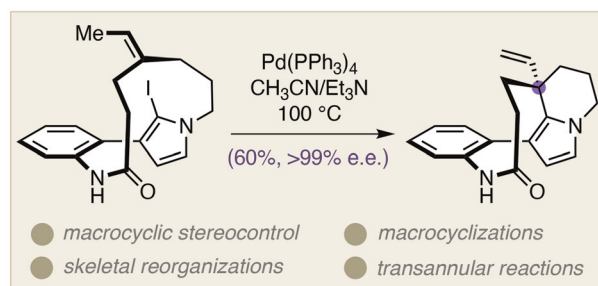
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REVIEWS

3073

Late-stage chirality generation strategies for the total synthesis of macrocyclic natural products

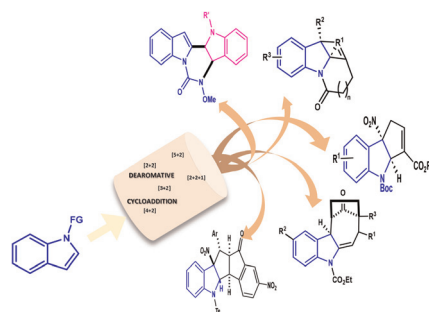
Haruhiko Fuwa* and Mina Tateya



3119

Dearomative cycloaddition: current trends in polycyclic indoline synthesis

Aditi Singh, Prashasti Kalhans, Vikas Tyagi* and Shashi Pandey*



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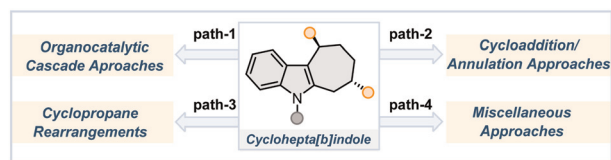
Fundamental questions
Elemental answers

REVIEWS

3180

Recent developments in asymmetric synthesis of cyclohepta[b]indole derivatives

Reena Jangir, Jyothi Yadav, Eldhose Iype, Sravendra Rana and Indresh Kumar*

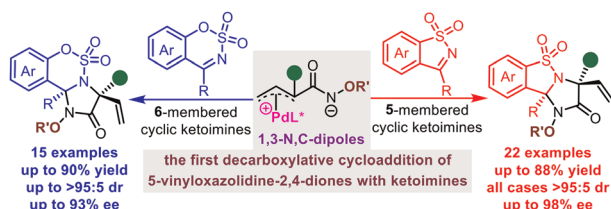


COMMUNICATIONS

3192

Palladium-catalyzed enantioselective decarboxylative [3 + 2] cycloaddition of 5-vinylloxazolidine-2,4-diones with sterically encumbered ketoimines toward chiral polycyclic 1,4-imidazolidinones

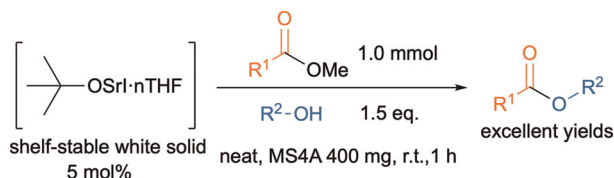
Juan Liao, Wei Sun, Guo-Yin Sun, Xue-Song Peng, Lei Yang, Yong You, Zhen-Hua Wang, Jian-Qiang Zhao,* Ming-Qiang Zhou* and Wei-Cheng Yuan*



3198

Development of a convenient and useful transesterification reaction using a catalytic amount of strontium alkoxide

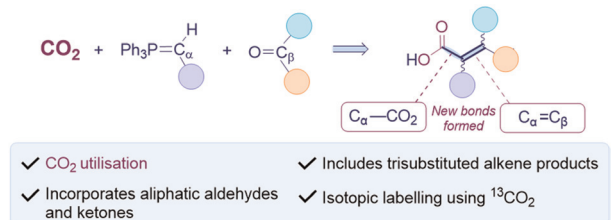
Chisato Kamada, Ryosuke Shimoda, Masaharu Ueno* and Norikazu Miyoshi*



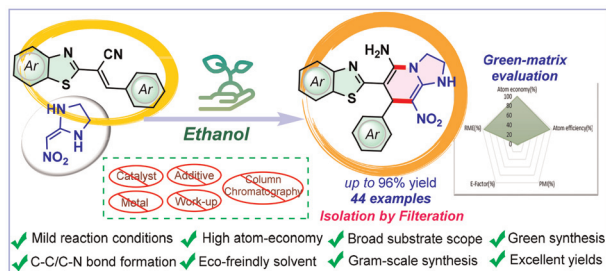
3203

Synthesis of tri-substituted, aliphatic and ¹³C-labelled α,β-unsaturated carboxylic acids via Wittig CO₂ utilisation reactions

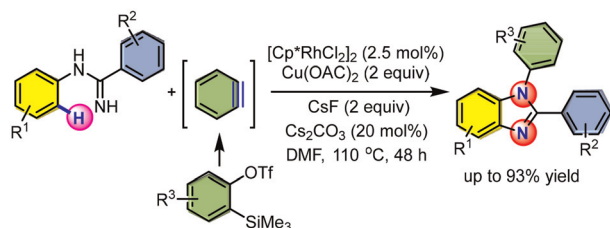
Rachel E. Lynch, Amy Lowry, Gerard P. McGlacken and Peter A. Byrne*



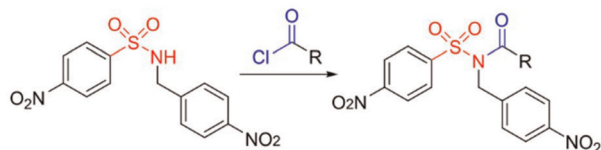
3210



3218

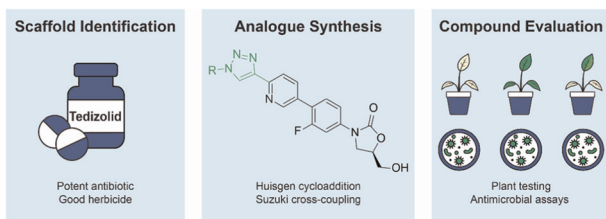


3223



- Streamlined synthesis
- Widened substrate scope

3227



Investigating tedizolid analogues as a new class of herbicides

Caleb Hewlett, Aleksandra W. Debowski, Karen J. Deane* and Keith A. Stubbs*

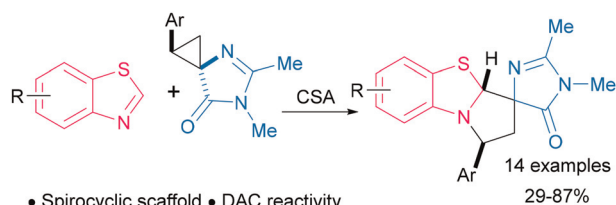


COMMUNICATIONS

3232

Cycloaddition of benzo[d]thiazoles with imidazol-4-one-activated donor–acceptor cyclopropanes: synthesis of spirocyclic inhibitors of HIV-1

Viktoria A. Ikonnikova, Olga E. Shchigal, Andrey N. Anisenko, Pavel N. Solyev, Grigory A. Krylkov, Alexander R. Romanenko, Alexander A. Korlyukov, Mikhail S. Baranov, Marina B. Gottikh and Andrey A. Mikhaylov*

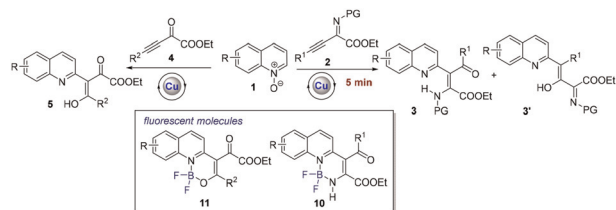


- Spirocyclic scaffold • DAC reactivity
- Inhibition of the early stages of HIV-1 replication • EC₅₀ up to 15 μM

3239

Efficient synthesis of quinoline–enone esters via copper-catalyzed coupling with electron-deficient alkynes and exploration of fluorescence in difluoroboron complexes

Xiaojiao Wang, Xin Cao, Zhenjiang Li, Jialin Qi* and Shuwen Gong*

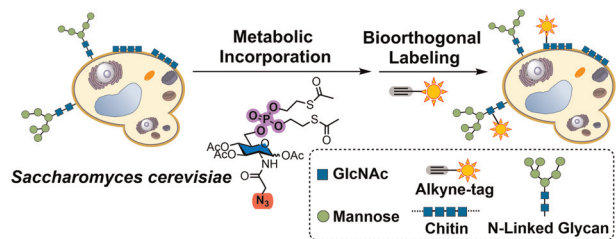


PAPERS

3244

Metabolic labeling and imaging of native *Saccharomyces cerevisiae* glycan by using *N*-acetylglucosamine-6-phosphate analogs

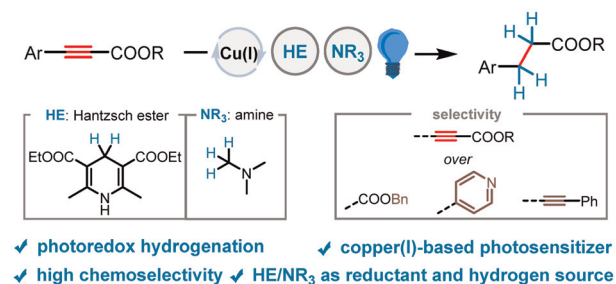
Nianci Li, Jiabin Feng, Shuhui Ji, Bin Fu, Hui Zhang, Tianyou Jiao, Qichan Yi, Nicholas Gong, Yimei Guo, Huijuan Ji, Yishu Yan, Pan Zhu,* Jialin Liu* and Yuntao Zhu*



3254

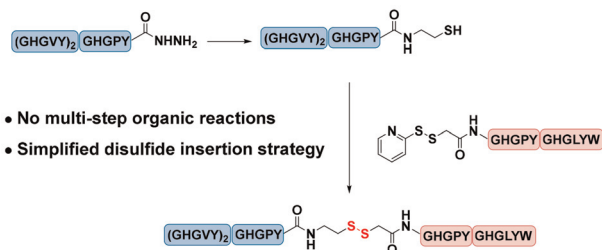
Chemoselective transfer hydrogenation of alkyneates enabled by Cu(I)-photosensitizer catalysis

Kun Zhang, Ziwen Huang, Yin Xu* and Yunkui Liu*



PAPERS

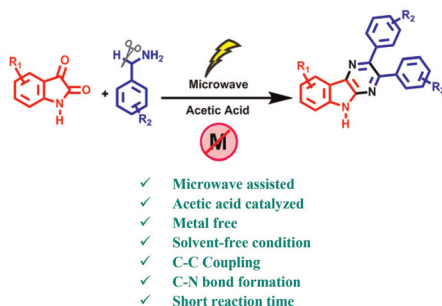
3260



Facile synthesis of redox-responsive peptide coacervates for cytosolic protein delivery

Xiaona Han, Ruihui Han, Jiabin Yang, Xiao Hua* and Yi-Ming Li*

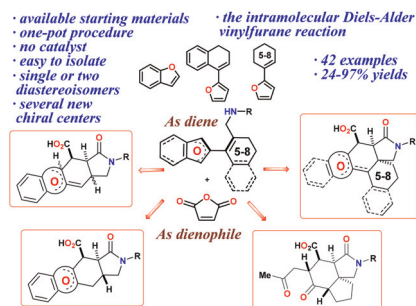
3266



Microwave-assisted, acetic acid-catalyzed, metal-free synthesis of 5H-pyrazino[2,3-b]indoles via sequential C–C and C–N bond formation

Tiyasa Dhar, Debasish Bera, Supriyo Halder and Chhanda Mukhopadhyay*

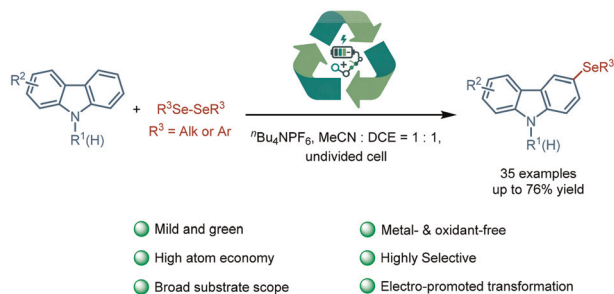
3274



Application of the intramolecular Diels–Alder vinylarene (IMDAV) reaction for the synthesis of benzo- and carbocyclofuroisindole carboxylic acids and its limitations

Elizaveta D. Yakovleva, Evgeniya R. Shelukho, Pavel P. Erokhin, Valentina V. Ilyushenkova, Aleksandra S. Guryeva, Nikita A. Logvinenko, Victor N. Khrustalev, Mikhail S. Grigoriev, Fedor I. Zubkov and Vladimir P. Zaytsev*

3287



Electrochemical direct site-selective selenation of carbazoles

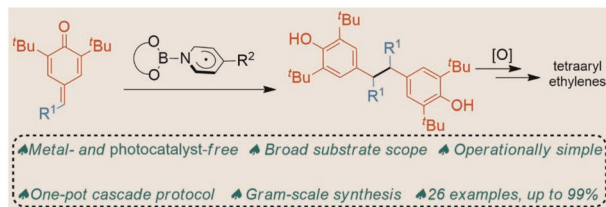
Haodong Ma, Wei Xu, Haomin Chen, Bin Wang, Ziren Chen, Yu Xia, Shaofeng Wu, Weiwei Jin, Chenjiang Liu* and Yonghong Zhang*



3295

Pyridine-boryl radical-mediated reductive homocoupling of *para*-quinone methides

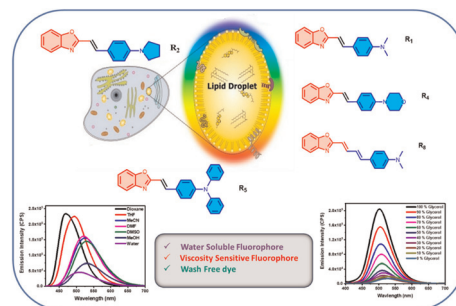
Yan-Zhao Cui, He Li, Huiyi Liu, Hao-Qi Yuan, Hao-Tian Zhou, Xiao-Sai Wang and Yan-Bo Wang*



3301

Viscosity-responsive styryl benzoxazole probes for lipid droplet visualization

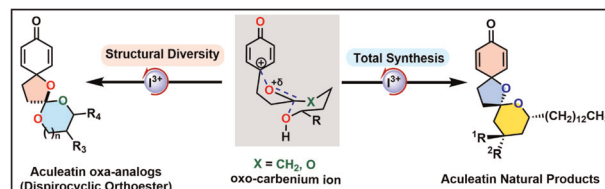
Vijay Sai Krishna Cheerala, Simran, Prateek Sarkar, Deeksha Rajput and Sriram Kanvah*



3309

Design and synthesis of aculeatin oxo-analogues and aculeatin natural products enabled by oxo-carbenium ion cyclization

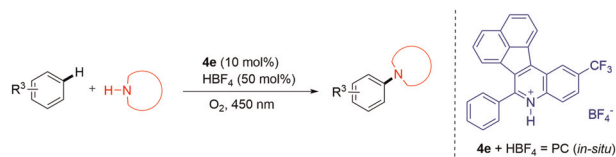
Manoj Kumar, Shubham Singh and Parthasarathi Subramanian*



3318

Photocatalytic C–H amination of electron-rich arenes by novel fused quinoline-based photocatalysts

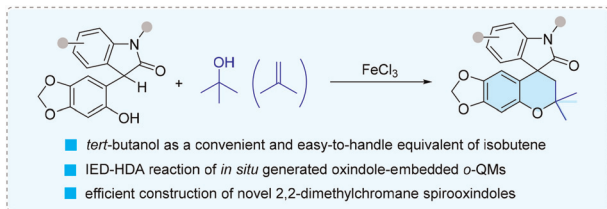
Qian Shu, Dinghao Li, Siyu Zheng, Xue-Lian Lu, Bing Sun* and Fang-Lin Zhang*



- Novel fused quinoline-based photocatalyst & Povarov reaction & In one-pot
- The *in-situ* protonated 4e exhibits E*red = 2.31 V vs SCE



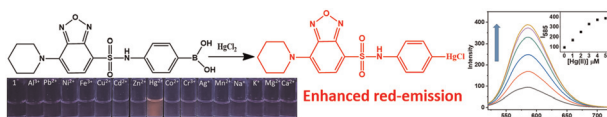
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tert-Butanol as an isobutene equivalent in the IED-HDA reaction of *in situ*-generated oxindole-embedded *o*-QMs

Jia-Cheng Ge, Xiangyun Kong, Yao-Bin Shen, Fangzhi Hu, Li-Jun Peng* and Shuai-Shuai Li*

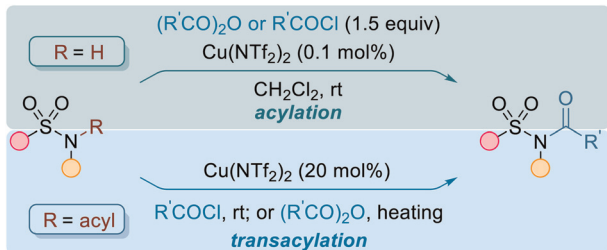
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Ultrafast fluorescent detection of mercury(II) ions in aqueous and biological systems using a boronic acid-based reaction probe

Kishor Khadka, Sumita Subedi, Eun-Taex Oh and Keun-Hyeung Lee*

3340



Metal triflimide-mediated acylation of sulfonamides and transacylation of *N*-acylsulfonamides

Shimin Yang, Ying Peng, Shujie Li, Juan Tian* and Dayong Sang*

