

Organic & Biomolecular Chemistry

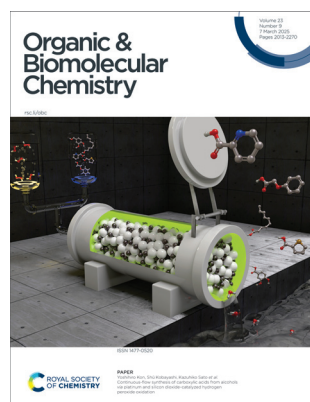
An international journal of synthetic, physical and biomolecular organic chemistry

rsc.li/obc

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 23(9) 2013–2270 (2025)



Cover

See Yoshihiro Kon,
Shū Kobayashi, Kazuhiko Sato
et al., pp. 2125–2132.

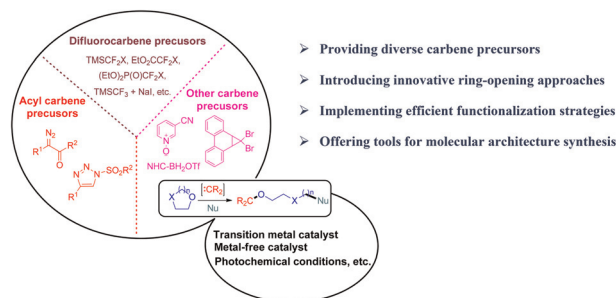
Image reproduced by
permission of
National Institute of
Advanced Industrial Science
and Technology (AIST) and
Yoshihiro Kon from
Org. Biomol. Chem.,
2025, **23**, 2125.

REVIEWS

2024

Carbene-induced ring-opening reactions of five-/six-membered cyclic ethers: expanding the frontiers of functional group introduction and molecular architecture construction

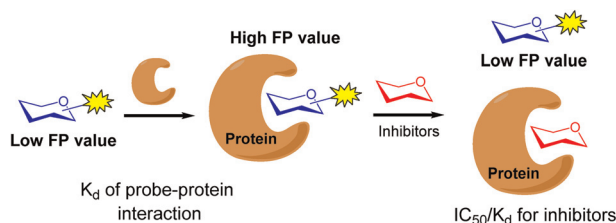
Jun Xiao, Dandan Jiang, Xiujuan Wu, Juanhua Li,
Kunming Liu,* Bin Huang* and Wei Wang*



2041

Fluorescence polarization assays to study carbohydrate–protein interactions

José L. de Paz* and Pedro M. Nieto*



GOLD
OPEN
ACCESS

RSC Applied Polymers

**The application of polymers,
both natural and synthetic**

Interdisciplinary and open access

rsc.li/RSCApplPolym

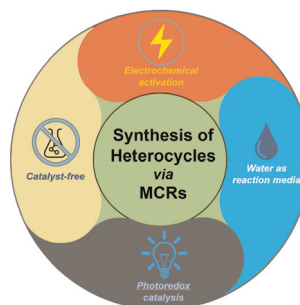
**Fundamental questions
Elemental answers**

REVIEWS

2059

Recent advances in green multi-component reactions for heterocyclic compound construction

Xinling Shen, Gang Hong and Limin Wang*

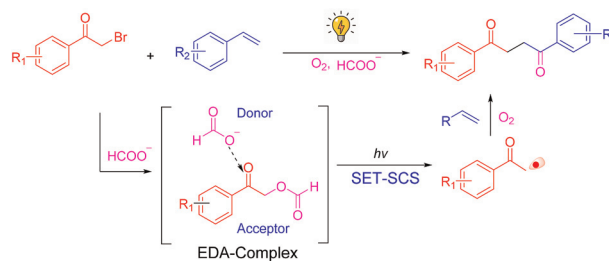


COMMUNICATIONS

2079

Photocatalyst-free formate-mediated C–O cleavage by the EDA complex and SCS strategy for the synthesis of diaryl 1,4-diketone in air

Molai Zhao, Yutong Liu, Xueqin Chen, Min Peng, Yawen Wang, Xiangwei Liu, Hezhong Jiang, Rui Tan* and Jiahong Li*

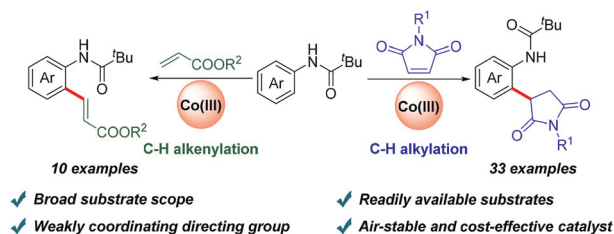


• Metal-free • Photocatalyst free • Visible light • Air as oxidant

2086

Cp*Co(III)-catalyzed *ortho*-alkylation/alkenylation of anilides

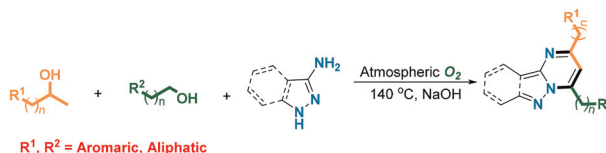
Yongqi Yu,* Jiajia Yu, Yanqi Li, Mengdan You, Rantao Huang, Weiguang Kong, Ming Chen, Jinjin Bai, Wenguang Li* and Ting Li*



2092

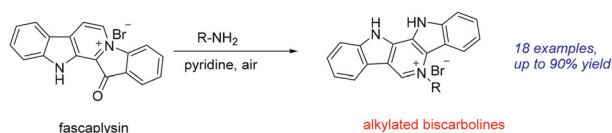
Atmospheric oxygen mediated oxidation coupling of primary and secondary alcohols: synthesis of pyrazolo[1,5-a]pyrimidines

Xiaoshuang Guo, Peng Zhao, Chengjun Jiang, Yongmin Ma* and Maozhong Miao*



COMMUNICATIONS

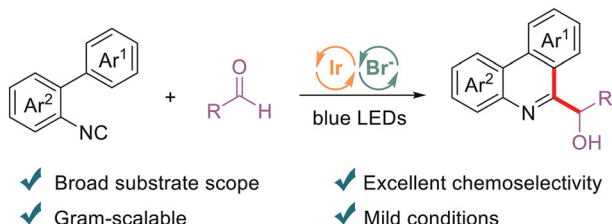
2096



Unexpected amine-triggered skeletal modification of fascaplysin and its derivatives: rapid access to δ,γ -biscarbolines

Zizhen Wang, Huanhuan Wang, Mei Xu, Liping Wang and Sheng Liu*

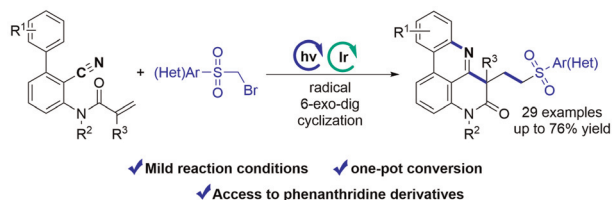
2101



Bromide-promoted cascade annulation of isocyanobiaryls with aldehydes through photoredox catalysis

Mengran Gan, Xiaoting Wu, Xiaochen Ji* and Huawen Huang*

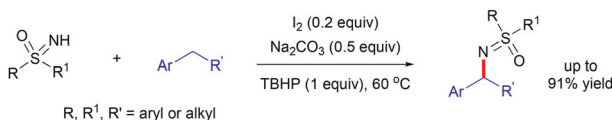
2106



Visible-light-promoted cascade cyclization of *N*-arylacrylamides with bromomethyl sulfone: access to sulfonylmethylated phenanthridines

Qiannan Tan, Xia Mi,* Jingyu Zhang and Chao Pi

2111



I₂-Catalyzed benzylation of NH-sulfoximines with diarylmethanes and alkylarenes

Yiyi Chen, Qisheng Chen, Shuangquan Zhang, Kun Feng, Xianqiang Kong,* Xiaohui Chen,* Wenjuan Li* and Zhong-Yan Cao*

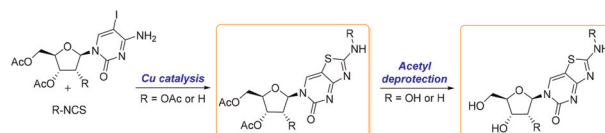


COMMUNICATIONS

2115

Bicyclic nucleoside analogues: synthesis of thiazolopyrimidine-based nucleosides *via* a copper-catalysed tandem reaction of 5-iodocytidine with isothiocyanates

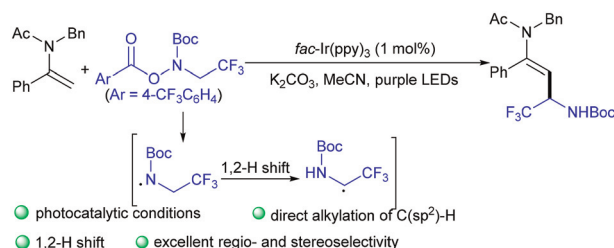
Anjana Jyothilekshmi, Reshma Elizabeth Lukose, Angel Johny, Uthara Kaloore, Megha Nellyadan, Sheba Ann Babu* and Jubi John*



2120

Photocatalytic stereoselective synthesis of amido-substituted (*E*)- α -trifluoromethyl allyl amines *via* Heck-type alkylation

Lingli Liu, Yangian Cheng, Changduo Pan* and Jin-Tao Yu*

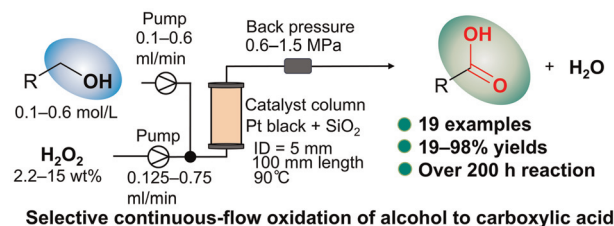


PAPERS

2125

Continuous-flow synthesis of carboxylic acids from alcohols *via* platinum and silicon dioxide-catalyzed hydrogen peroxide oxidation

Yoshihiro Kon,* Takuya Nakashima, Yoshiki Makino, Shun-ya Onozawa, Hiroyuki Miyamura, Shū Kobayashi* and Kazuhiko Sato*

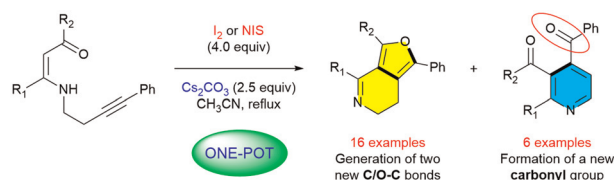


Selective continuous-flow oxidation of alcohol to carboxylic acid

2133

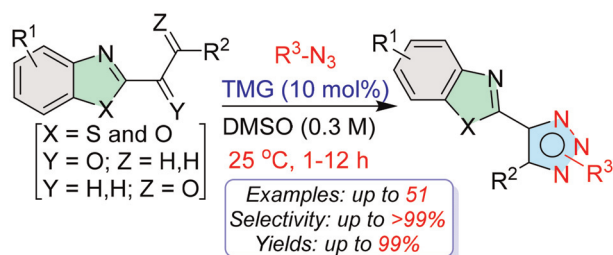
Facile synthesis of unknown 6,7-dihydrofuro[3,4-c]pyridines and 3,4-diaryloylpyridines from *N*-homopropargylic β -enaminones

Elif Serel Yilmaz, Kerem Kaya and Metin Zora*



PAPERS

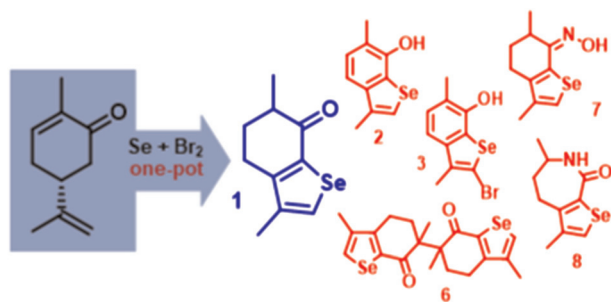
2142



Direct organocatalytic chemoselective synthesis of pharmaceutically active benzothiazole/benzoxazole-triazoles

Badaraita Gorachand, Pandhiti R. Lakshmi and Dhevalapally B. Ramachary*

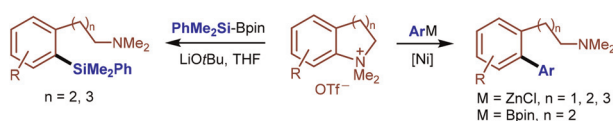
2153



Monoterpenoid selenophenes derived from (–)-carvone with GPx-like activity

João P. Telo,* Luis F. Veiros, Vânia André, João Ferreira da Silva, Gonçalo C. Justino and Alexandra M. M. Antunes

2162



Cross-coupling reaction of cyclic quaternary ammonium salts with arylzinc reagents, arylboron reagents, and silylboronates

Hong-Xia Jiang and Zhong-Xia Wang*

2172



Condensation of carboxylic acids with amines using the Boc₂O/DMAP system under solvent-free conditions

Mourad Boukachabia,* Mounia Merabet-Khelassi and Olivier Riant

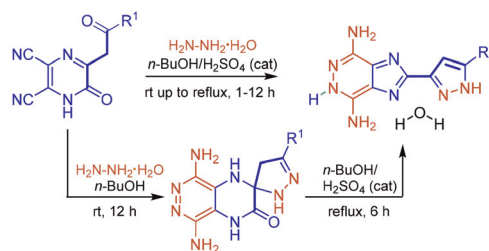


PAPERS

2180

ANRORC type rearrangement/intermolecular cyclocondensation cascade of 5,6-dicyano-3-(2-oxo-2-ethyl)pyrazin-2(1H)-ones with hydrazine hydrate for the synthesis of 2-(pyrazol-3-yl)imidazo[4,5-d]pyridazines

Vakhid A. Mamedov,* Venera R. Galimullina, Zheng-Wang Qu,* Hui Zhu, Victor V. Syakaev, Dariya V. Nikolaeva, Il'dar Kh. Rizvanov, Aidar T. Gubaidullin, Oleg G. Sinyashin and Stefan Grimme

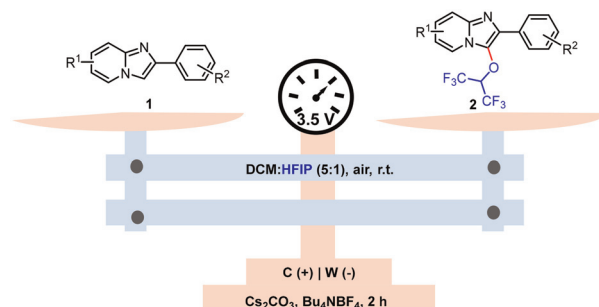


- ★ Readily accessible substrates ★ High efficiency and atom-economy
- ★ New rearrangement ★ Simultaneous formation of two ring systems
- ★ Mechanistic insights using DFT calculations

2190

An efficient direct electrolysis method for the synthesis of 1,1,1,3,3,3-hexafluoroisopropoxy substituted imidazo[1,2-a]pyridines

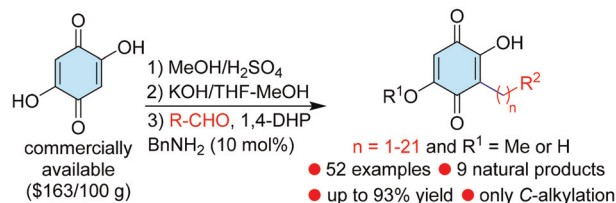
Yanyan Kong,* Ming Gong, Xuemei Xu, Yangjie Wu and Xingmao Jiang*



2195

High-yielding total synthesis of embelin, rapanone, and irisoquin A, D, F

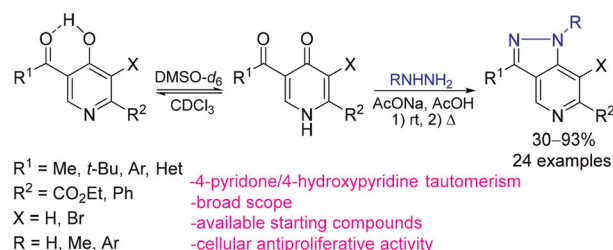
Etikala Ashok, Pandhiti R. Lakshmi, Shyam D. Sanwal and Dhevalapally B. Ramachary*



2206

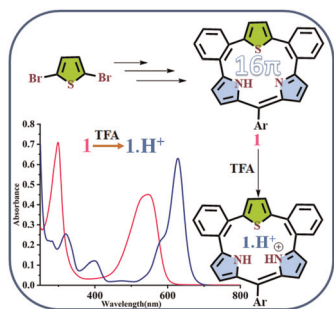
Regioselective synthesis of 5-azaindazoles based on the intramolecular amination reaction of 5-acyl-4-pyridones with hydrazines

Viktoria V. Viktorova, Dmitrii L. Obydenov,* Alsu F. Mustafina, Maria V. Ulitko, Mikhail Y. Kornev and Vyacheslav Y. Sosnovskikh



PAPERS

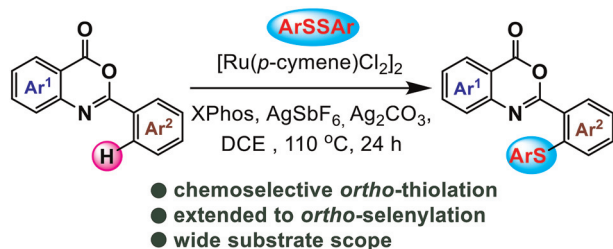
2221



Synthesis of nonaromatic [16]thiatriphyrin(2.2.1)s

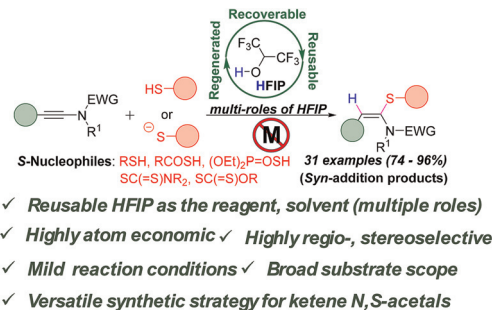
Shubham Tiwari and Mangalampalli Ravikanth*

2229

Disulfide-mediated ruthenium-catalyzed direct C–H thiolation in benzoxazinone systems: selective synthesis of *ortho*-thiolated 2-arylbenzoxazinones

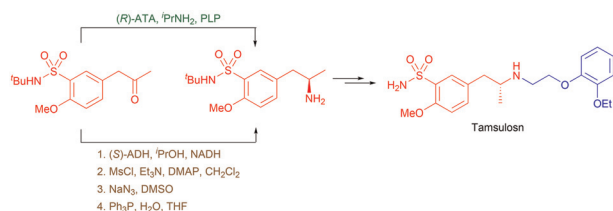
Debabrata Patra, Mohabul Alam Mondal and Amit Saha*

2235

HFIP-mediated, regio- and stereoselective hydrosulfenylation of ynamides: a versatile strategy for accessing ketene *N,S*-acetals

Appanapalli N. V. Satyanarayana, Paramita Pattanayak and Tanmay Chatterjee*

2244



Chemoenzymatic synthesis of Tamsulosin

Enol de Prado, Juan Mangas-Sánchez* and Vicente Gotor-Fernández*

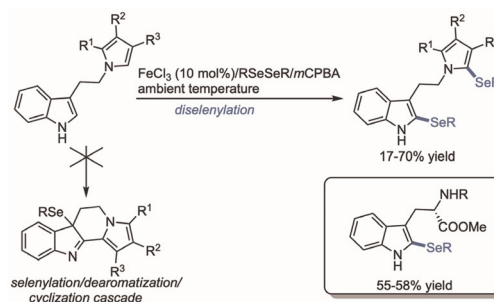


PAPERS

2254

FeCl₃-catalyzed oxidative diselenylation of pyrrole-tethered indoles

Jing Zhou, Xue Sheng, Man Jiang and Hai-Lei Cui*



2263

Stereoselective synthesis of 3-oxo-2-C-branched glycosides from 2,3-unsaturated sugars via [3,3]-sigmatropic rearrangement

Intzar Ali, Sravani Gundumalla and Ramu Sridhar Perali*

