Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Organic & Biomolecular Chemistry

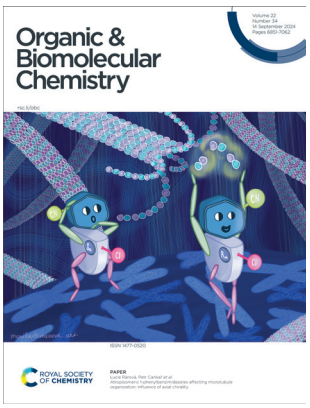
An international journal of synthetic, physical and biomolecular organic chemistry

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

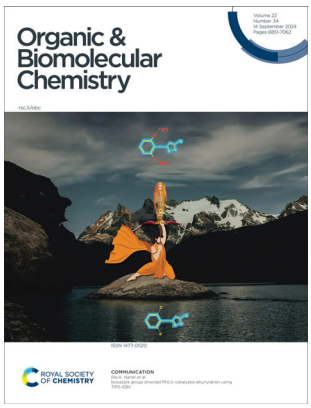
ISSN 1477-0520 CODEN OBCRAK 22(34) 6851–7062 (2024)



Cover
See Lucie Rárová, Petr Cankař *et al.*, pp. 6966–6980.

Cover image designed by Monika Tomanová.

Image reproduced by permission of Monika Tomanová from *Org. Biomol. Chem.*, 2024, **22**, 6966.



Inside cover
See Raj K. Nandi *et al.*, pp. 6922–6927.

Cover image designed by Mr Debojyoti Chaudhury and Miss Poushali Sarkar using dribbble.com.

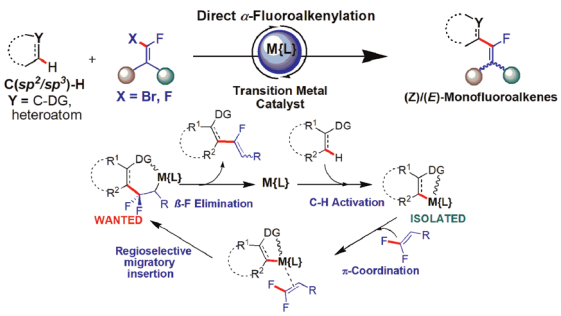
Image reproduced by permission of Debojyoti Chaudhury and Poushali Sarkar from *Org. Biomol. Chem.*, 2024, **22**, 6922.

REVIEWS

6860

Transition metal-catalyzed C(sp^2/sp^3)–H α-fluoroalkenylation from *gem*-(bromo/di)fluoro-alkenes to monofluoroalkenes: scope, mechanisms, and synthetic applications

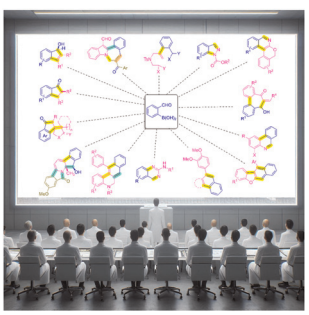
Essam M. Eliwa, Ahmed H. Bedair and Jean-Pierre Djukic*



6905

Transition metal-catalyzed transformations of 2-formylarylboronic acids

Fatemeh Doraghi, Amir Mohammad Taherkhani, Tolou Hosseinifar, Parviz Rashidi Ranjbar, Bagher Larijani and Mohammad Mahdavi*



View Article Online

ROYAL SOCIETY OF CHEMISTRY

60 YEARS ANNIVERSARY

ChemComm

Uncover new possibilities with outstanding preliminary research

Original discoveries, fuelling every step of scientific progress

rsc.li/chemcomm

Fundamental questions
Elemental answers

Registered charity number: 207890

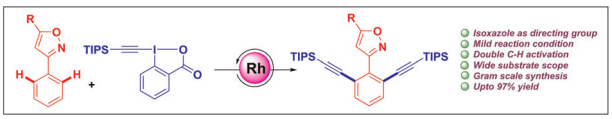
Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

COMMUNICATIONS

6922

Isoxazole group directed Rh(III)-catalyzed alkynylation using TIPS-EBX

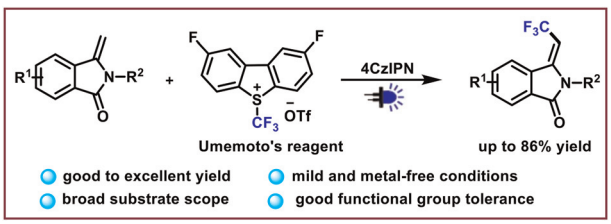
Sukanya Das, Tanmoy Datta, Md. Abbasuddin Sk, Brindaban Roy and Raj K. Nandi*



6928

Photoredox-catalyzed C(sp^2)–H trifluoromethylation of 3-methylene-isoindolin-1-ones under metal-free conditions

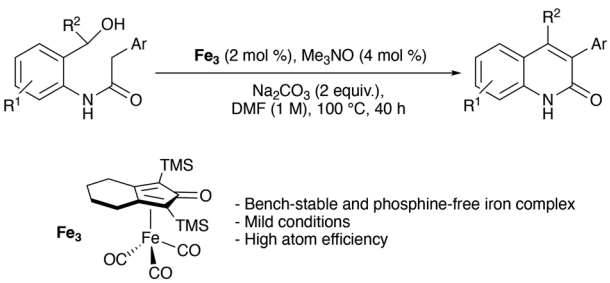
Yuan-Xia Zhou, Feng-Qian Liu, Guo-Qin Wang, Dan Yang,* Pan Han* and Lin-Hai Jing*



6933

Iron-catalyzed synthesis of substituted 3-arylquinolin-2(1*H*)-ones *via* an intramolecular dehydrogenative coupling of amido-alcohols

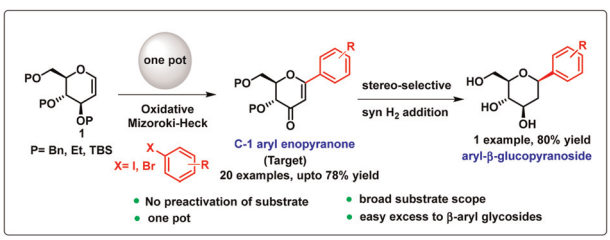
Léo Bettoni, Nicolas Joly, Inès Mendas, Matteo Maria Moscogiuri, Jean-François Lohier, Sylvain Gaillard, Albert Poater* and Jean-Luc Renaud*



6941

Synthesis of aryl enopyranones directly from glycals and aromatic halides to access 2-deoxy-β-C-aryl glycosides

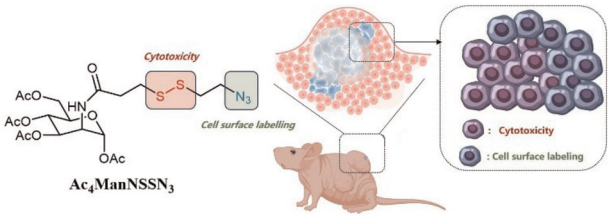
Irshad Ahmad Zargar, Bisma Rasool, S. K. Bappa and Debaraj Mukherjee*



Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

COMMUNICATIONS

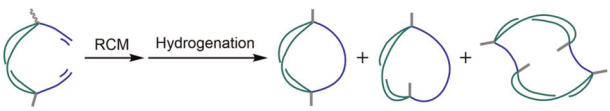
6946



A novel tumor theranostic strategy based on metabolic glycoengineering and disulfidptosis

Jie Li, Hao Chang, Pengzhe Zhang, Liyu Hou, Wei Li,* Yixin Zhang* and Zhiqi Lao*

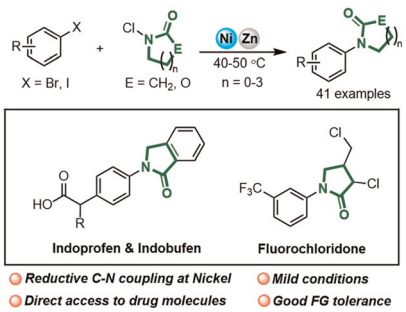
6950



Ring-closing metathesis of dialkenylcycloalkanes for the synthesis of fused bicycloalkanes and tricycloalkanes

Yuyang Tu, Yusuke Inagaki, Kazuaki Ohara, Kentaro Yamaguchi and Wataru Setaka*

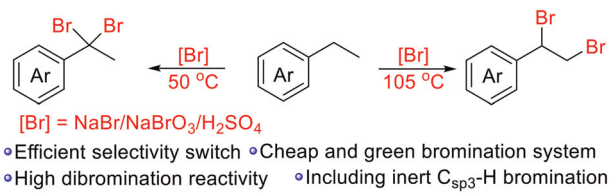
6955



Nickel-catalysed reductive C–N bond cross-coupling between aryl halides and *N*-chloroamides

Yiting Luo, Jiacan Yao, Yunzhi He, Chang Xu* and Dandan Liu*

6960



Selective 1,1- and 1,2-dibromination of phenylethanes in the presence of $NaBr/NaBrO_3/H_2SO_4$ as the bromination reagent

Haohao Jiang, Kaidi Jin, Xia Lin, Mengzhao Yu, Xiaohui Xiao* and Xiaolei Huang*

This journal is © The Royal Society of Chemistry 2024

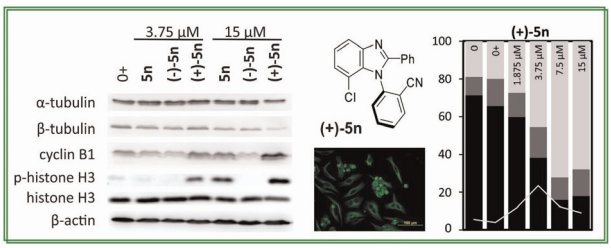
Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

6966

Atropisomeric 1-phenylbenzimidazoles affecting microtubule organization: influence of axial chirality

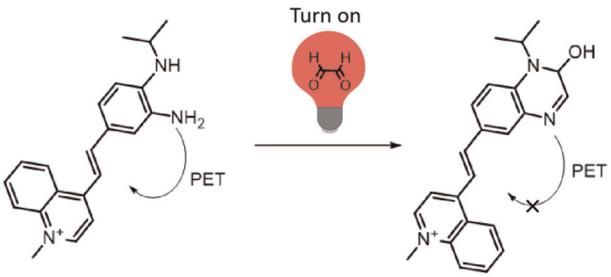
Jana Pospíšilová, Tomáš Heger, Ondřej Kurka, Marie Kvasnicová, Anna Chládková, Ivan Nemec, Lucie Rárová* and Petr Cankař*



6981

Selectively lighting up glyoxal in living cells using an *o*-phenylenediamine fused hemicyanine

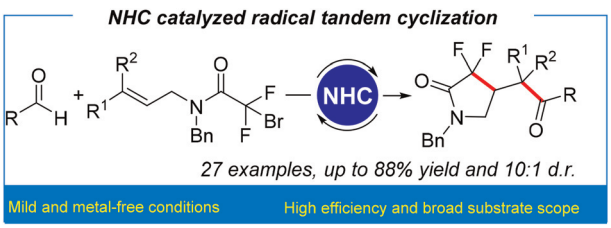
Zhiming Wang, Chang Liu,* Huirong Yao, Song He, Liancheng Zhao and Xianshun Zeng*



6988

NHC catalyzed radical tandem cyclization: an efficient synthesis of α,α-difluoro-γ-lactam derivatives

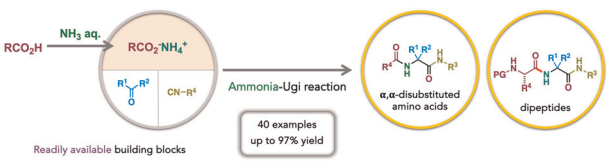
Tianjiao Huang, Huiping Yin, Tuanjie Li, Chenxia Yu, Kai Zhang* and Changsheng Yao*



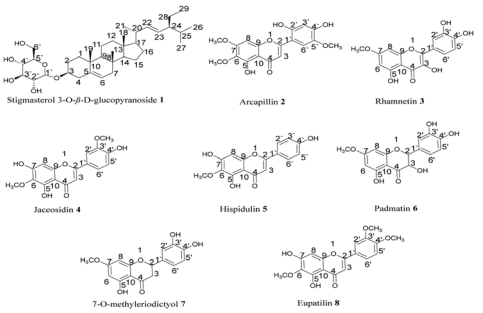
6999

Ammonium carboxylates in the ammonia-Ugi reaction: one-pot synthesis of α,α-disubstituted amino acid derivatives including unnatural dipeptides

Keisuke Tomohara,* Satoru Kusaba, Mana Masui, Tatsuya Uchida, Hisanori Nambu and Takeru Nose*



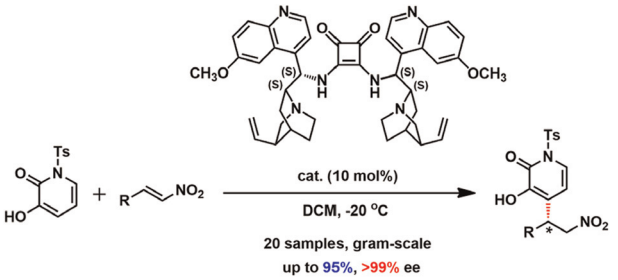
7006



Dual SARS-CoV-2 and MERS-CoV inhibitors from *Artemisia monosperma*: isolation, structure elucidation, molecular modelling studies, and *in vitro* activities

Ahmed M. Badawy, Marwa Samir M. Donia, Nehal G. Hamdy, Mayada M. El-Ayouty, Osama G. Mohamed, Khaled M. Darwish, Ashootosh Tripathi and Safwat A. Ahmed*

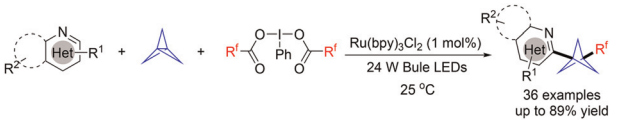
7017



Enantioselective Michael addition of 3-hydroxy-2-pyridone to nitroolefins using cinchona-derived bifunctional organocatalysts

Minseok Gi, Daehyun Oh, Sehun Yang, Jaeyong Lee, So Hyun Jung, Ju Ha Baek, Min Woo Ha, Geumwoo Lee* and Hyeung-geun Park*

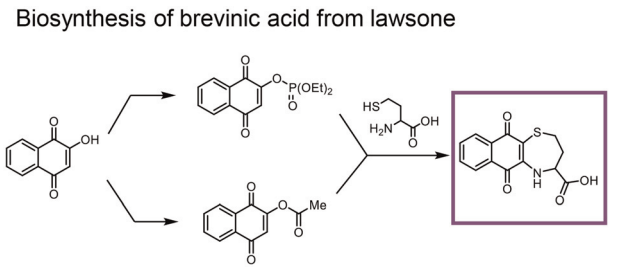
7024



Photochemical tandem reaction of nitrogen containing heterocycles, bicyclo[1.1.1]pentane, and difluoroiodane(III) reagents

Yaqing Zhu, Fengchao Yi, Ningning Zhou, Yi Zhang, Ying Zhang, Xia Zhao and Kui Lu*

7035



Biosynthesis of brevinic acid from lawsone

Maximilian Hohmann, Jonas F. Ohlrogge and Tobias A. M. Gulder*

Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

This journal is © The Royal Society of Chemistry 2024

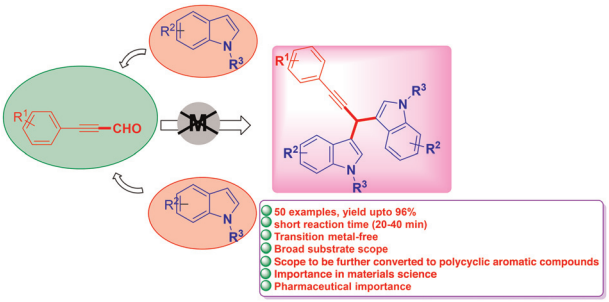
Open Access Article. Published on 28 August 2024. Downloaded on 12/6/2025 10:45:52 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

7039

Transition metal-free efficient synthesis of bis(indolyl)propynes (BIPs)

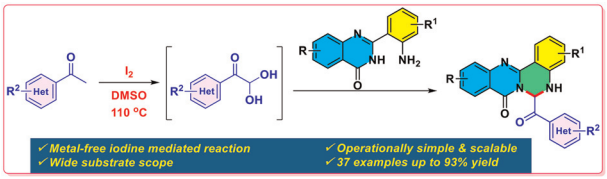
Anjali Chaturvedi, Vishal Sharma, Fathimath Nafla CM, Katikam SivaPrasad, Deepak Sharma, Nikhil Kumar, Rushal Chandel, Manpreet Singh, Ravindra K. Rawal* and Virender Singh*



7052

Iodine-promoted sequential C(sp^3)–H oxidation and cyclization of aryl methyl ketones with 2-(2-aminophenyl)quinazolin-4(3*H*)-ones

Mariyaraj Arockiaraj and Venkatachalam Rajeshkumar*



CORRECTION

7059

Correction: Atropisomeric 1-phenylbenzimidazoles affecting microtubule organization: influence of axial chirality

Jana Pospíšilová, Tomáš Heger, Ondřej Kurka, Marie Kvasnicová, Anna Chládková, Ivan Nemec, Lucie Rárová* and Petr Cankař*