

Organic & Biomolecular Chemistry

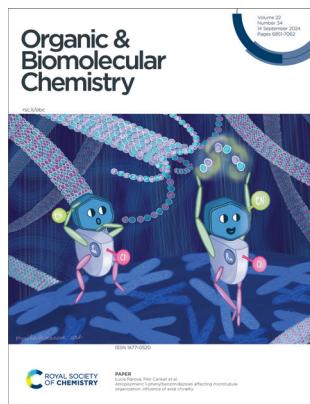
An international journal of synthetic, physical and biomolecular organic chemistry

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.

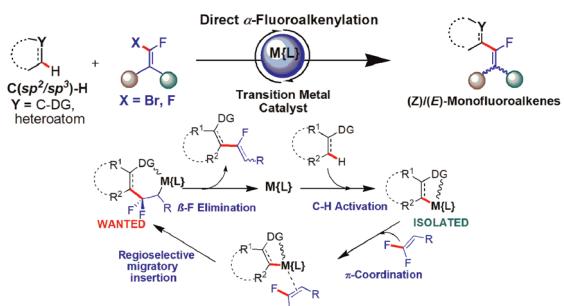
Image reproduced by permission of Debojyoti Chaudhury and Poushali Sarkar from *Org. Biomol. Chem.*, 2024, **22**, 6922.

REVIEWS

6860

Transition metal-catalyzed C(sp²/sp³)–H α -fluoroalkenylation from *gem*-(bromo/di)fluoro-alkenes to monofluoroalkenes: scope, mechanisms, and synthetic applications

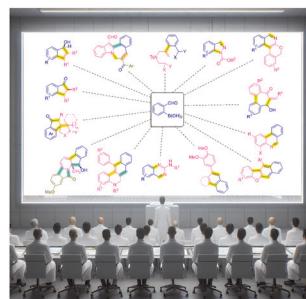
Essam M. Eliwa, Ahmed H. Bedair and Jean-Pierre Djukic*



6905

Transition metal-catalyzed transformations of 2-formylarylboronic acids

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



ChemComm

Uncover new possibilities
with outstanding
preliminary research

Original discoveries, fuelling
every step of scientific progress

rsc.li/chemcomm

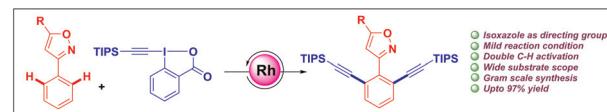
Fundamental questions
Elemental answers

COMMUNICATIONS

6922

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

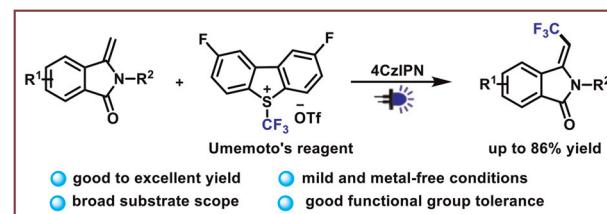
Sukanya Das, Tanmoy Datta, Md. Abbasuddin Sk, Brindaban Roy and Raj K. Nandi*



6928

Photoredox-catalyzed C(sp²)–H trifluoromethylation of 3-methylene-isoindolin-1-ones under metal-free conditions

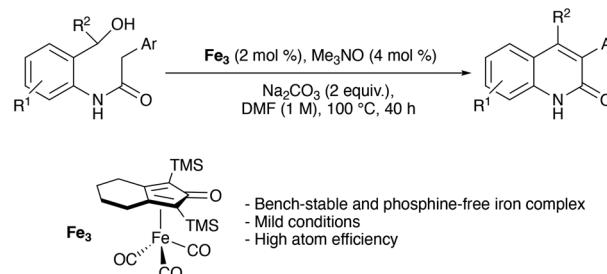
Yuan-Xia Zhou, Feng-Qian Liu, Guo-Qin Wang, Dan Yang,* Pan Han* and Lin-Hai Jing*



6933

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

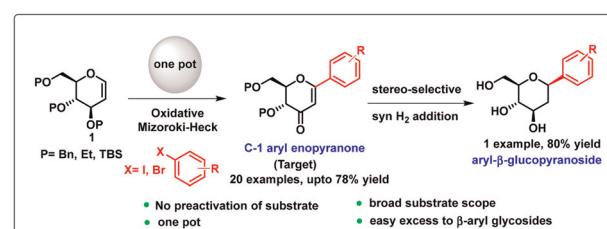
Léo Bettoni, Nicolas Joly, Inès Mendas, Matteo Maria Moscogiuri, Jean-François Lohier, Sylvain Gaillard, Albert Poater* and Jean-Luc Renaud*



6941

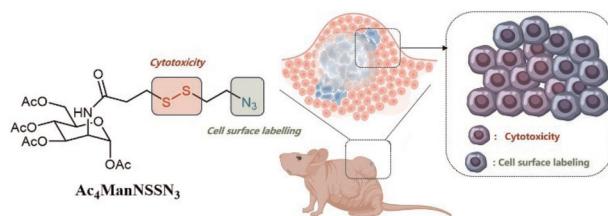
Synthesis of aryl enopyranones directly from glycals and aromatic halides to access 2-deoxy-β-C-aryl glycosides

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



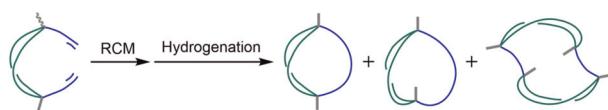
COMMUNICATIONS

6946

**A novel tumor theranostic strategy based on metabolic glycoengineering and disulfidoptosis**

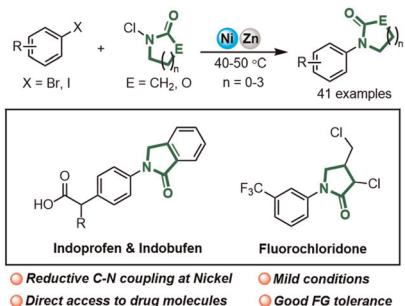
Jie Li, Hao Chang, Pengzhe Zhang, Liyu Hou, Wei Li,* Yixin Zhang* and Zhiqi Lao*

6950

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

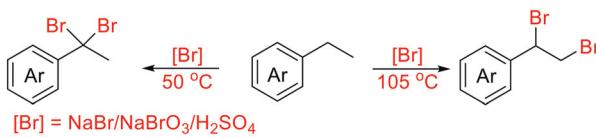
Yuyang Tu, Yusuke Inagaki, Kazuaki Ohara, Kentaro Yamaguchi and Wataru Setaka*

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 phenylethyanes in the presence of $\text{NaBr/NaBrO}_3/\text{H}_2\text{SO}_4$ as the bromination reagent**

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

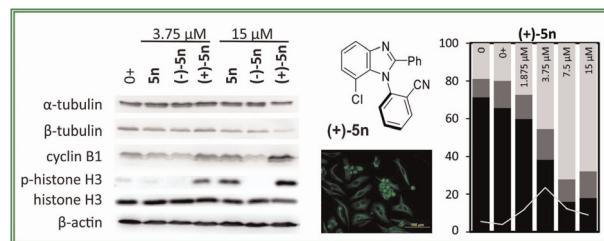


PAPERS

6966

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

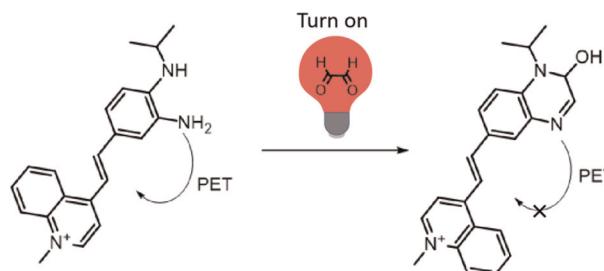
Jana Pospíšilová, Tomáš Heger, Ondřej Kurka, Marie Kvasnicová, Anna Chládková, Ivan Nemec, Lucie Rárová* and Petr Cankař*



6981

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

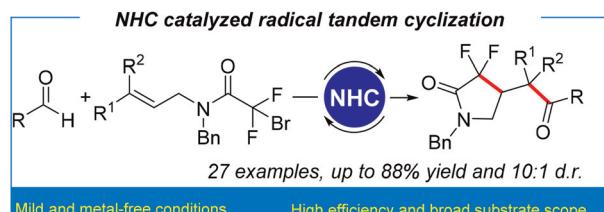
Zhiming Wang, Chang Liu,* Huirong Yao, Song He, Liancheng Zhao and Xianshun Zeng*



6988

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

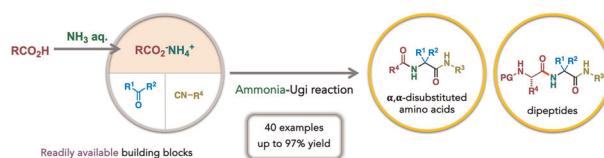
Tianjiao Huang, Huiping Yin, Tuanjie Li, Chenxia Yu, Kai Zhang* and Changsheng Yao*



6999

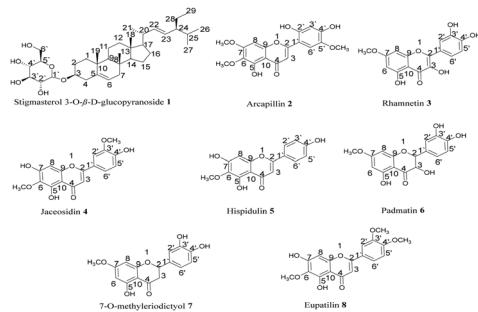
Ammonium carboxylates in the ammonia-Ugi reaction: one-pot synthesis of α,α -disubstituted amino acid derivatives including unnatural dipeptides

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



PAPERS

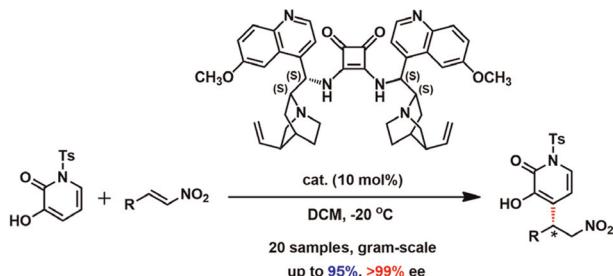
7006



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*

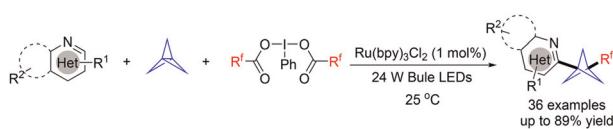
7017



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

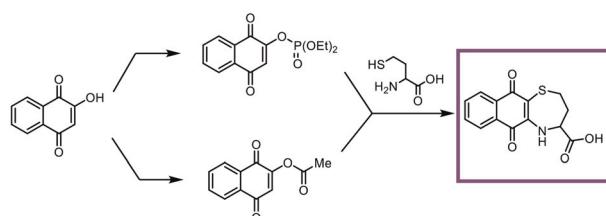


Photochemical tandem reaction of nitrogen containing heterocycles, bicyclo[1.1.1]pentane, and difluoriodane(III) reagents

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

7035

Biosynthesis of brevinic acid from lawsone



Biosynthesis of brevinic acid from lawsone

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

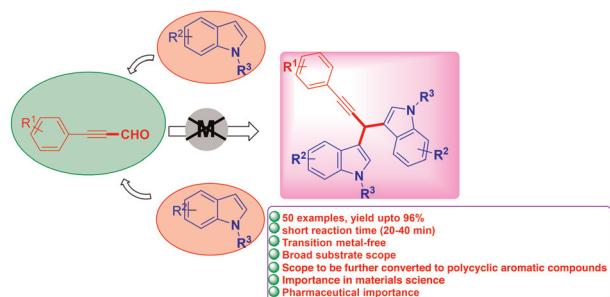


PAPERS

7039

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

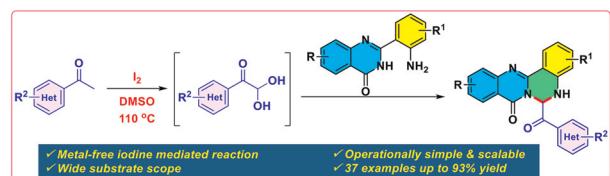
Anjali Chaturvedi, Vishal Sharma, Fathimath Nafla CM, Katikam SivaPrasad, Deepak Sharma, Nikhil Kumar, Rushal Chandel, Manpreet Singh, Ravindra K. Rawal* and Virender Singh*



7052

Iodine-promoted sequential C(sp³)–H oxidation and cyclization of aryl methyl ketones with 2-(2-aminophenyl)quinazolin-4(3*H*)-ones

Mariyarak 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*