

Organic & Biomolecular Chemistry

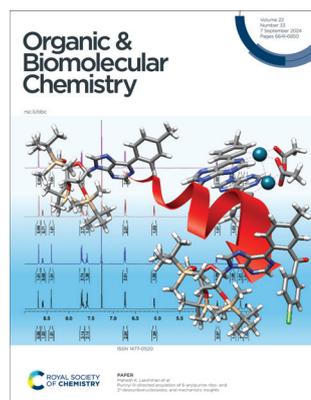
An international journal of synthetic, physical and biomolecular organic chemistry

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(33) 6641-6850 (2024)



Cover
See Mahesh K. Lakshman
et al., pp. 6718–6726.

Red spiral arrow 3d vector
1131351 from
VectorStock.com.

Image reproduced by
permission of Mahesh
K. Lakshman from *Org.
Biomol. Chem.*, 2024, **22**,
6718.

REVIEWS

6650

Titanium in photocatalytic organic transformations: current applications and future developments

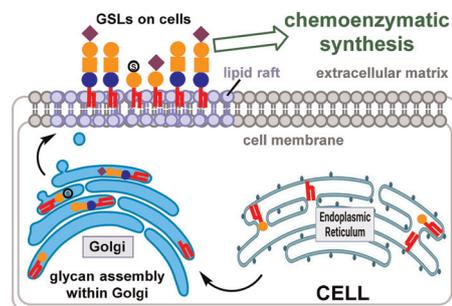
Jia-Lin Tu* and Binbin Huang*



6665

Glycosphingolipids: from metabolism to chemoenzymatic total synthesis

Mitra K. F. Bonab, Zhongwu Guo* and Qingjiang Li*



RSC Sustainability

GOLD
OPEN
ACCESS

Dedicated to sustainable
chemistry and new solutions

For an open, green and inclusive future

rsc.li/RSCSus

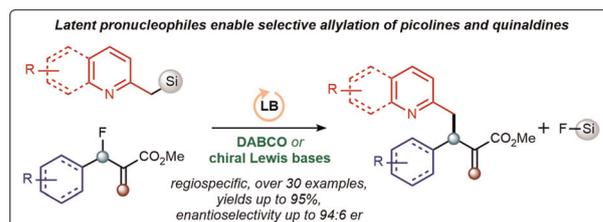
Fundamental questions
Elemental answers

COMMUNICATIONS

6684

Enantioselective Lewis base catalysed allylation of picoline- and quinaldine-based latent pronucleophiles

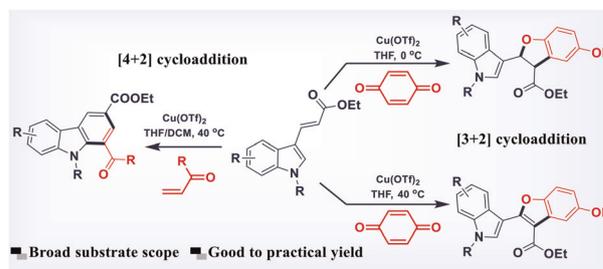
Markus Lange, Nikita Alistratov and Ivan Vilotijevic*



6690

Synthesis of indol-3-yl-benzofurans and carbazoles via $\text{Cu}(\text{OTf})_2$ -catalyzed [3 + 2] and [4 + 2] cycloaddition

Amar Nath Singh Chauhan, Vikrant Vini, Akhilesh Kumar and Rohan D. Erande*



6695

Rhodium-catalyzed intramolecular cyclization for synthesizing thiodihydropyrans

Yunxiao Wang, Ze-Feng Xu, Jing Chen, Mingming Yu,* Sheng-Rong Guo* and Chuan-Ying Li*



6699

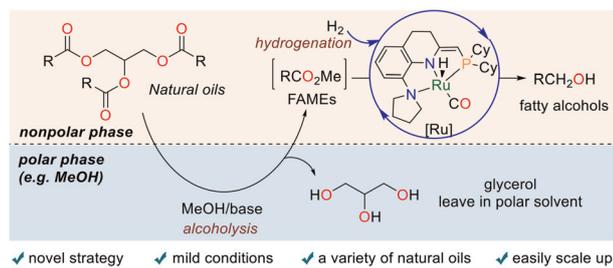
 InCl_3 catalyzed simultaneous reductive sulfoximination and *O*-silylation: synthesis of silyloxy benzylsulfoximine

K. Natarajan, V. Jayakumar, V. R. Padma Priya, A. Antony Haritha Mercy and Ganesh Chandra Nandi*



COMMUNICATIONS

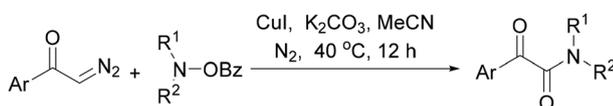
6703



Direct hydrogenation of natural oils to fatty alcohols enabled by an alcoholysis/hydrogenation relay strategy and two-phase solvent system

Ying Chen, Min-Jie Zhou, Yue Hu and Yinjun Xie*

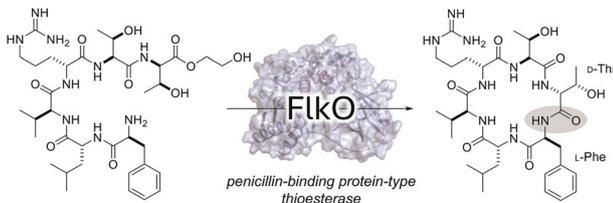
6708



Synthesis of α -ketoamides via oxidative amidation of diazo compounds with *O*-benzoyl hydroxylamines as nitrogen source and the oxidant

Wenwen Chen,* Xinyin Zhang, Xinyu Wang, EnXuan Zhang, Zu-Li Wang* and Jianfeng Jia*

6713

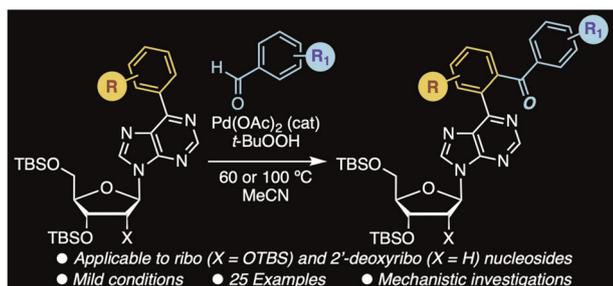


FlkO, a penicillin-binding protein-type thioesterase in cyclofauknamycin biosynthesis

Kenichi Matsuda,* Rintaro Ichihara and Toshiyuki Wakimoto*

PAPERS

6718



Purinyl *N*-directed arylation of 6-aryluracil ribo- and 2'-deoxyribonucleosides, and mechanistic insights

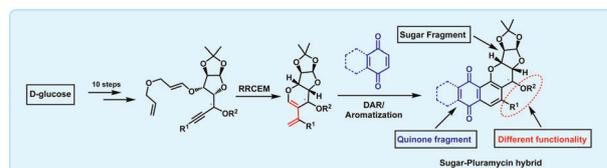
Mahesh K. Lakshman,* Casina T. Malinchak, Nathaniel Shank, Michelle C. Neary and Lothar Stahl



6727

A relay ring-closing metathesis/Diels–Alder approach to sugar-derived pluramycin-hybrids

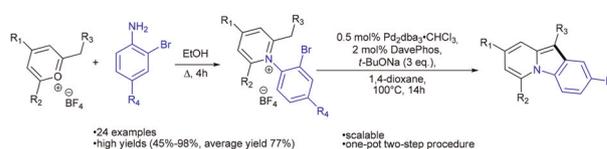
Ajad Singh and Krishna P. Kaliappan*



6742

Novel convenient 2-step synthesis of pyrido[1,2-a]indoles from pyrylium salts and o-bromoanilines

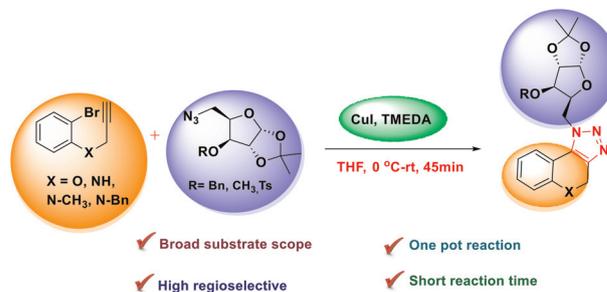
Olga V. Shurupova, Ekaterina S. Tarasova, Sergey A. Rzhevskiy, Lidiya I. Minaeva, Maxim A. Topchiy and Andrey F. Asachenko*



6748

Design and synthesis of 1,2-dihydroquinoline/ chromene fused sugar triazole frameworks by copper-catalyzed one-pot click and intramolecular arylation reactions

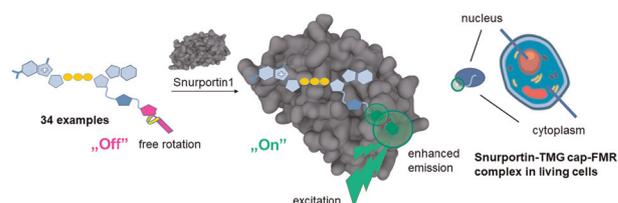
Mohammed Ansar Ahemad, Sabita Nayak,* Kamalika Prusty, Gopinatha Panigrahi, Suhasini Mohapatra and Seetaram Mohapatra



6763

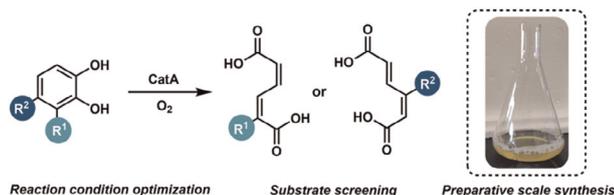
Trimethylguanosine cap-fluorescent molecular rotor (TMG–FMR) conjugates are potent, specific snurportin1 ligands enabling visualization in living cells

Piotr Surynt, Blazej A. Wojtczak, Mikolaj Chrominski, Joanna Panecka-Hofman, Karina Kwapiszewska, Tomasz Kalwarczyk, Dorota Kubacka, Tomasz Spiewla, Renata Kasprzyk, Robert Holyst, Joanna Kowalska and Jacek Jemielity*



PAPERS

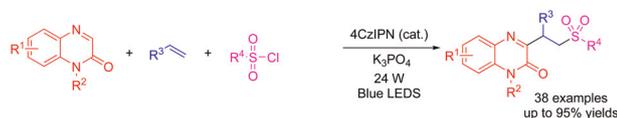
6791



Sustainable biocatalytic synthesis of substituted muconic acids

Devin J. Sobottka, Grace C. Rooney, Samantha P. Thompson, Jessica M. Ubbelohde, Ava M. Aldag, Austin R. Lerch and Tyler J. Doyon*

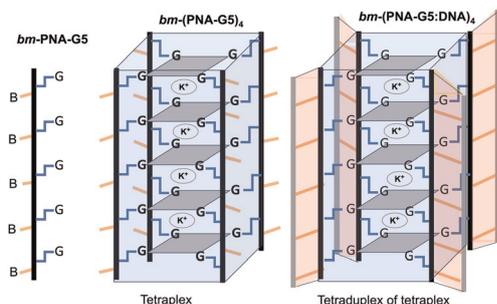
6799



Visible-light-induced tandem reaction of quinoxalin-2(1H)-ones, alkenes, and sulfonyl chlorides

Yaru Lu, Meng Li, Qianqian Feng, Ziqin Zhang, Zhenting Zhang, Kui Lu, Zhengyu Liu* and Xia Zhao*

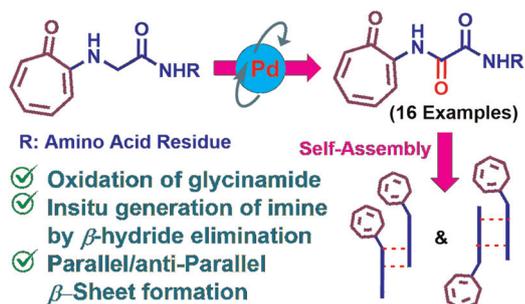
6810



Supramolecular polyplexes from Janus peptide nucleic acids (bm-PNA-G5): self-assembled bm-PNA G-quadruplex and its tetraduplex with DNA

Iranna Annappa Todkari, Preeti Chaudhary, Mahesh J. Kulkarni and Krishna N. Ganesh*

6822

Non-benzenoid *N*-aryl oxalamide: synthesis of troponyl-oxalamide peptides by Pd(II)-catalyzed C(sp³)-H functionalization of glycinamides

Chinmay K. Jena and Nagendra K. Sharma*

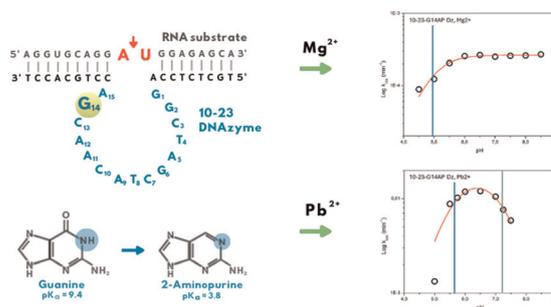


PAPERS

6833

Exploring the catalytic mechanism of the 10–23 DNAzyme: insights from pH–rate profiles

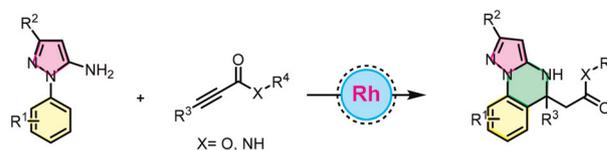
Virginia Parra-Meneses, Victoria Silva-Galleguillos and Marjorie Cepeda-Plaza*



6841

Combinatorial synthesis of substituted pyrazolo-fused quinazolines by the Rh(III)-catalyzed [5 + 1] annulation of phenyl-1H-pyrazol-5-amine with alkynoates and alkynamides

Wei-Jung Chiu, Ting-Yen Chu and Chung-Ming Sun*



CORRECTION

6847

Correction: Professor (Dr) Sukh Dev: an iconic scientist with an innate sixth sense who radicalized natural product synthesis & organic chemistry

Harry Kochat,* J. S. Yadav, Vinod K. Singh and S. S. V. Ramasastry

