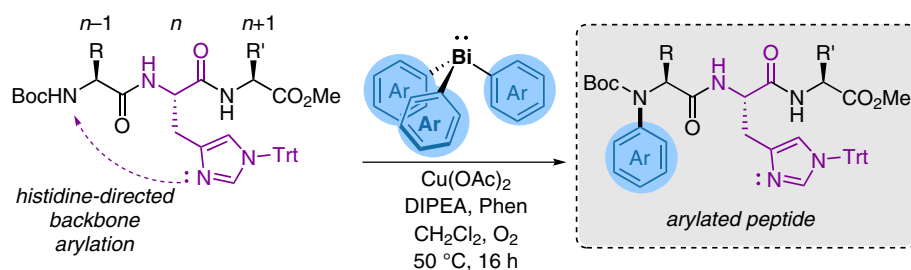


Synthesis

Reviews and Full Papers in Chemical Synthesis

August 17, 2022 • Vol. 54, 3499–3666



- histidine-directed peptide backbone arylation
- functions with di-, tri- and tetrapeptides
 - 35 examples, up to 84% yield
- proceeds at the N -terminal $n-1$ position
- postulated ATCUN-like intermediate

On the Copper-Promoted Backbone Arylation of Histidine-Containing Peptides Using Triarylbismuthines

H.-C. Chan, A. Gagnon

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Synthesis

Synthesis 2022, 54, 3499–3557
DOI: 10.1055/a-1783-0751

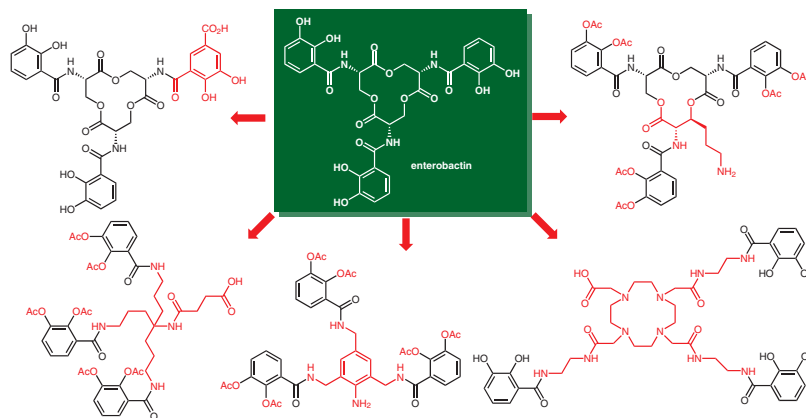
P. Klahn*
R. Zscherp
C. C. Jimidar

Technische Universität Braun-
schweig, Germany
University of Gothenburg,
Sweden

Advances in the Synthesis of Enterobactin, Artificial Analogues, and Enterobactin-Derived Antimicrobial Drug Conjugates and Imaging Tools for Infection Diagnosis

Review

3499



Synthesis

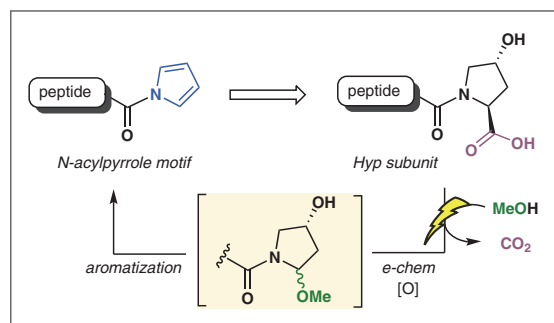
Synthesis 2022, 54, 3558–3567
DOI: 10.1055/s-0041-1737411

Y. Lin
L. R. Malins*
Australian National University,
Australia

Synthesis of Peptide *N*-Acylpyrroles via Anodically Generated *N*,*O*-Acetals

Feature

3558



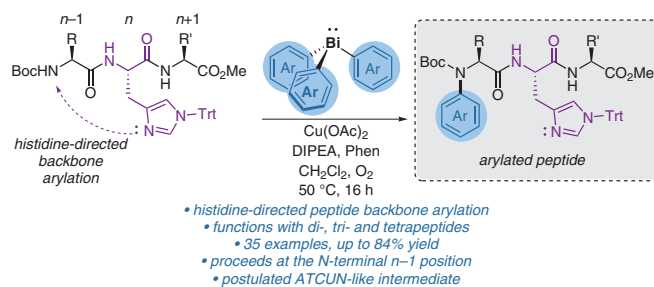
Synthesis

On the Copper-Promoted Backbone Arylation of Histidine-Containing Peptides Using Triarylbi-muthines

Synthesis 2022, 54, 3568–3587
DOI: 10.1055/a-1786-6578

H.-C. Chan
A. Gagnon*

Université du Québec à Mon-
tréal, Canada



Paper

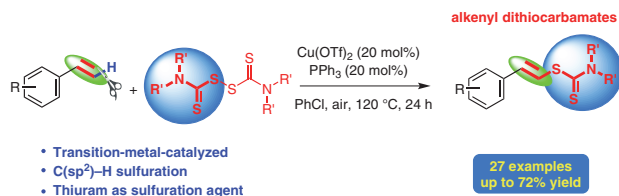
Synthesis

Copper-Catalyzed Direct $\text{C}(\text{sp}^2)\text{-H}$ Sulfuration of Aryl Alkenes by Using Tetraalkylthiuram Disulfides for the Synthesis of Alkenyl Dithiocarbamates

Synthesis 2022, 54, 3588–3594
DOI: 10.1055/a-1820-2475

J. Jiao
Z. Zhang*

East China University of Science
& Technology, P. R. of China



Paper

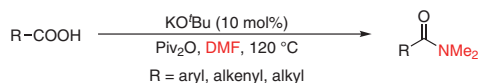
Synthesis

Potassium *tert*-Butoxide Facilitated Amination of Carboxylic Acids with *N,N*-Dimethylformamide

Synthesis 2022, 54, 3595–3604
DOI: 10.1055/a-1817-1965

Y. Huang
J. Zhang*

Wuhan University, P. R. of China



- transition-metal- and oxidant-free
- broad substrate scope with excellent functional group tolerance
- applicable in late-stage amidation of complex drug molecules

Synthesis

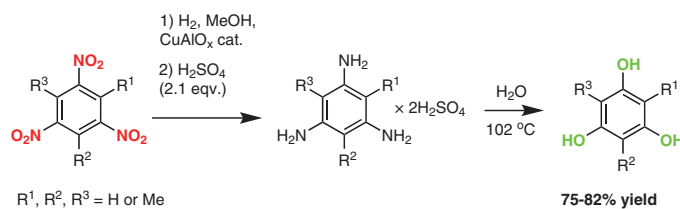
Synthesis 2022, 54, 3605–3612
DOI: 10.1055/a-1807-3188

A. L. Nuzhdin*
I. Shchurova
M. V. Bukhtiyarova
O. A. Bulavchenko
N. A. Alekseyeva
S. V. Sysolyatin
G. A. Bukhtiyarova

Boreskov Institute of Catalysis SB
RAS, Russian Federation

Flow Hydrogenation of 1,3,5-Trinitrobenzenes over Cu-Based Catalysts as an Efficient Approach for the Preparation of Phloroglucinol Derivatives

Paper
3605



- environmentally friendly and safe synthesis
- hydrogenation in a flow reactor
- non-precious-metal-based protocol

Synthesis

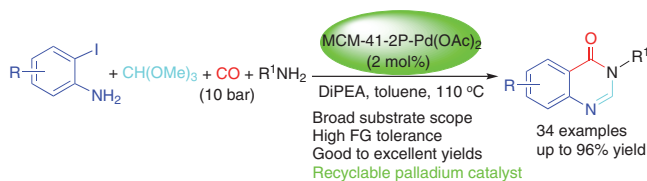
Synthesis 2022, 54, 3613–3622
DOI: 10.1055/s-0040-1719924

J. Li
Z. Zhou
G. Xie
M. Cai*

Jiangxi Normal University,
P. R. of China

Recyclable Palladium-Catalyzed Carbonylative Coupling of 2-Iodoanilines, Trimethyl Orthoformate, and Amines: A Practical Synthesis of Quinazolin-4(3H)-ones

Paper
3613



Synthesis

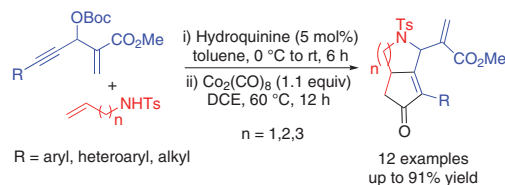
Synthesis 2022, 54, 3623–3630
DOI: 10.1055/a-1828-1560

C. R. Reddy*
S. Z. Mohammed
P. Kumaraswamy
R. C. Kajare
A. D. Patil
V. S. Rao Ganga
A. Ramaraju
B. Sridhar

CSIR-Indian Institute of Chemical
Technology (CSIR-IICT), India

A Strategy for the Synthesis of Bicyclic Fused Cyclopentenones from MBH-Carbonates of Propionaldehydes

Paper
3623



Synthesis

Synthesis 2022, 54, 3631–3641
DOI: 10.1055/a-1801-3656

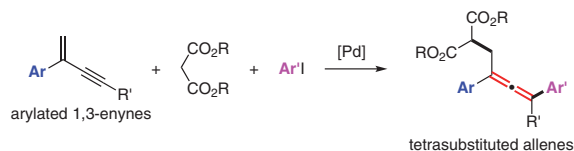
J. Bao
R. Wei
Y. Li*
H. Bao

Fujian Institute of Research on
the Structure of Matter,
P. R. of China

Palladium-Catalyzed Three-Component 1,4-Carboarylation of 1,3-Enynes with Malonic Esters and Aryl Iodides

Paper

3631



Synthesis

Synthesis 2022, 54, 3642–3650
DOI: 10.1055/a-1814-9637

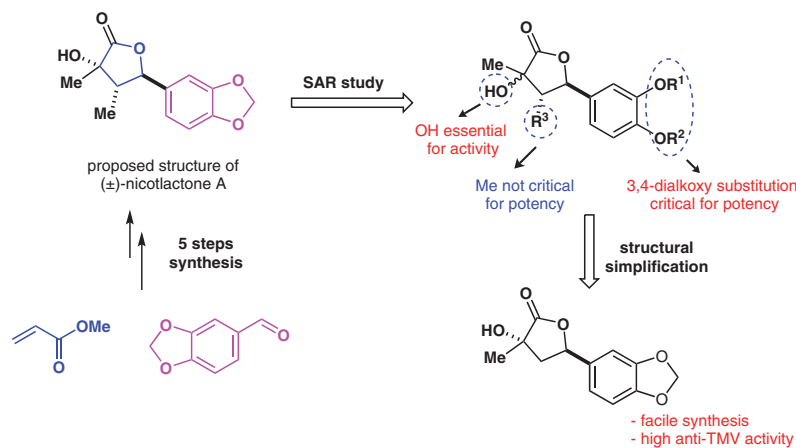
H.-W. He
Y. Chi
C.-Y. Chen
F.-Y. Wang
J.-X. Wang
D. Xu
H. Zhou*
G. Xu*

Northwest A & F University,
P. R. of China
State Key Laboratory of Crop
Stress Biology for Arid Areas,
P. R. of China

Synthesis and Structure–Activity Relationship Studies of Nicotlactone Analogues as Anti-TMV Agents

Paper

3642



Synthesis

Synthesis 2022, 54, 3651–3657
DOI: 10.1055/s-0041-1737413

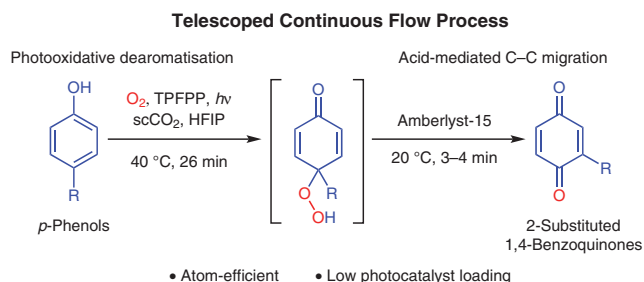
B. L. Abreu
H. Boufroua
J. C. Moore
M. Poliakkoff
M. W. George*

University of Nottingham, UK

Telescoped Continuous Flow Synthesis of 2-Substituted 1,4-Benzoquinones via Oxidative Dearomatisation of *para*-Substituted Phenols Using Singlet Oxygen in Supercritical CO₂

Paper

3651



Y. V. Ostapiuk*
M. Y. Ostapiuk
O. V. Barabash
M. Kravets
C. Herzberger
J. C. Namyslo
M. D. Obushak
A. Schmidt*

Ivan Franko National University
of Lviv, Ukraine
Clausthal University of Technolo-
gy, Germany

One-Pot Syntheses of Substituted 2-Aminothiazoles and 2-Amino- selenazoles via Meerwein Arylation of Alkyl Vinyl Ketones

