

Synthesis

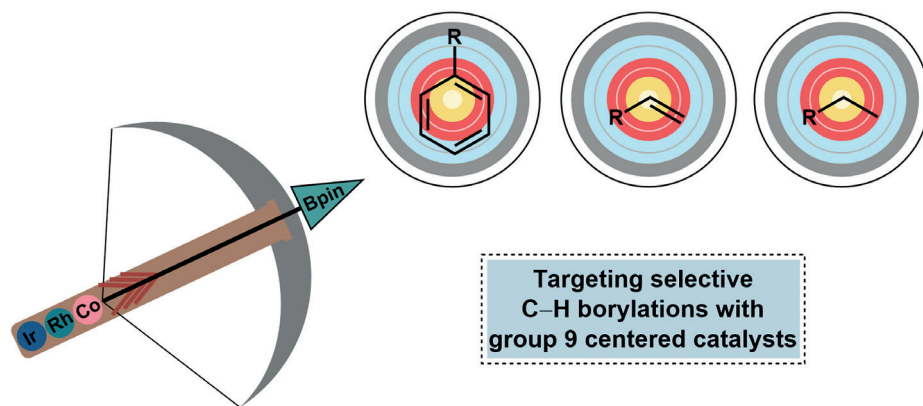
Reviews and Full Papers in Chemical Synthesis

August 2, 2022 • Vol. 54, 3307–3498

Special Section

*Bürgenstock Special Section 2021 –
Future Stars in Organic Chemistry*

Editor: Paul Knochel



Recent Trends in Group 9 Catalyzed C–H Borylation Reactions:
Different Strategies To Control Site-, Regio-, and Stereoselectivity

L. Veth, H. A. Grab, P. Dydio

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Synthesis

Synthesis 2022, 54, 3307–3316
DOI: 10.1055/a-1822-4690

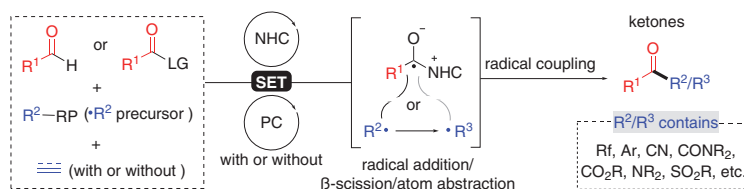
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Guangdong University of Technology,
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Research Progress on *N*-Heterocyclic Carbene Catalyzed Reactions for Synthesizing Ketones through Radical Mechanism

Short Review

3307



Synthesis

Synthesis 2022, 54, 3317–3327
DOI: 10.1055/a-1828-2170

H. Zhao
H. Pan
Y. Yao
J. Huang*
Y. Chen*

Guizhou University,
P. R. of China

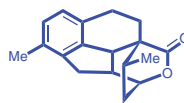
Recent Advances in the Total Synthesis of Cephalotane-Type Norditerpenoids from *Cephalotaxus sinensis*

Short Review

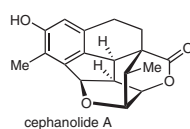
3317



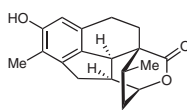
Cephalotaxus sinensis



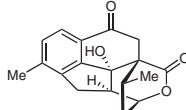
cephalotaxine-type skeleton



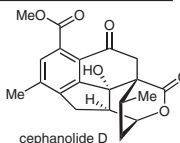
cephanolide A



cephanolide B



cephanolide C



cephanolide D

Synthesis

Synthesis **2022**, *54*, 3328–3340
DOI: 10.1055/a-1816-3334

Md E. Hoque
M. Md M. Hassan
C. Haldar
S. Dey
S. Guria
J. Chaturvedi
B. Chattopadhyay*

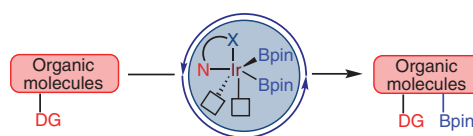
Center of Biomedical Research,
Division of Molecular Synthesis &
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Catalyst Engineering through Heterobidentate (N–X-Type) Ligand Design for Iridium-Catalyzed Borylation

Short Review

3328

Heterobidentate ligand for C–H borylation



Synthesis

Synthesis **2022**, *54*, 3341–3350
DOI: 10.1055/s-0040-1719913

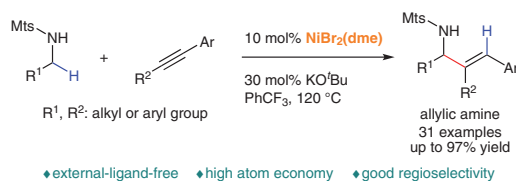
J.-Y. Li
L. Li
Y.-Z. Lin
H. Shi*

Westlake University,
P. R. of China
Westlake Institute for Advanced
Study, P. R. of China

External-Ligand-Free, Nickel-Catalyzed Alkenylation of *N*-Sulfonyl-amines with Internal Alkynes

Feature

3341



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Synthesis **2022**, *54*, 3351–3366
DOI: 10.1055/s-0040-1719912

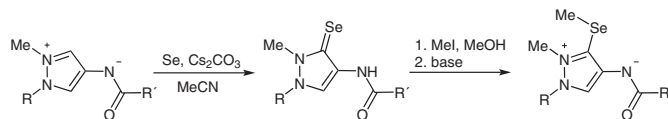
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F. Lederle
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A. Schmidt*

Clausthal University of Technolo-
gy, Germany

Pyrazoles in the Intersection of Mesomeric Betaines and N-Heterocyclic Carbenes: Formation of NHC Selenium Adducts of Pyrazolium-4-aminides

Feature

3351



Synthesis

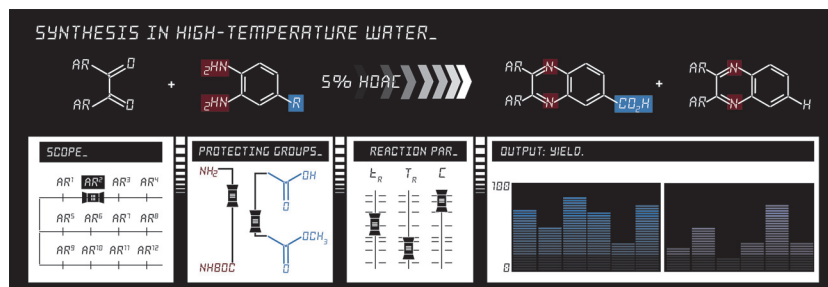
Synthesis 2022, 54, 3367–3382
DOI: 10.1055/s-0040-1719922

F. Amaya-García
M. M. Unterlass*
Universität Konstanz, Germany

Synthesis of 2,3-Diarylquinoxaline Carboxylic Acids in High-Temperature Water

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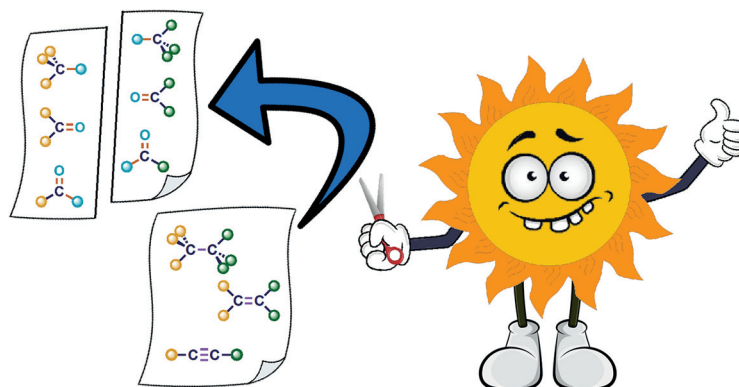
Synthesis 2022, 54, 3383–3398
DOI: 10.1055/s-1702-6193

J. Vanderghinste
S. Das*
University of Antwerp, Belgium

Applications of Photoredox Catalysis for the Radical-Induced Cleavage of C–C Bonds

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3383



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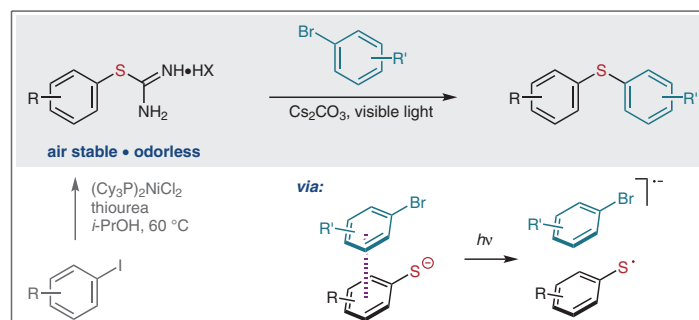
Synthesis 2022, 54, 3399–3408
DOI: 10.1055/s-0041-1737816

C. Swan
L. Maggi
M. Park
S. Taylor
W. Shepherd
L. T. Ball*
University of Nottingham, UK

Generation of Thiyl Radicals from Air-Stable, Odorless Thiophenol Surrogates: Application to Visible-Light-Promoted C–S Cross-Coupling

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Synthesis

Synthesis 2022, 54, 3409–3413
DOI: 10.1055/a-1776-0929

T. Bortolato
M. Dyguda

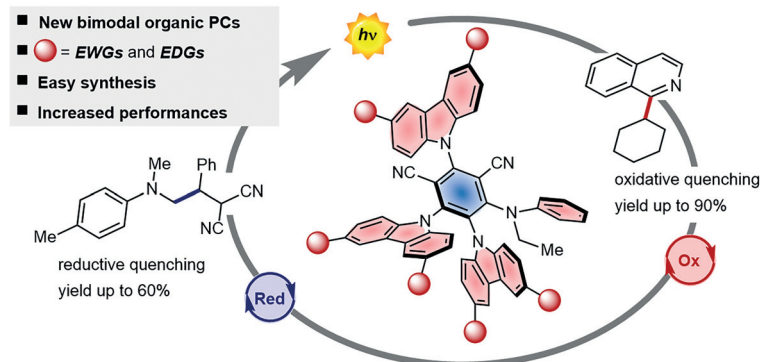
A. Vega-Peñaloza*
L. Dell'Amico*

University of Padova, Italy

Properties and Synthetic Performances of Phenylamino Cyanoarenes under One-Photon Excitation Manifolds

Special Topic

3409



Synthesis

Synthesis 2022, 54, 3414–3420
DOI: 10.1055/a-1709-3305

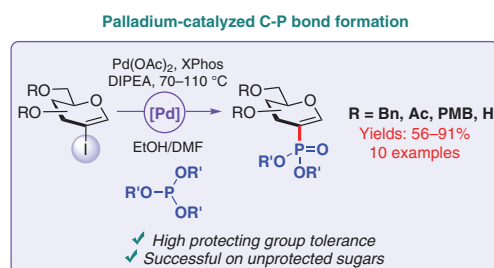
O. Monasson
M. Malinowski
N. Lubin-Germain
A. Ferry*

CY Cergy-Paris Université,
France
Université Paris-Saclay, France

Hirao Cross-Coupling Reaction as an Efficient Tool to Build Non-natural C2-Phosphonylated Sugars

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3414



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Synthesis 2022, 54, 3421–3431
DOI: 10.1055/a-1684-5552

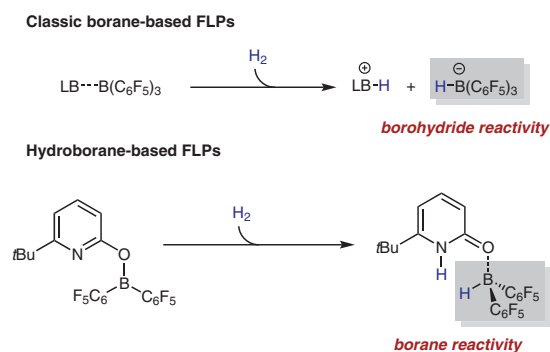
F. Wech
U. Gellrich*

Justus-Liebig-Universität Gießen,
Germany

Hydrogenation of Olefins, Alkynes, Allenes, and Arenes by Borane-Based Frustrated Lewis Pairs

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Organic Nitrating Reagents

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3432

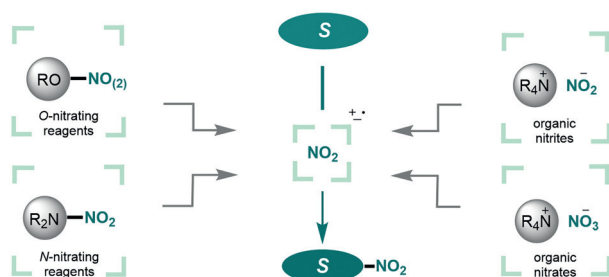
Synthesis 2022, 54, 3432–3472
DOI: 10.1055/s-0040-1719905

S. Patra
I. Mosiagin

R. Giri

D. Katayev*

Université de Fribourg,
Switzerland



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Mimicking Enzymes: Taking Advantage of the Substrate-Recognition Properties of Metalloporphyrins in Supramolecular Catalysis

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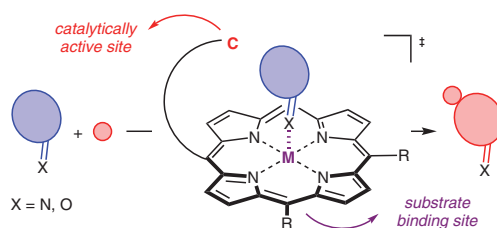
3473

Synthesis 2022, 54, 3473–3481
DOI: 10.1055/a-1729-9223

N. Abuhafez
A. Perennes

R. Gramage-Doria*

Univ Rennes, France



Synthesis

Recent Trends in Group 9 Catalyzed C–H Borylation Reactions: Different Strategies To Control Site-, Regio-, and Stereoselectivity

Special Topic

3482

Synthesis 2022, 54, 3482–3498
DOI: 10.1055/a-1711-5889

L. Veth
H. A. Grab
P. Dydio*

University of Strasbourg, France

