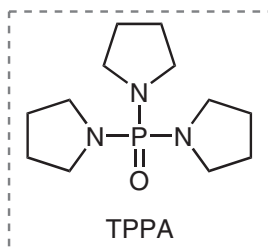
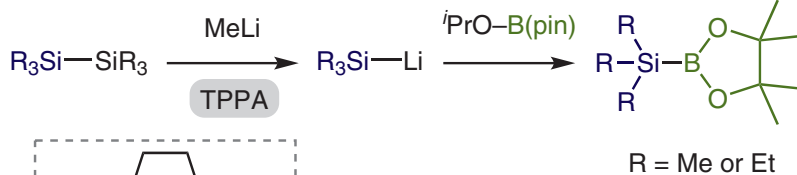


Synthesis

Reviews and Full Papers in Chemical Synthesis

December 17, 2021 • Vol. 53, 4527–4722



*without carcinogenic HMPA
less toxic TPPA as surrogate for HMPA
enabling Me₃Si-B(pin) to be accessed*

HMPA-Free Generation of Trialkylsilyllithium Reagents and Its Applications to the Synthesis of Silylboronic Esters

S. Kamio, T. Imagawa, M. Nakamoto, M. Oestreich, H. Yoshida

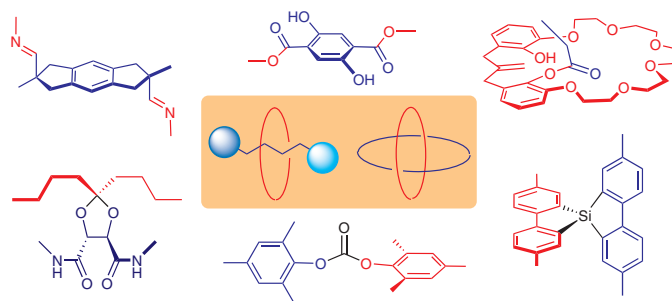
24

Synthesis

Synthesis 2021, 53, 4527–4548
DOI: 10.1055/a-1665-4650

M. D. Cornelissen
S. Pilon
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University of Amsterdam,
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Covalently Templated Syntheses of Mechanically Interlocked Molecules



Review

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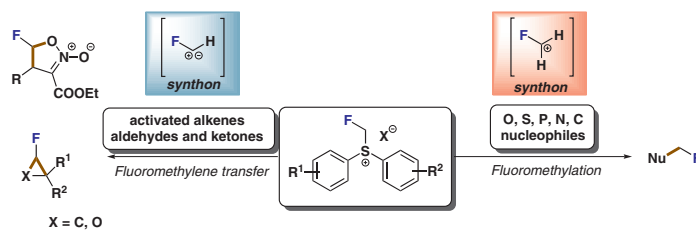
4527

Synthesis

Synthesis 2021, 53, 4549–4558
DOI: 10.1055/a-1548-8240

R. Melngailė
J. Veliks*
Latvian Institute of Organic Syn-
thesis, Latvia

Synthetic Applications of Monofluoromethylsulfonium Salts



Short Review

4549

Synthesis

Synthesis 2021, 53, 4559–4566
DOI: 10.1055/a-1560-5245

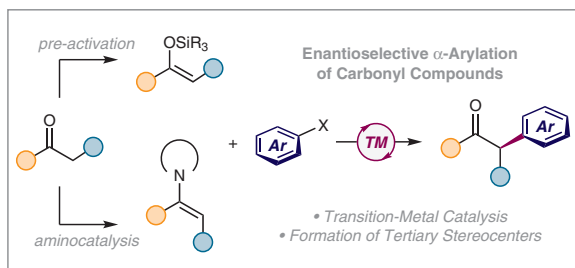
M. Orlandi*
M. Escudero-Casao
G. Licini

University of Padova, Italy

Transition-Metal-Catalyzed Enantioselective α -Arylation of Carbonyl Compounds to Give Tertiary Stereocenters

Short Review

4559



Synthesis

Synthesis 2021, 53, 4567–4587
DOI: 10.1055/a-1577-5864

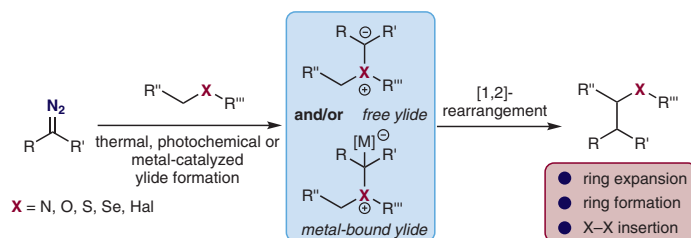
C. Empel
S. Jana
R. M. Koenigs*

RWTH Aachen University,
Germany

Advances in [1,2]-Sigmatropic Rearrangements of Onium Ylides via Carbene Transfer Reactions

Short Review

4567



Synthesis

Synthesis 2021, 53, 4588–4598
DOI: 10.1055/a-1577-7850

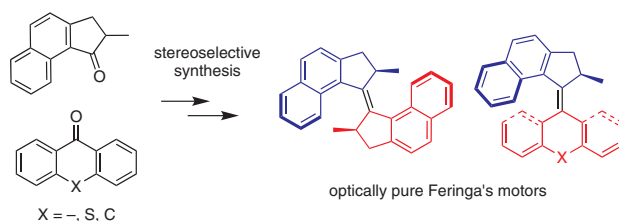
Y.-N. Qin
C. Zhang
Q. Li*

G.-Y. Du*
Hubei University, P. R. of China
Zhejiang University of Technology,
P. R. of China

Development of Synthetic Strategies to Access Optically Pure Feringa's Motors

Short Review

4588



Synthesis 2021, 53, 4599–4613
DOI: 10.1055/a-1561-7953

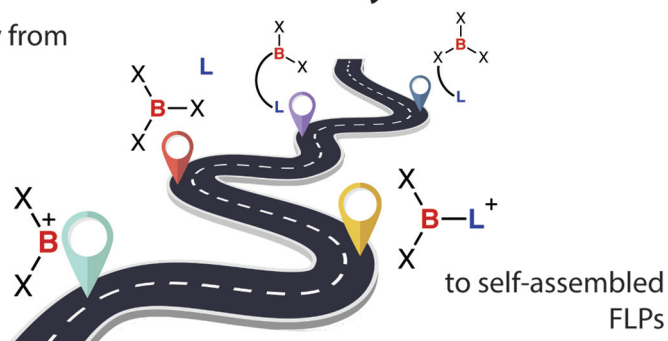
F.-G. Fontaine*
V. Desrosiers

Université Laval, Canada

4599

Boron Lewis Pair Borylation

The journey from
borenium...

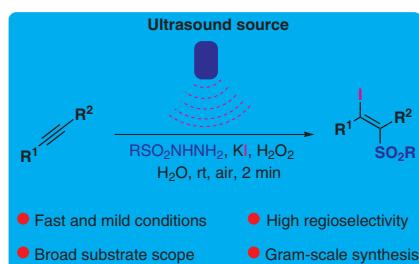


Synthesis 2021, 53, 4614–4620
DOI: 10.1055/a-1559-3346

C. Zhou
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4614

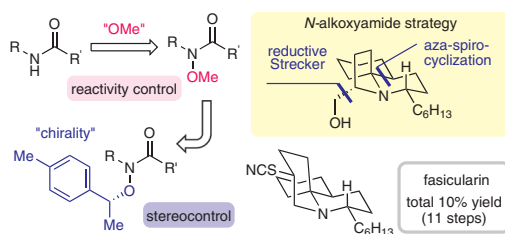


Synthesis 2021, 53, 4621–4635
DOI: 10.1055/a-1561-7815

R. Minamikawa
K. Fukaya
A. Kobayashi
Y. Komiya
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4621



Synthesis

Synthesis 2021, 53, 4636–4643
DOI: 10.1055/a-1581-0235

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S. Takahashi
K. Hasegawa
T. Aoyama

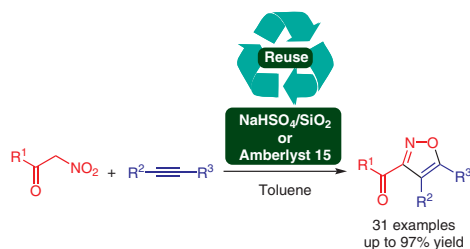
Nihon University, Japan

A Facile Approach to the Synthesis of 3-Acylisoxazole Derivatives with Reusable Solid Acid Catalysts

Paper



4636



Synthesis

Synthesis 2021, 53, 4644–4653
DOI: 10.1055/a-1559-3020

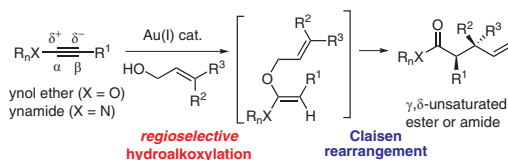
S. Misawa
A. Miyairi
Y. Oonishi*
S. P. Nolan
Y. Sato*

Hokkaido University, Japan

Synthesis of γ,δ -Unsaturated Esters and Amides via Au(I)-Catalyzed Reactions of Aryl Ynol Ethers or Ynamides with Allylic Alcohols

Paper

4644



Synthesis

Synthesis 2021, 53, 4654–4661
DOI: 10.1055/a-1558-7457

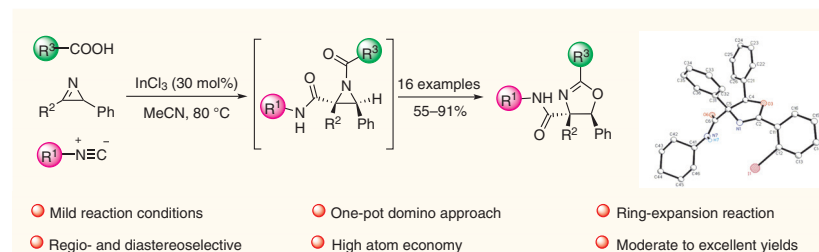
A. Nikbakht
F. Mohammadi
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K. Amiri
S. Balalaie*
F. Rominger
H. R. Bijanzadeh

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A Domino Approach for the Synthesis of 4-Carboxamide Oxazolines from Azirines

Paper

4654



Synthesis

Synthesis 2021, 53, 4662–4671
DOI: 10.1055/a-1559-3384

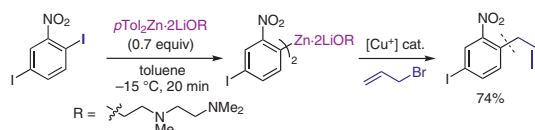
F. Sanchez
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F. Danton
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Germany

Regioselective Iodine/Zinc Exchange for the Selective Functionalization of Polyiodinated Arenes and Heterocycles in Toluene

Paper

4662



Synthesis

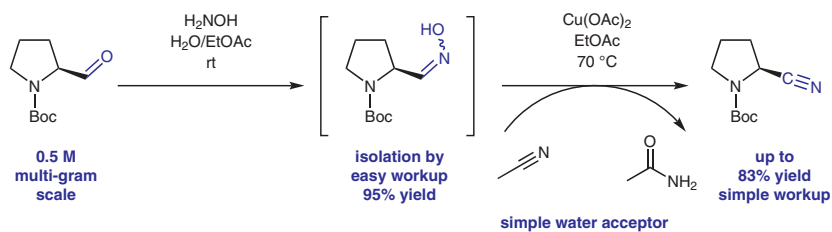
Synthesis 2021, 53, 4672–4677
DOI: 10.1055/a-1549-0903

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Process Development of a Copper(II)-Catalyzed Dehydration of an *N*-Acyl Prolinal Oxime: Cascade Process and Application at an Elevated Lab Scale

Paper

4672



cyanide-free
cascade process
no intermediate purification needed
easily scalable

Synthesis

Synthesis 2021, 53, 4678–4681
DOI: 10.1055/a-1558-9135

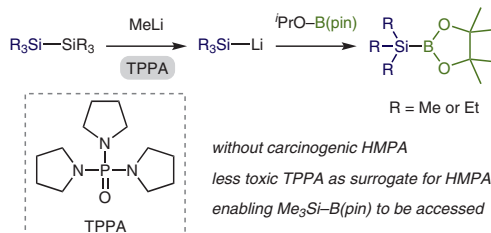
S. Kamio
T. Imagawa
M. Nakamoto
M. Oestreich*
H. Yoshida*

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Technische Universität Berlin,
Germany

HMPA-Free Generation of Trialkylsilyllithium Reagents and Its Applications to the Synthesis of Silylboronic Esters

Paper

4678



without carcinogenic HMPA
less toxic TPPA as surrogate for HMPA
enabling $\text{Me}_3\text{Si}-\text{B}(\text{pin})$ to be accessed

Synthesis

Atropisomeric Properties of 9-Methyl-1,4-benzodiazepin-2-ones

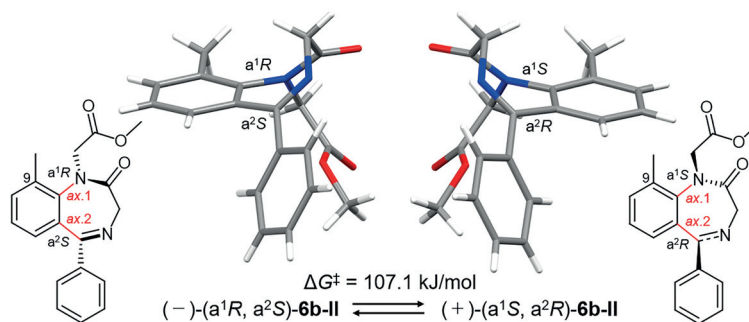
Paper

4682

Synthesis 2021, 53, 4682–4688
DOI: 10.1055/s-0040-1720865

R. Tanaka
K. Makino
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Japan



Synthesis

1,5-Hydride-Shift-Triggered Cyclization for the Synthesis of Unsymmetric Julolidines

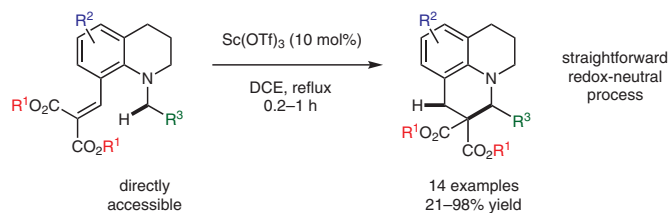
Paper

4689

Synthesis 2021, 53, 4689–4699
DOI: 10.1055/a-1559-2728

V. V. Shirokova
V. A. Ikonnikova
P. N. Solyev
V. A. Lushpa
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National Research University Higher School of Economics, Russian Federation



Synthesis

Methylation Alkynylation of Terminal Alkenes via 1,2-Alkynyl Migration Using Dicumyl Peroxide as the Methyl Source

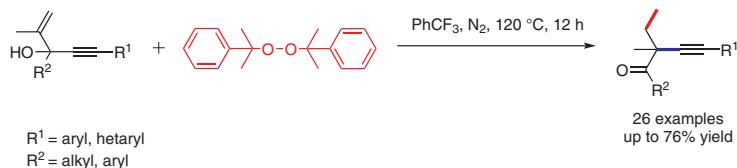
Paper

4700

Synthesis 2021, 53, 4700–4708
DOI: 10.1055/a-1528-8357

Y.-q. Qin
D. Chen
L. Liu
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X.-j. Peng
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Synthesis 2021, 53, 4709–4722
DOI: 10.1055/s-0037-1610783

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