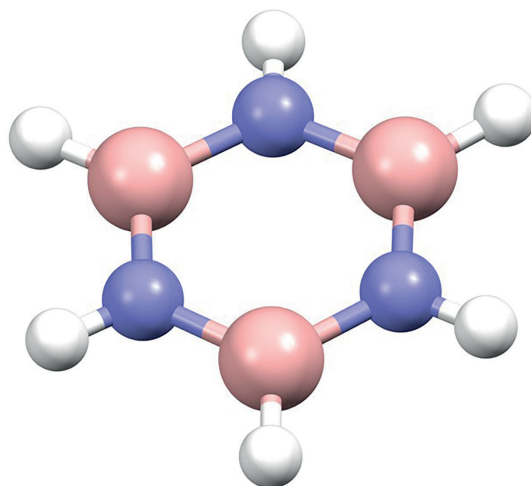


Synthesis

Reviews and Full Papers in Chemical Synthesis

April 14, 2022 • Vol. 54, 1877–2080



Synthesis and Reactions of Borazines

I. Neogi, A. M. Szpilman

8

Synthesis

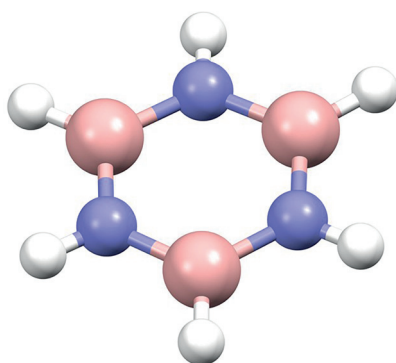
Synthesis and Reactions of Borazines

Review

Synthesis 2022, 54, 1877–1907
DOI: 10.1055/a-1684-0031

I. Neogi*
A. M. Szpilman*

CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), India
Ariel University, Israel



1877

Synthesis

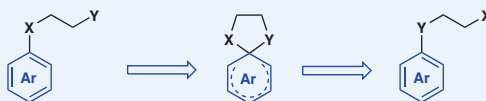
Recent Advances in the Smiles Rearrangement: New Opportunities for Arylation

Short Review

Synthesis 2022, 54, 1908–1918
DOI: 10.1055/a-1710-6289

D. M. Whalley
M. F. Greaney*
The University of Manchester,
UK

The Smiles Rearrangement



X = SO₂, NC(O), O, CO₂ etc.
Y = C, N, O, S etc.

• Polar and radical variants • Heterocycle syntheses • Alkene/alkyne functionalization
• Asymmetric arylation • Mild and/or operationally simple

1908

Synthesis

Synthesis 2022, 54, 1919–1938
DOI: 10.1055/s-0040-1719900

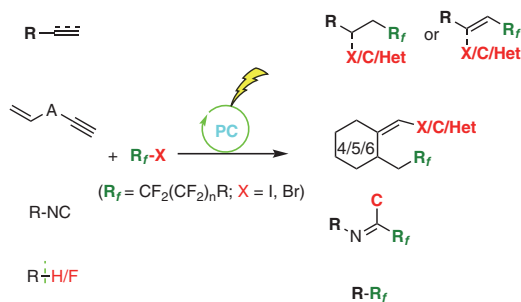
T. Liu
J. Liu
J. He
Y. Hong
H. Zhou
Y.-L. Liu
S. Tang*

Jishou University, P. R. of China

Recent Advances in Photoinduced Perfluoroalkylation Using Perfluoroalkyl Halides as the Radical Precursors

Short Review

1919



Synthesis

Synthesis 2022, 54, 1939–1950
DOI: 10.1055/s-0040-1729-9664

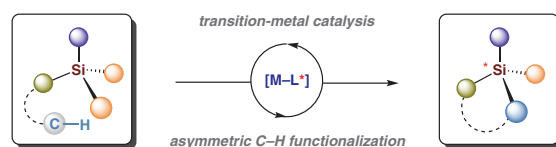
W. Yuan
C. He*

Southern University of Science
and Technology, P. R. of China

Enantioselective C–H Functionalization toward Silicon-Stereogenic Silanes

Short Review

1939



Synthesis

Synthesis 2022, 54, 1951–1963
DOI: 10.1055/s-0040-1719893

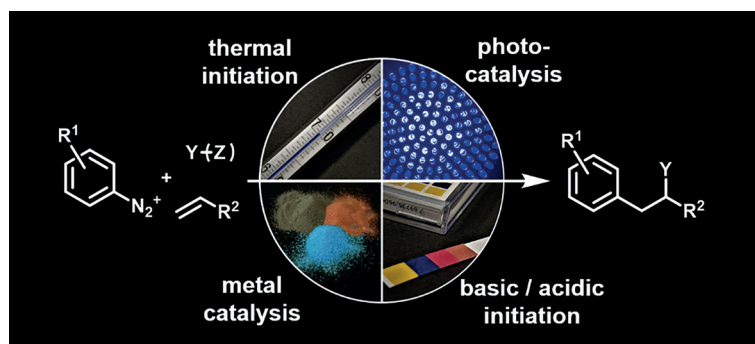
N. Diesendorf
M. R. Heinrich*

Friedrich-Alexander Universität
Erlangen-Nürnberg, Germany

Current Advances in Meerwein-type Radical Alkene Functionalizations

Short Review

1951



Synthesis

Recent Advances in Decarboxylative Conversions of Cyclic Carbonates and Beyond

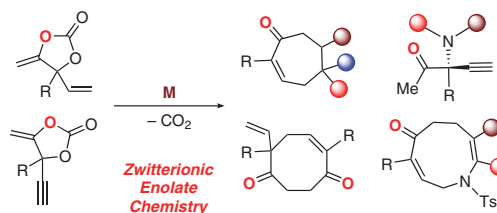
Short Review

1964

Synthesis **2022**, *54*, 1964–1976
DOI: 10.1055/a-1715-7413

B. Yan
W. Guo*

Xi'an Jiaotong University,
P. R. of China



Synthesis

Total Synthesis of (+)-Kingianin A by Enantioselective Cycloaddition of Strained Cyclobutenone

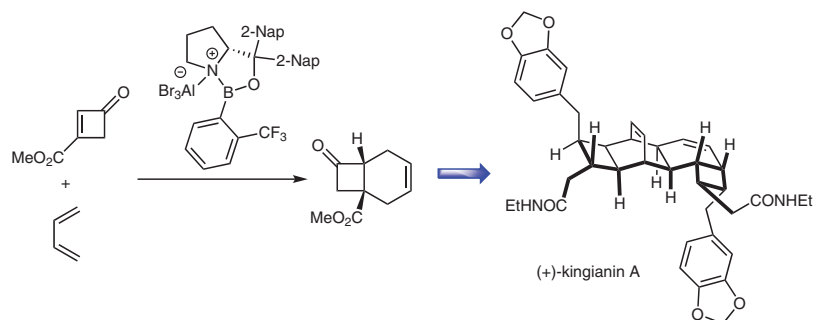
Feature

1977

Synthesis **2022**, *54*, 1977–1982
DOI: 10.1055/s-0041-1737339

J. Zhang
P. Yan
Z. Wang
J. Zhao*
Q. Chen*
P. Lu*

Changchun University of Technology, P. R. of China
Fudan University, P. R. of China



Synthesis

Total Synthesis of the Proposed Structure of Tyloindane and Its Diastereoisomer

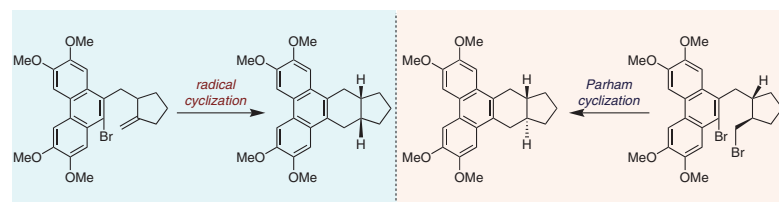
Feature

1983

Synthesis **2022**, *54*, 1983–1988
DOI: 10.1055/s-0037-1610789

B. Su
H. Zhang
Q. Wang*

Nankai University, P. R. of China



Synthesis

Cobalt-Catalyzed Glaser-type Homocoupling Reaction

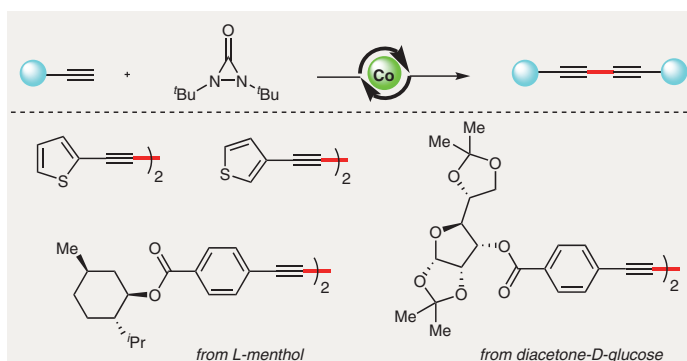
Feature

1989

Synthesis **2022**, 54, 1989–1995
DOI: 10.1055/a-1711-6097

J.-F. Han
P. Guo
L. Chen
K.-Y. Ye*

Fuzhou University, P. R. of China



Synthesis

Switchable Synthesis of Sulfoxides, Sulfones and Thiosulfonates through Selectfluor-Promoted Oxidation with H₂O as O-Source

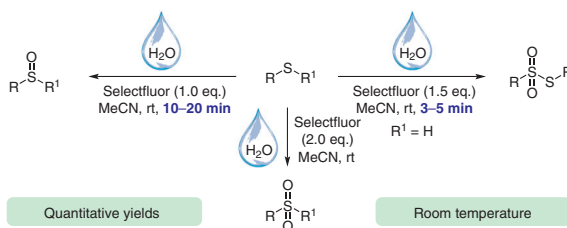
Paper

1996

Synthesis **2022**, 54, 1996–2004
DOI: 10.1055/a-1701-6700

X. Guo
X. Sun
M. Jiang
Y. Zhao*

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P. R. of China



Synthesis

The Application of 1,2-Oxazinanes as Chiral Cyclic Weinreb Amide-Type Auxiliaries Leading to a Three-Component, One-Pot Reaction

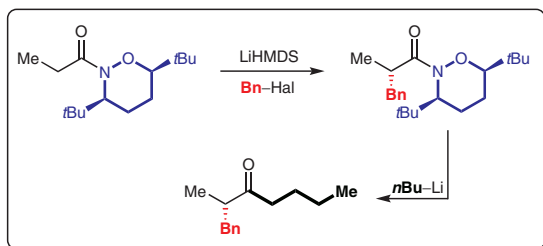
Paper

2005

Synthesis **2022**, 54, 2005–2018
DOI: 10.1055/a-1683-0484

J. Fährmann
L. Hermann
G. Hilt*

Universität Oldenburg, Germany



Synthesis

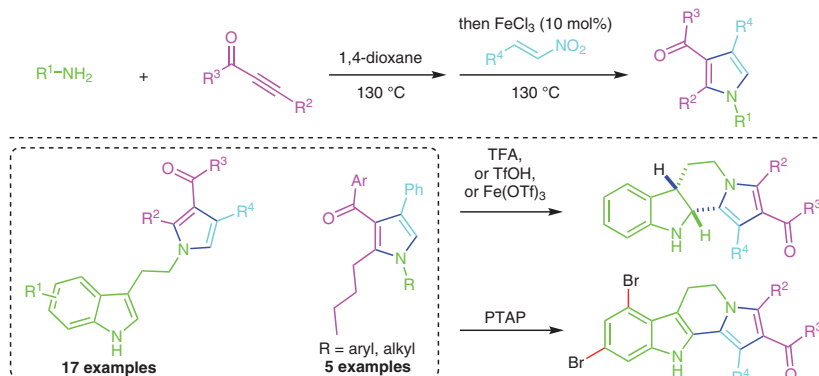
Synthesis 2022, 54, 2019–2030
DOI: 10.1055/a-1681-7480

X. Xiao
X.-H. Chen
X.-X. Wang
W.-Z. Li
H.-L. Cui*

Chongqing University of Arts
and Sciences, P. R. of China

Iron-Catalyzed One-Pot Synthesis of Indole-Tethered Tetrasubstituted Pyrroles and Their Transformations to Indolizino[8,7-*b*]indole Derivatives

Paper
2019



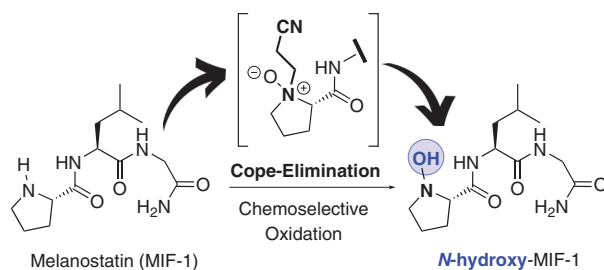
Synthesis

Synthesis 2022, 54, 2031–2036
DOI: 10.1055/a-1695-1095

I. E. Sampaio-Dias*
S. C. Silva-Reis
B. L. Pires-Lima
X. C. Correia
H. F. Costa-Almeida
University of Porto, Portugal

A Convenient On-Site Oxidation Strategy for the *N*-Hydroxylation of Melanostatin Neuropeptide Using Cope Elimination

Paper
2031



Synthesis

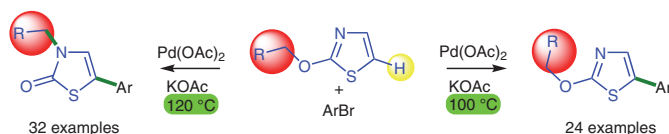
Synthesis 2022, 54, 2037–2048
DOI: 10.1055/s-0041-1737326

H.-Y. Huang
H. Li
M. Cordier
H. Doucet*

Univ Rennes, France

Palladium-Catalyzed C–H Bond Arylation and *O*- to *N*-Alkyl Migratory Rearrangement of 2-Alkoxythiazoles: One-Pot Access to 2-Alkoxy-5-arylthiazoles or 3-Alkyl-5-arylthiazol-2(3*H*)-ones

Paper
2037



Synthesis

Synthesis 2022, 54, 2049–2056
DOI: 10.1055/a-1701-7500

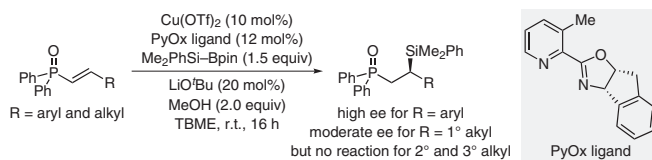
D. Hong
W. Mao
E. Irran
M. Oestreich*

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Germany

Enantioselective, Copper-Catalyzed Addition of Nucleophilic Silicon to Alkenyl-Substituted Phosphine Oxides

Paper

2049



Synthesis

Synthesis 2022, 54, 2057–2069
DOI: 10.1055/a-1685-2279

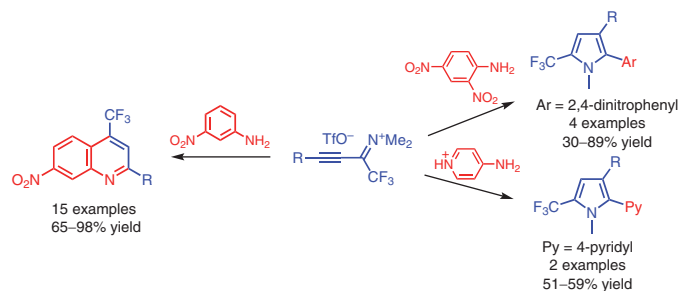
B. Seitz
T. Schneider
N. Majstorovic
M. Fleischmann
G. Maas*

Ulm University, Germany

Reactions of 1-Trifluoromethylprop-2-yne 1-Iminium Salts with Nitroanilines: Synthesis of 4-Trifluoromethylnitroquinolines and 1,2,3-Trisubstituted 5-Trifluoromethylpyrroles

Paper

2057



Synthesis

Synthesis 2022, 54, 2070–2080
DOI: 10.1055/a-1707-2924

N. Wiriya
M. Pattarawarapan
S. Yimklan
S. Hongsibsong
W. Phakhodee*

Chiang Mai University, Thailand

Phosphonium-Mediated Synthesis of a New Class of Indoloquinazoline Derivatives Bearing a C-12 Aryloxy Ester or Spiro- γ -lactone

Paper

2070

