

Synthesis

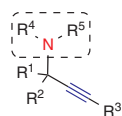
Recent Advances in Reactions of Propargylamines

Review

Synthesis **2020**, 52, 1–20
DOI: 10.1055/s-0039-1690684

X. Sheng
K. Chen
C. Shi
D. Huang*

Lishui University, P. R. of China



- (a) (as a leaving group)
- (b) hydrogenation
- (c) rearrangement
- (d) nucleophilic amines
- (e) nucleophilic carbons
- (f) electrophilic alkynes

1

Synthesis

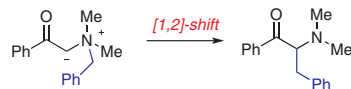
On the Mechanism of the Stevens Rearrangement

Short Review

Synthesis **2020**, 52, 21–26
DOI: 10.1055/s-0039-1690682

D. Baidilov*

Brock University, Canada



21

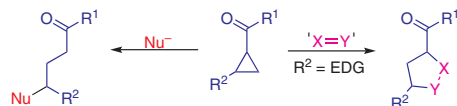
Synthesis

The Bonding and Reactivity of α -Carbonyl Cyclopropanes

Short Review

Synthesis **2020**, *52*, 27–39
DOI: 10.1055/s-0039-1690695

A. J. Craig*
B. C. Hawkins*
University of Otago,
New Zealand



27

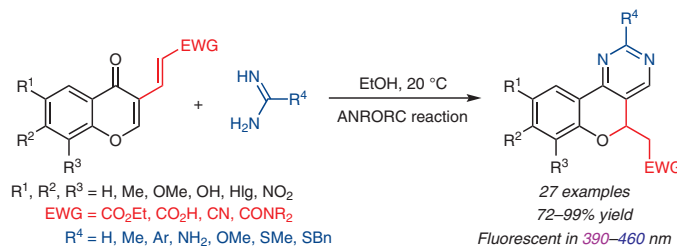
Synthesis

Convenient Synthesis of Fluorescent Chromeno[4,3-d]pyrimidines from Electron-Deficient 3-Vinylchromones

Feature

Synthesis **2020**, *52*, 40–50
DOI: 10.1055/s-0039-1690723

N. M. Chernov
R. V. Shutov*
A. E. Potapova
I. P. Yakovlev
Saint-Petersburg State Chemical
Pharmaceutical University,
Russian Federation



40

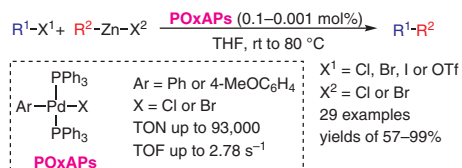
Synthesis

POxAP Precatalysts and the Negishi Cross-Coupling Reaction

Feature

Synthesis **2020**, *52*, 51–59
DOI: 10.1055/s-0039-1690728

S.-Q. Tang
M. Schmitt
F. Bihel*
Université de Strasbourg, France



51

Synthesis

Synthesis 2020, 52, 60–68
DOI: 10.1055/s-0039-1690725

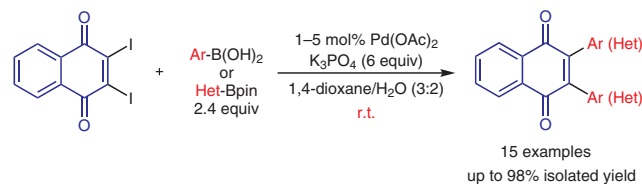
V. A. Migulin*

N. D. Zelinsky Institute of Organic Chemistry, Russian Federation

A New Synthetic Pathway to Symmetric Bisubstituted Naphthoquinones

Paper

60



Synthesis

Synthesis 2020, 52, 69–74
DOI: 10.1055/s-0039-1690712

Y.-Z. Ji

H.-J. Li*

Y. Liu

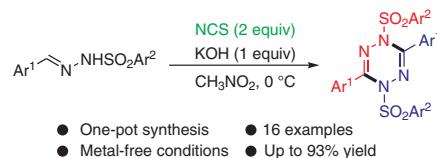
Y.-C. Wu*

Harbin Institute of Technology, P. R. of China
Weihai Institute of Marine Biomedical Industrial Technology, P. R. of China

Chlorination of Arylaldehyde-Derived Arylsulfonylhydrazones with N-Chlorosuccinimide Leading to 1,2,4,5-Tetrazine Derivatives

Paper

69



Synthesis

Synthesis 2020, 52, 75–84
DOI: 10.1055/s-0039-1690240

P. Sun

J. Yang

Z. Song

Y. Cai

Y. Liu

C. Chen*

X. Chen

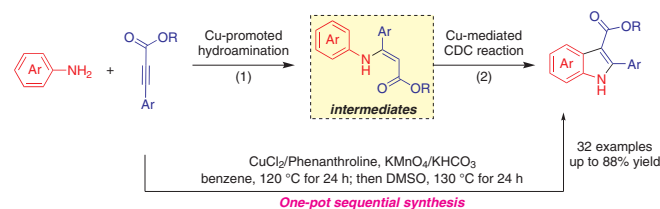
J. Peng*

Northeast Forestry University, P. R. of China

Copper-Mediated One-Pot Synthesis of Indoles through Sequential Hydroamination and Cross-Dehydrogenative Coupling Reaction

Paper

75



Synthesis

Synthesis 2020, 52, 85–97
DOI: 10.1055/s-0037-1610728

Q. D. Wei

Y.-M. Yao

S.-Q. Chang

W.-D. Yang

M.-Y. Tian

X.-L. Liu*

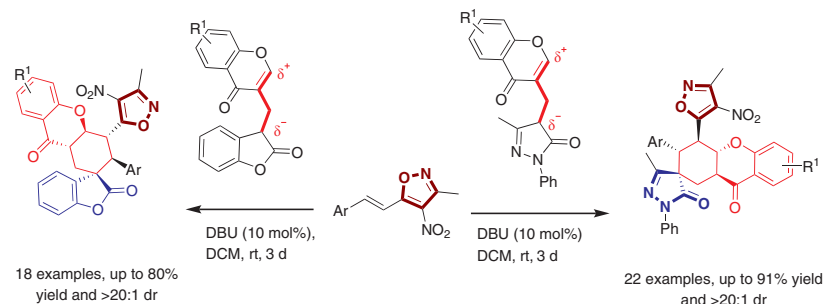
Y. Zhou

Guizhou University,
P. R. of China

DBU-Catalyzed Inter- and Intramolecular Double Michael Addition of Donor–Acceptor Chromone-Pyrazolone/Benzofuranone Synthons: Access to Spiro-Pyrazolone/Benzofuranone-Hexahydroxanthone Hybrids

Paper

85



diversity-oriented synthesis of spiro-pyrazolone/benzofuranone-hexahydroxanthone hybrids

Synthesis

Synthesis 2020, 52, 98–104
DOI: 10.1055/s-0039-1690230

A. S. Antonov*

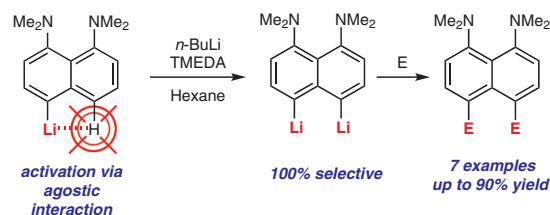
A. A. Yakubenko

St. Petersburg State University,
Russian Federation

Noncovalent Li...H Interaction in the Synthesis of *peri*-Disubstituted Naphthalene Proton Sponges

Paper

98



Synthesis

Synthesis 2020, 52, 105–118
DOI: 10.1055/s-0037-1610734

P. J. Lindsay-Scott*

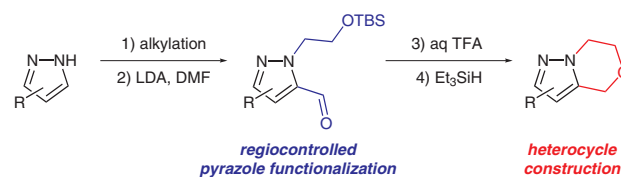
E. Rivlin-Derrick

Eli Lilly and Company Limited,
UK

Regiocontrolled Synthesis of 6,7-Dihydro-4*H*-pyrazolo-[5,1-*c*][1,4]oxazines

Paper

105



Synthesis

Synthesis 2020, 52, 119–126
DOI: 10.1055/s-0039-1690701

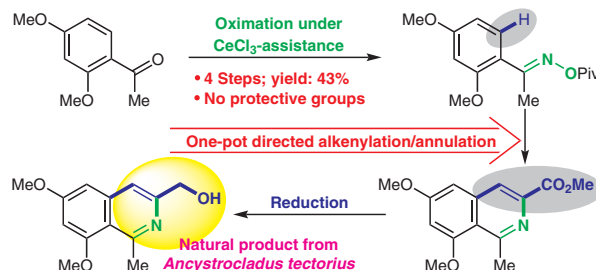
D. F. Vargas*
B. S. Romero
E. L. Larghi
T. S. Kaufman*

Instituto de Química Rosario
(IQUIR, CONICET-UNR),
Argentina
Universidad Nacional de Rosario,
Argentina

Rhodium(III)-Catalyzed C–H Activation-Based First Total Synthesis of 6-O-Methyl Ancistrochine, an Alkaloid Isolated from *Ancistrocladus tectorius*

Paper

119



Synthesis

Synthesis 2020, 52, 127–134
DOI: 10.1055/s-0037-1610731

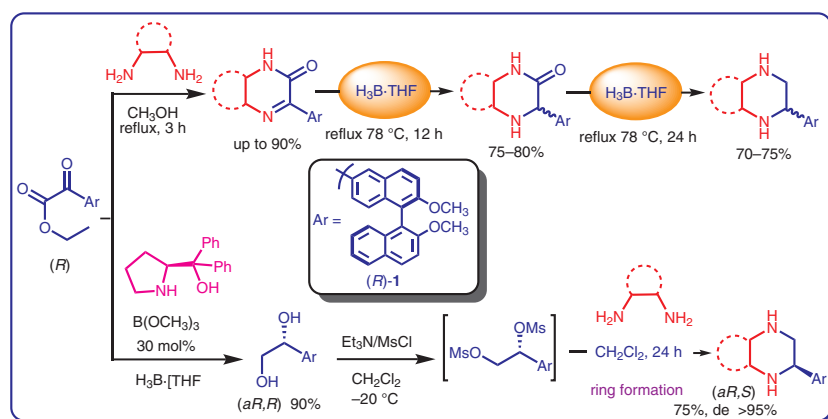
M. Periasamy*
B. Venkanna
M. Nagaraju
L. Mohan

University of Hyderabad, India

Methods for the Synthesis of Piperazine Derivatives Containing a Chiral Bi-2-naphthyl Moiety

Paper

127



Synthesis

Synthesis 2020, 52, 135–140
DOI: 10.1055/s-0039-1690214

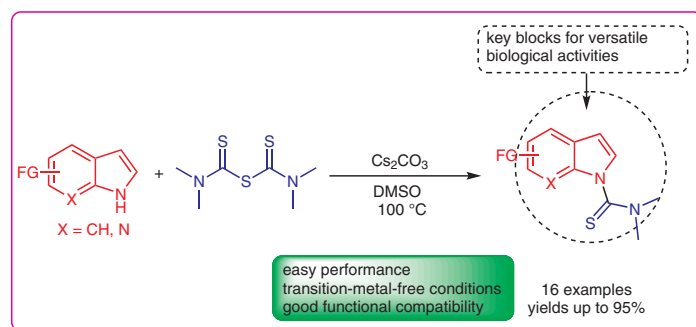
H.-Y. Peng
Y.-X. Wu
Z.-B. Dong*

Wuhan Institute of Technology,
P. R. of China
Hubei University, P. R. of China

 Cs_2CO_3 -Promoted $\text{C}(\text{sp}^2)$ -N Formation of Dimethyl Thiocarbamate-Protected Indoles Using Tetramethylthiuram Monosulfide (TMTM)

Paper

135



Synthesis

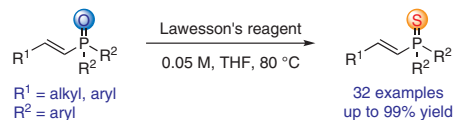
Synthesis of α,β -Unsaturated Phosphine Sulfides

Paper

Synthesis **2020**, *52*, 141–149
DOI: 10.1055/s-0039-1690685

X.-L. Wang
J.-X. Chen
X.-S. Jia*
L. Yin*

Shanghai University,
P. R. of China
Shanghai Institute of Organic
Chemistry, P. R. of China



141

Synthesis

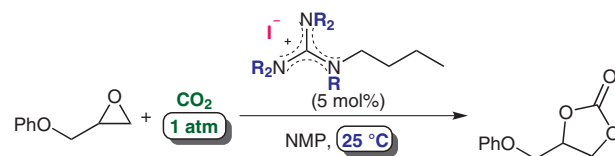
Efficient Catalysts of Acyclic Guanidinium Iodide for the Synthesis of Cyclic Carbonates from Carbon Dioxide and Epoxides under Mild Conditions

Paper

Synthesis **2020**, *52*, 150–158
DOI: 10.1055/s-0037-1610735

N. Aoyagi
Y. Furusho
T. Endo*

Kindai University, Japan



Catalyst: TBAI \leq R = Me \ll R = H
Yield: 17% \leq 21% \ll 77% (>99% at 45 °C)

150