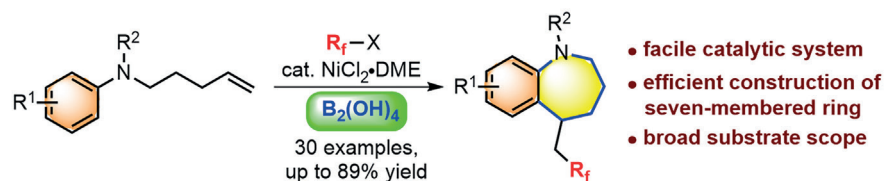


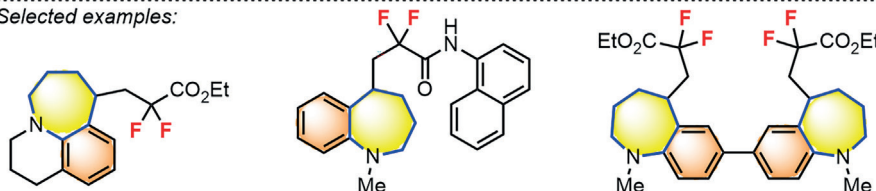
Synthesis

Reviews and Full Papers in Chemical Synthesis

September 1, 2023 • Vol. 55, 2609–2796



Selected examples:



A Nickel(II) Chloride and Tetrahydroxydiboron Cocatalyzed Facile Synthesis of Benzo[*b*]azepines with an Appended Fluorinated Side Chain

W. Lei, Y. Yang, M. Guo, W. Zhao, G. Wang

17

Synthesis

Transition-Metal-Catalyzed Synthesis of α -Chiral Allylsilanes

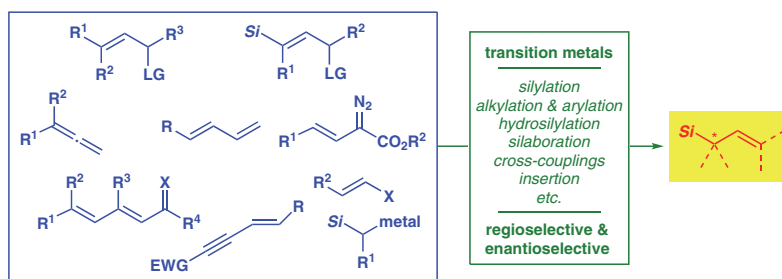
Review

2609

Synthesis 2023, 55, 2609–2638
DOI: 10.1055/s-0042-1751459

R. Pérez Sevillano
O. Jackowski*
F. Ferreira*

Sorbonne Université, France



Synthesis

Reactions of Benzylboronate Nucleophiles

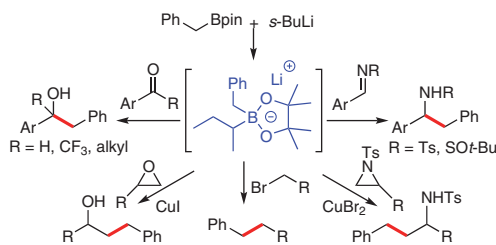
Short Review

2639

Synthesis 2023, 55, 2639–2647
DOI: 10.1055/a-2072-2754

T. J. Barker*
A. Bogatkevich
D. W. Crowder
S. G. Gierszal
J. C. Hayes
M. R. Hollerbach
R. W. Russell

College of Charleston, USA



Synthesis

Asymmetric Total Syntheses of Macroline-Type Alkaloids Alstomicine and Alstofoline A

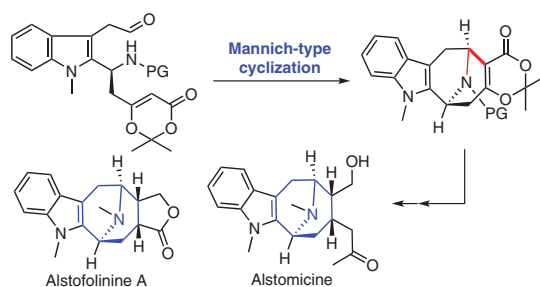
Feature

2648

Synthesis **2023**, *55*, 2648–2657
DOI: 10.1055/a-2091-3651

K. Wei
W. Hu
Y. Sun
T. Zhu
W. Chen*
H. Zhang*

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Synthesis

Synthesis of Stable Neutral Homoaromatic Hydrocarbons

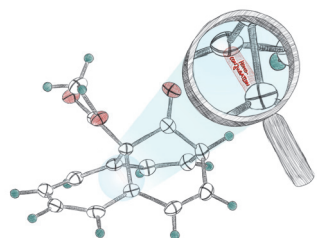
Feature

2658

Synthesis **2023**, *55*, 2658–2669
DOI: 10.1055/s-0042-1751468

T. Tran Ngoc
J. van der Welle
T. Ruffer
J. F. Teichert*

Technische Universität Chemnitz, Germany



- synthesis of stable neutral homoaromatics
- structural and spectroscopic characterization
- functionalization of homoaromatic framework

Synthesis

Practical Synthesis of Pent-4-yn-1-ol and Pent-4-en-1-ol from Tetrahydrofurfuryl Halides

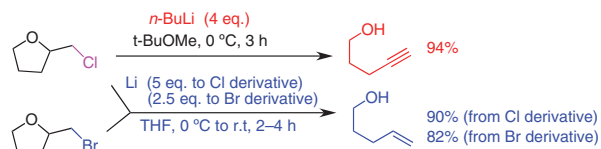
PSP

2670

Synthesis **2023**, *55*, 2670–2673
DOI: 10.1055/a-2088-1624

K. Saito
T. Sawazaki
O. Furusawa
T. Kosugi
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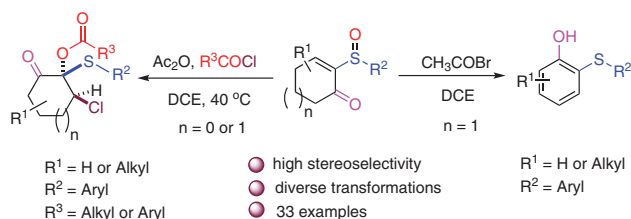
Synthesis

Synthesis **2023**, *55*, 2674–2682
DOI: 10.1055/a-2093-3233

X. Li
Q. Zhang
Y. Xie*
H. Zhou*

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Technology, P. R. of China
Jiaxing University, P. R. of China

Acylation of Electron-Poor Alkenyl Sulfoxides: Diverse Transformations for the Synthesis of Polysubstituted Phenols and Functionalized Carbo-



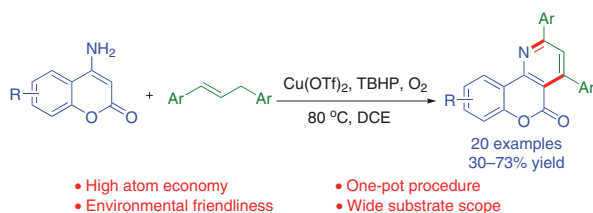
Synthesis

Synthesis **2023**, *55*, 2683–2690
DOI: 10.1055/a-2067-4099

D. Cheng*
H. Yang
H. Xia
H. Gu
J.-H. Li*
X. Xu*

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gy, P. R. of China

Cu(OTf)₂/TBHP/O₂-Mediated Tandem Oxidative Reaction: Easy Access to Benzopyrano[4,3-*b*]pyridines



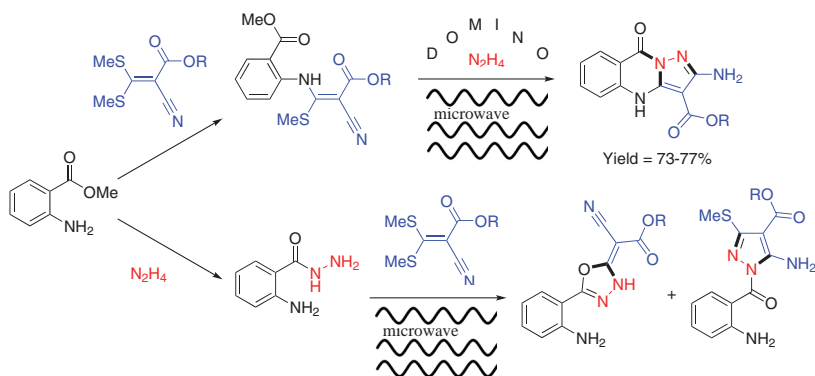
Synthesis

Synthesis **2023**, *55*, 2691–2701
DOI: 10.1055/a-2075-3140

J. H. Ng
F. P. Lim
E. R. Tiekink
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Malaysia

A New Domino Reaction under Microwave Irradiation for the Synthesis of Pyrazolo[5,1-*b*]quinazolinones



Synthesis

Synthesis **2023**, *55*, 2702–2712
DOI: 10.1055/a-2096-7045

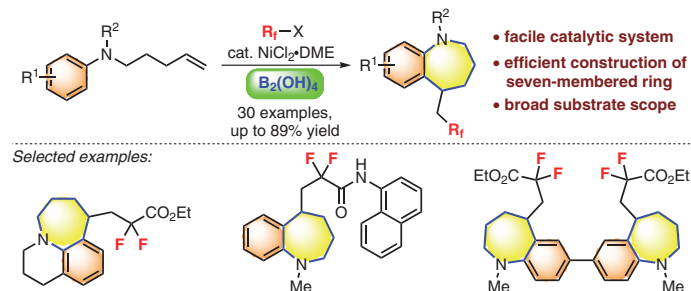
W. Lei
Y. Yang
M. Guo
W. Zhao*
G. Wang*

Tianjin University, P. R. of China

A Nickel(II) Chloride and Tetrahydroxydiboron Cocatalyzed Facile Synthesis of Benzo[*b*]azepines with an Appended Fluorinated Side Chain

Paper

2702



Synthesis

Synthesis **2023**, *55*, 2713–2729
DOI: 10.1055/a-2075-3258

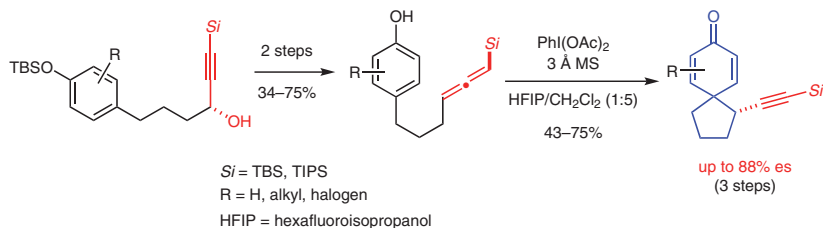
R. Kishimoto
Y. Iwakiri
K. Sakaguchi*
T. Nishimura

Osaka Metropolitan University,
Japan

Synthesis of Chiral Spiro[4.5]decadienones via Chirality-Transferring Oxidative Intramolecular Cyclization of Allenylsilane-Tethered Phenols

Paper

2713



Synthesis

Synthesis **2023**, *55*, 2730–2736
DOI: 10.1055/a-2085-3284

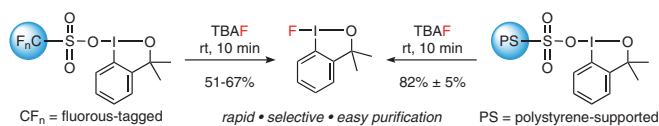
L. Racicot
J. F. Valliant*
G. K. Murphy*

University of Waterloo, Canada
McMaster University, Canada

Synthesis and Evaluation of Fluorous-Tagged and Polystyrene-Supported Precursors for Fluoro-benziodoxole

Paper

2730



Synthesis

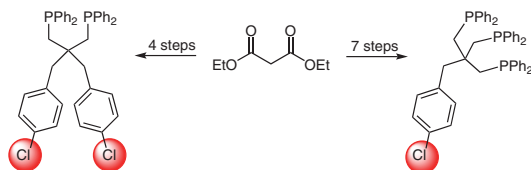
Synthesis **2023**, *55*, 2737–2741
DOI: 10.1055/a-2090-8316

A. Genoux
D. J. DiPrimio
S. J. Tereniak
P. L. Holland*
Yale University, USA

Synthesis of New Chelating Phosphines Containing an Aryl Chloride Group

Paper

2737



Synthesis

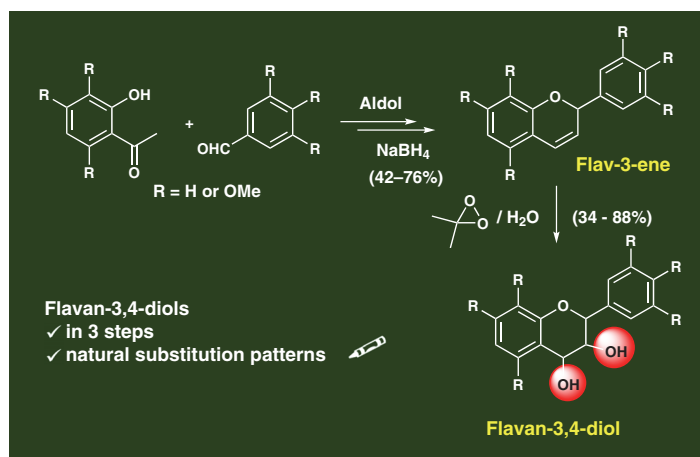
Synthesis **2023**, *55*, 2742–2756
DOI: 10.1055/s-0041-1738441

J. van Jaarsveldt
C. Marais
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Synthesis and Epoxidation of Flav-3-enes as Methodology for the Biomimetic Preparation of Flavan-3,4-diols

Paper

2742



Synthesis

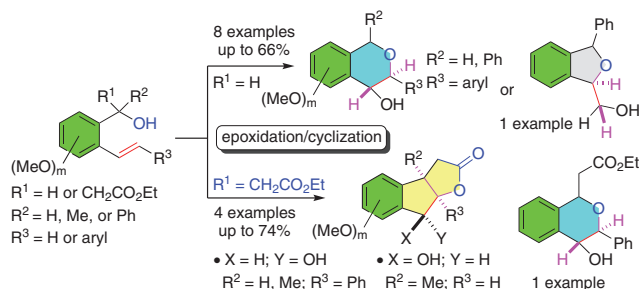
Synthesis **2023**, *55*, 2757–2772
DOI: 10.1055/s-0042-1751458

J. Jongcharoenkamol
K. Jancharoen
P. Batsomboon
S. Ruchirawat
P. Ploypradith*
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Thailand

Divergent Synthesis of Isochroman-4-ols, 1,3-Dihydroisobenzofurans, and Tetrahydro-2*H*-indeno[2,1-*b*]furan-2-ones via Epoxidation/Cyclization Strategy of (*E*)-(2-Stilbenyl/Styrenyl)methanols

Paper

2757



Synthesis

Synthesis 2023, 55, 2773–2778
DOI: 10.1055/a-2067-7071

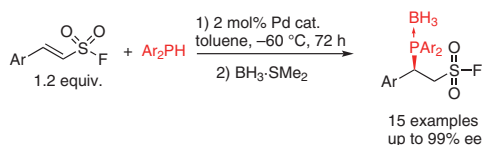
A.-Q. Cheng
Z.-H. Wu
H.-L. Yang
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Palladium-Catalyzed Asymmetric 1,4-Addition of Diarylphosphines to α,β -Unsaturated Sulfonyl Fluorides

Paper

2773



Synthesis

Synthesis 2023, 55, 2779–2785
DOI: 10.1055/a-2069-4269

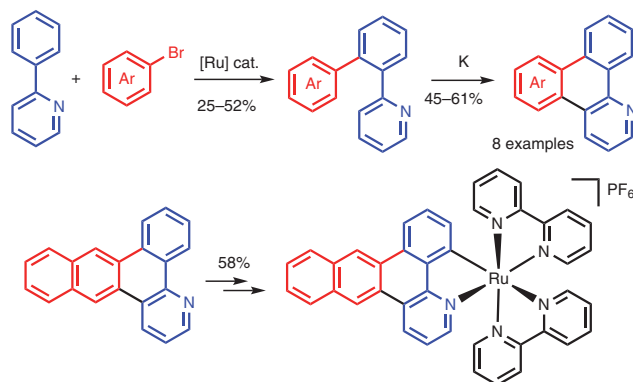
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Z.-Q. Li
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P. R. of China

Synthesis of Dibenzo[*f,h*]quinolines by Stepwise C–H Arylation of 2-Phenylpyridine and Reductive Cyclodehydrogenation

Paper

2779



Synthesis

Synthesis 2023, 55, 2786–2796
DOI: 10.1055/s-0042-1751455

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W.-S. Chung*

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Synthesis and Optical Resolution of Inherently Chiral Fluorescent Calix[4]arenes and Their Application in Chiral Recognition

Paper

2786

