

Synthesis

Synthesis 2023, 55, 1309–1321
DOI: 10.1055/a-2005-5006

X. Yan
J. Wang*

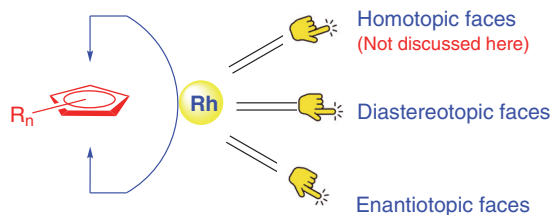
Sun Yat-Sen University,
P. R. China

Advances in Exploring Cyclopentadienyl (Cp) Rhodium Catalysts Featuring Diastereotopic or Enantiotopic Cp Faces for Asymmetric C–H Activation

Short Review

1309

Different Types of Chiral CpRh Catalysts for Asymmetric C–H Activation



Synthesis

Synthesis 2023, 55, 1322–1327
DOI: 10.1055/s-0042-1751422

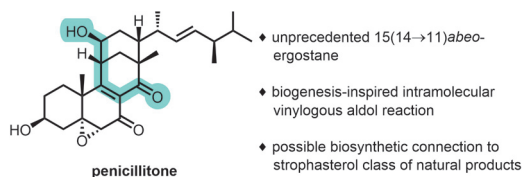
M. Bauer
P. Heretsch*

Leibniz Universität Hannover,
Germany

Biogenesis-Inspired Synthesis of Penicillitone

Feature

1322



Synthesis

Synthesis 2023, 55, 1328–1336
DOI: 10.1055/a-1981-2727

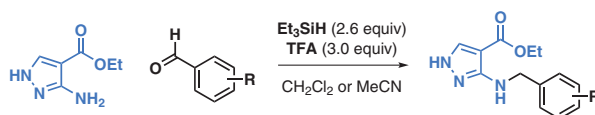
G. Schäfer*
S. Reber
M. Ahmetovic
T. Fleischer
D. Leuenberger
N. Blumer
M. Udry
S. Abele

Idorsia Pharmaceuticals Ltd.,
Switzerland

Robust and Scalable Reductive Amination Protocol for Electron-Poor Heterocyclic Amines Using Et_3SiH /TFA as Reducing Agent

Special Topic

1328



A scalable solution for challenging reductive aminations
 • robust on kg scale • mild reaction conditions • facile workup and isolation
 • applicable to many heterocyclic amines • works with aromatic and aliphatic aldehydes

Synthesis

Synthesis 2023, 55, 1337–1354
DOI: 10.1055/a-1938-2293

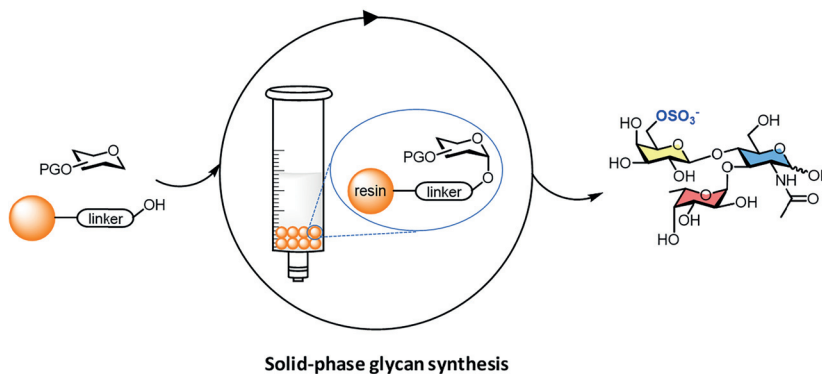
J.-Y. Huang
M. Delbianco*

Max Planck Institute of Colloids
and Interfaces, Germany

Recent Developments in Solid-Phase Glycan Synthesis

Special Topic

1337



Synthesis

Synthesis 2023, 55, 1355–1366
DOI: 10.1055/a-2008-9505

R. B. Kręćjasz
J. Malinčič
T. Šolomek*

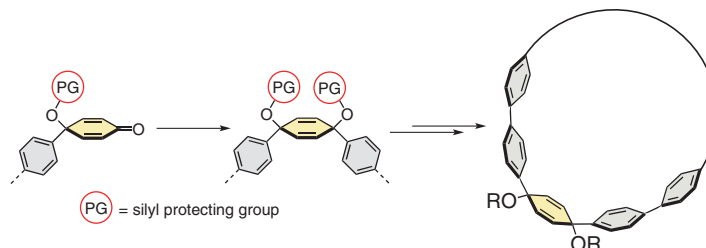
University of Amsterdam,
Netherlands
Prievidza Chemical Society,
Slovakia

Exploring Silyl Protecting Groups for the Synthesis of Carbon Nano hoops

Special Topic

OPEN ACCESS 1355

Novel protection strategy using robust silyl ethers



Synthesis

Photocatalytic Cleavage of Trityl Protected Thiols and Alcohols

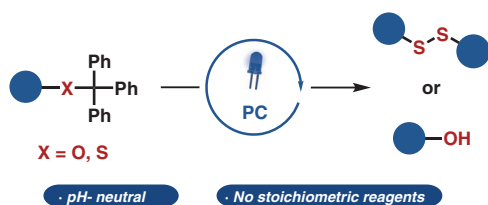
Special Topic

1367

Synthesis **2023**, 55, 1367–1374
DOI: 10.1055/a-1979-5933

S. Murakami
C. Brudy
M. Bachmann
Y. Takemoto
B. Pieber*

Max-Planck-Institute of Colloids
and Interfaces, Germany



Synthesis

Samarium and Ytterbium in Organic Electrosynthesis

Special Topic

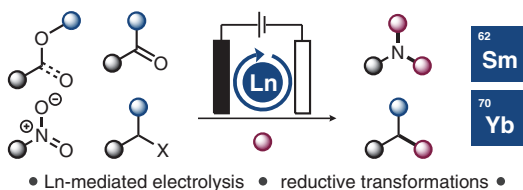
OPEN ACCESS

1375

Synthesis **2023**, 55, 1375–1384
DOI: 10.1055/a-1997-0939

J. L. Röckl
H. Lundberg*

KTH Royal Institute of Technology,
Sweden



Synthesis

Efficient and Scalable Syntheses of 1,2-Thiaselenane-4-amine and 1,2-Thiaselenane-5-amine

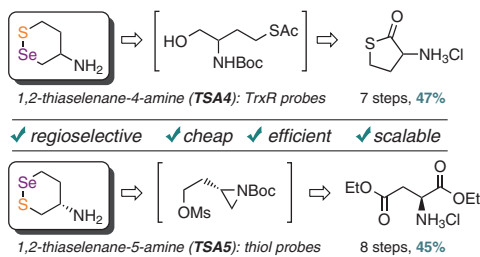
Special Topic

1385

Synthesis **2023**, 55, 1385–1393
DOI: 10.1055/a-2022-1398

L. Zeisel*
M. S. Maier
O. Thorn-Seshold*

Ludwig-Maximilians University
of Munich, Germany



Synthesis

Synthesis **2023**, *55*, 1394–1400
DOI: 10.1055/s-0042-1753402

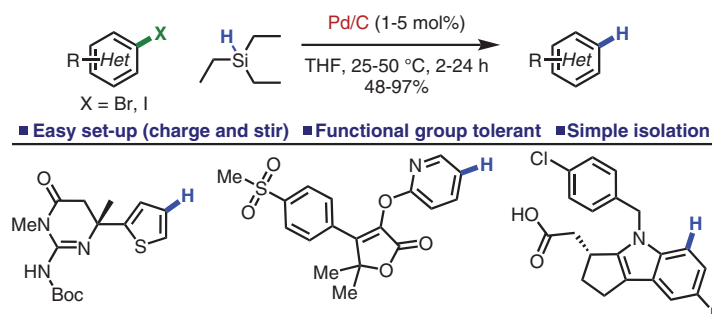
M. La Torre
W. Maton
E. Cleator
M. Jouffroy*

Janssen Pharmaceutica N.V.,
Belgium

Pd/C Catalyzed Dehalogenation of (Hetero)aryls Using Triethylsilane as Hydrogen Donor

Special Topic

1394



Synthesis

Synthesis **2023**, *55*, 1401–1409
DOI: 10.1055/a-2019-1532

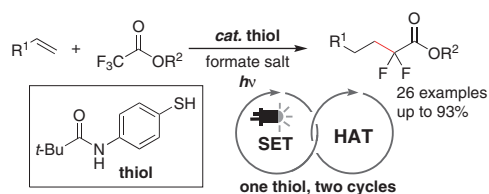
C. Liu
N. Shen
R. Shang*

University of Science and Technology of China, P. R. of China
The University of Tokyo, Japan

Photocatalytic Defluoroalkylation of Trifluoroacetates with Alkenes using 4-(Acetamido)thiophenol

Special Topic

1401



Synthesis

Synthesis **2023**, *55*, 1410–1418
DOI: 10.1055/s-0042-1751409

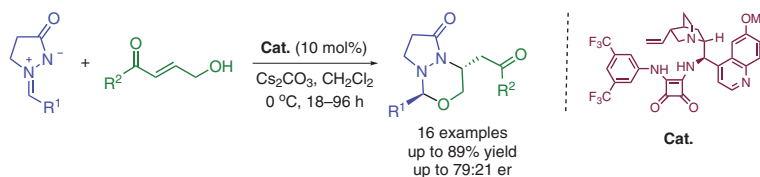
S. H. Kang
B. J. Park
S.-G. Kim*

Kyonggi University, Republic of
Korea

Enantioselective Synthesis of Diazobicyclic Oxadiazines via Organocatalytic [3+3]-Cycloaddition of γ -Hydroxy- α,β -Unsaturated Carbonyls with N,N' -Cyclic Azomethine Imines

Paper

1410



Synthesis

Synthesis **2023**, *55*, 1419–1426
DOI: 10.1055/a-1996-8388

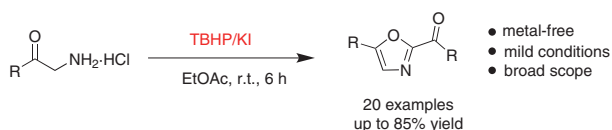
J. Zheng
D. Zhu
Z. Yang
H. Chen
W. Wang
L. L. Gan*
Z. Gan*

Chongqing Medical University,
P. R. of China
Chongqing Medical and Pharma-
ceutical College, P. R. of China

TBHP/KI-Promoted Oxidative Cyclization of α -Aminoketones for One-Pot Synthesis of Substituted 2-Acyloxazoles

Paper

1419



Synthesis

Synthesis **2023**, *55*, 1427–1440
DOI: 10.1055/a-1993-4132

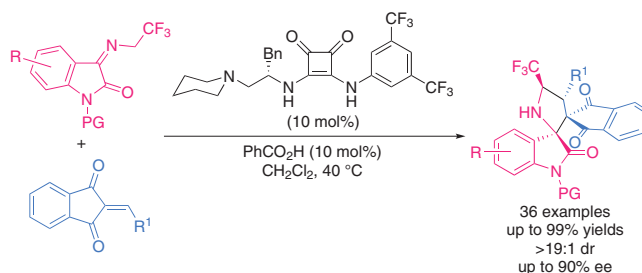
F. Li
Z. Li
Y. Wang
Z. Zhou*

Nankai University, P. R. China

Synthesis of Chiral Spiro[oxindole-3,2'-pyrrolidine] Derivatives Integrated with Spiro Indane-1,3-dione and Trifluoromethyl Group Pharmacophores via Organocatalyzed Asymmetric [3+2] Annulation

Paper

1427



Synthesis

Synthesis **2023**, *55*, 1441–1450
DOI: 10.1055/s-0042-1751406

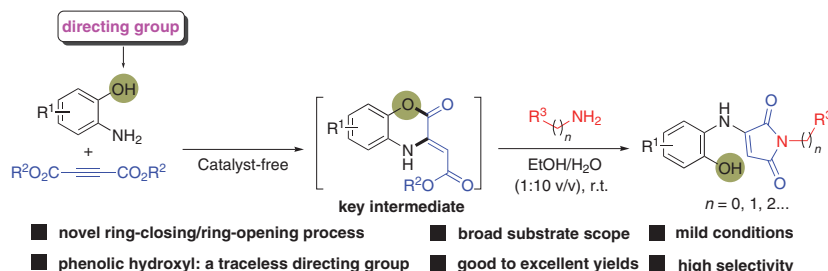
S. Huang
T. Liu*
J. Li
Q. Yang
S. Zhan
C. Huang*

Yunnan Minzu University,
P. R. of China
Qujing Normal University,
P. R. of China

A Novel Ring-Opening/Ring-Closing Cascade Reaction Selectively Induced by Aliphatic Primary Amine Using Phenolic Hydroxyl as a Traceless Directing Group

Paper

1441



Synthesis

Synthesis 2023, 55, 1451–1459
DOI: 10.1055/a-1988-5764

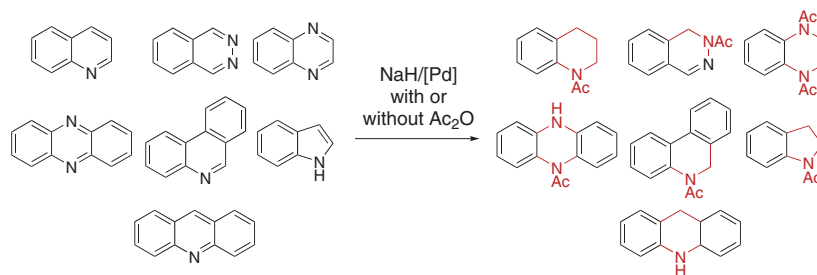
F. Luo
X. Chen
J. Yu
Y. Yin
X. Hu
Y. Hu*
X. Liu
X. Chen
S. Zhang*
Y. Hu*

Soochow University, P. R. China
Suzhou Vocational Health College, P. R. China

Palladium-Catalyzed Transfer Hydrogenation and Acetylation of *N*-Heteroarenes with Sodium Hydride as the Reductant

Paper

1451



Synthesis

Synthesis 2023, 55, 1460–1466
DOI: 10.1055/a-2003-3207

X. Chen
X.-Y. Zhou*

Liupanshui Normal University,
P. R. of China

Ruthenium-Catalyzed Regioselective Synthesis of C3-Alkylated Indoles Following Transfer Hydrogenation or Borrowing Hydrogen Strategy

Paper

1460

