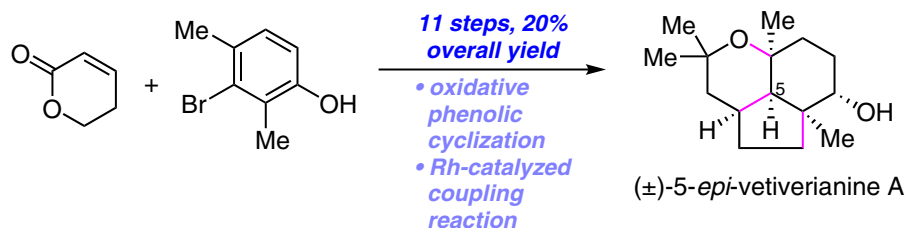


Synthesis

Reviews and Full Papers in Chemical Synthesis

February 15, 2023 • Vol. 55, 519–706



Synthesis of (±)-5-epi-Vetiverianine A via an Oxidative Cyclization Approach

E. Nagata, H. Sakate, T. Okada, S. Adachi, S. Kamo, A. Matsuzawa, K. Sugita

4

Synthesis

Recent Developments in Isoindole Chemistry

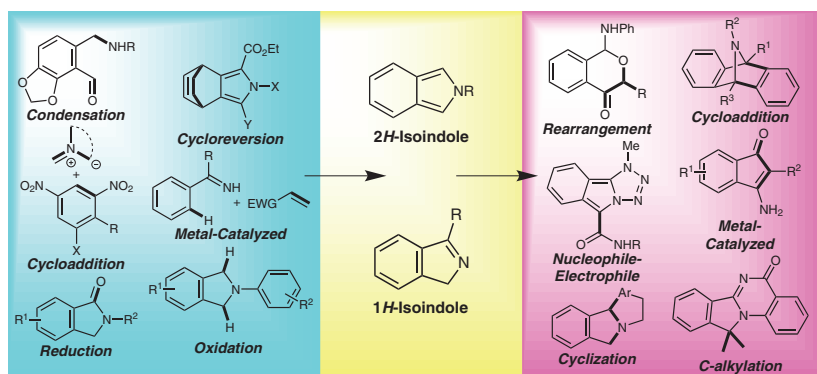
Review

Synthesis 2023, 55, 519–546
DOI: 10.1055/s-0042-1751384

R. A. Weintraub
X. Wang*

University of Colorado Boulder,
USA

519



Synthesis

Acceptorless Dehydrogenation of Aliphatics, Amines, and Alcohols with Homogeneous Catalytic Systems

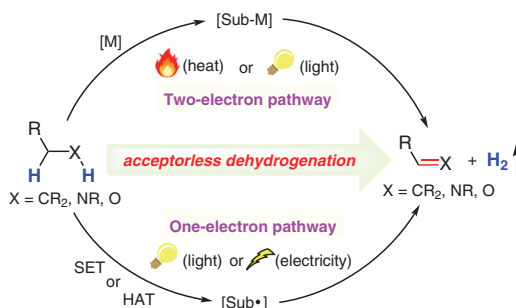
Short Review

Synthesis 2023, 55, 547–564
DOI: 10.1055/s-0042-1753053

M.-J. Zhou
G. Liu
C. Xu*
Z. Huang*

Shanghai Institute of Organic
Chemistry, P. R. of China
Southern University of Science
and Technology, P. R. of China
Hangzhou Institute of Advanced
Study, University of Chinese
Academy of Sciences,
P. R. of China

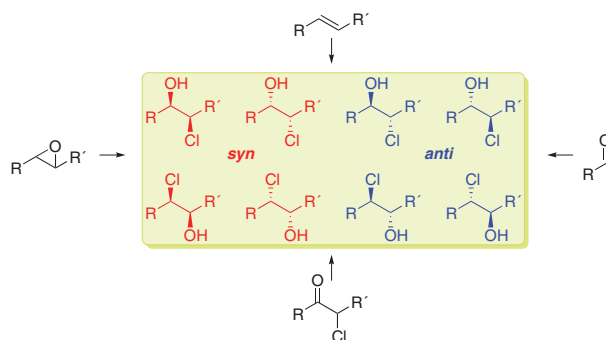
547



Synthesis 2023, 55, 565–579
DOI: 10.1055/s-0042-1751379

G. Hilt*

Universität Oldenburg, Germany



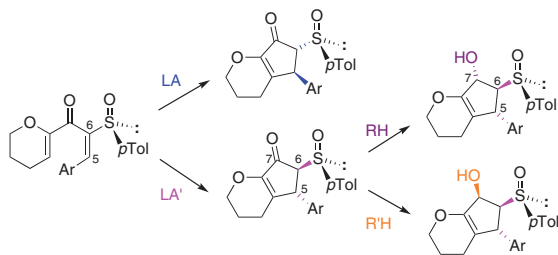
Synthesis 2023, 55, 580–597
DOI: 10.1055/a-1983-2140

E. Grenet

A. van der Lee

X. J. Salom-Roig*

Université de Montpellier, CNRS,
ENSCM, France



Synthesis 2023, 55, 598–608
DOI: 10.1055/a-1950-5110

T. Xavier

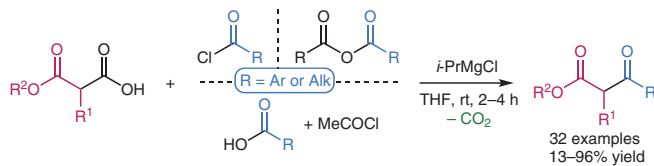
P. Tran

A. Gautreau

E. Le Gall

M. Presset*

Université Paris Est Créteil,
France



Synthesis

I₂/CH₃ONa-Promoted Ring-Opening Alkylation of Benzothiazoles with Dialkyl Carbonates

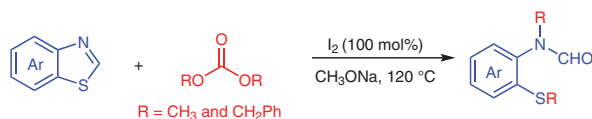
Paper

609

Synthesis 2023, 55, 609–616
DOI: 10.1055/s-0042-1752356

X. Li
J. He
J. Xie*
P. Liu*

Hunan University of Science and Engineering, P. R. of China
Shihezi University, P. R. of China



- Green, safe and cheap alkylating reagent
- Broad substrate scope
- Gram-scale synthesis
- Diversified transformations of products

Synthesis

Total Synthesis and Anti-inflammatory Activity of Stemoamide-Type Alkaloids Including Totally Substituted Butenolides and Pyrroles

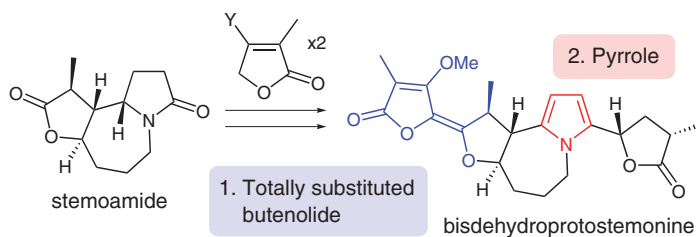
Paper

617

Synthesis 2023, 55, 617–636
DOI: 10.1055/a-1941-8680

Y. Soda, Y. Sugiyama,
S. Sato, K. Shibuya,
J. Saegusa, T. Matagawa,
S. Kawano, M. Yoritate,
K. Fukaya, D. Urabe,
T. Oishi, K. Mori,
S. Simizu, N. Chida,
T. Sato*

Keio University, Japan



SAR study of the anti-inflammatory activities

Synthesis

Room-Temperature, Transition-Metal-Free Arylation of Alcohols with Aryl Bromides

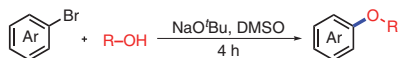
Paper

637

Synthesis 2023, 55, 637–646
DOI: 10.1055/a-1932-6146

D.-L. Zhu
J. Li
Q. Wu
Y. Wang*
D. J. Young*
H.-X. Li*

Yancheng Teachers University,
P. R. of China
Soochow University,
P. R. of China
Charles Darwin University,
Australia



- Transition-metal-free
 - Broad substrate scope
 - At room temperature
- 43 examples
up to 99% yield

Synthesis

Recyclable Palladium-Catalyzed Carbonylative Cyclization of Aryl Iodides and 2-Hydroxyacetophenones towards Flavones

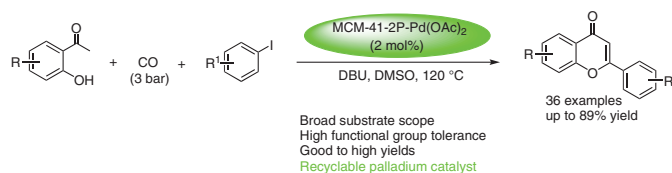
Paper

647

Synthesis 2023, 55, 647–656
DOI: 10.1055/s-0042-1753042

G. Xie
J. Zhan
M. Cai*
B. Huang*

Jiangxi Normal University,
P. R. of China



Synthesis

Convenient Synthesis of Ellagic Acid from Methyl Gallate and SARS-CoV-2 3CLpro Antiviral Activity

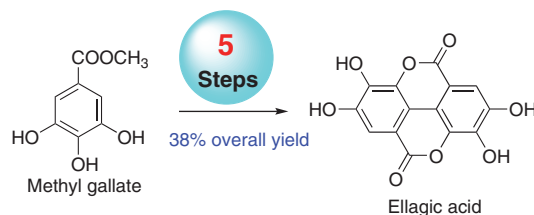
Paper

657

Synthesis 2023, 55, 657–662
DOI: 10.1055/a-1941-1437

F. Navarro
S. Hamri
R. Reches
M. Viñas
D. Jahani
J. Ginard
J. Vilardell
O. Abián
M. D. Pujol*

Universitat de Barcelona, Spain



Synthesis

Synthesis of (±)-5-*epi*-Vetiverianine A via an Oxidative Cyclization Approach

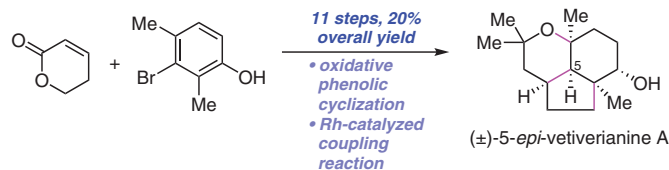
Paper

663

Synthesis 2023, 55, 663–669
DOI: 10.1055/a-1947-6049

E. Nagata
H. Sakate
T. Okada
S. Adachi
S. Kamo
A. Matsuzawa
K. Sugita*

Hoshi University, Japan



Synthesis

Synthesis 2023, 55, 670–682
DOI: 10.1055/a-1953-1656

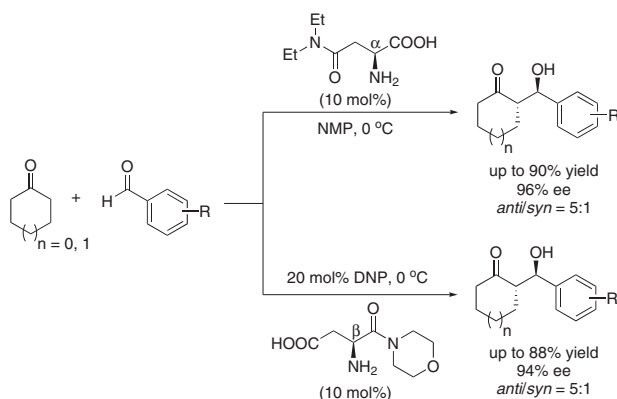
G.-F. Wen
R. Zhang
C.-Y. Zhang
C.-S. Da*

Lanzhou University,
P. R. of China

Both Amide-Bearing α - and β -Amino Acids from Natural Aspartic Acid Are Efficient Organocatalysts for Enantioselective Aldol Reactions

Paper

670



Synthesis

Synthesis 2023, 55, 683–691
DOI: 10.1055/a-1933-3655

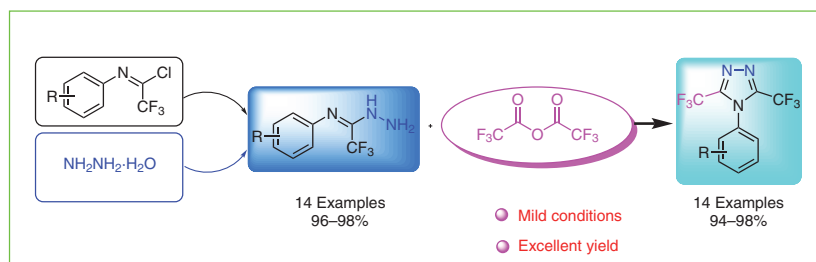
N. Zeinali
A. Darehkordi

Vali-e-Asr University of Rafsan-
jan, Iran

Trifluoromethylated Amidrazone Derivatives as Key Compounds for the Synthesis of 4-Aryl-3,5-bis(trifluoromethyl)-4H-1,2,4-triazoles

Paper

683



Synthesis

Synthesis 2023, 55, 692–706
DOI: 10.1055/s-0042-1751371

H. S. Steingruber
P. Mendioroz
M. J. Castro
M. A. Volpe
D. C. Gerbino*

Universidad Nacional del Sur,
Argentina

A Novel Palladium-Based Heterogeneous Catalyst for Tandem Annulation: A Strategy for Direct Synthesis of Acridones

Paper

692

