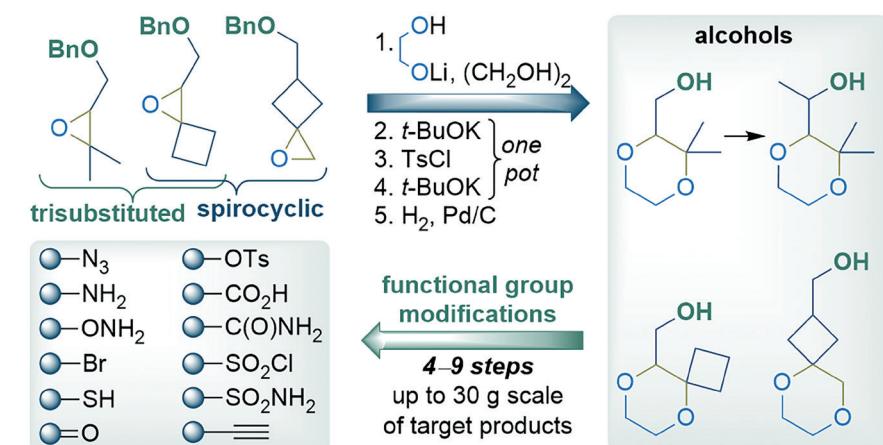


Synthesis

Reviews and Full Papers in Chemical Synthesis

October 18, 2023 • Vol. 55, 3209–3414



Synthesis of 2,2-Disubstituted and 2,2,3-Trisubstituted 1,4-Dioxane-Derived Building Blocks

A. V. Bondarenko, Y. K. Kozyriev, B. V. Vashchenko, O. O. Grygorenko

20



Thieme

Synthesis

Silyl Esters as Reactive Intermediates in Organic Synthesis

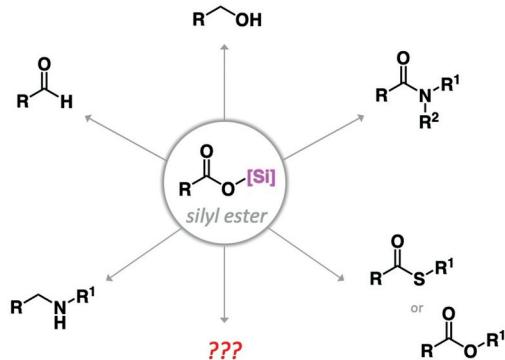
Review

3209

Synthesis 2023, 55, 3209–3238
DOI: 10.1055/a-2083-8591

M. C. D'Amaral
K. G. Andrews
R. Denton
M. J. Adler*

Toronto Metropolitan University,
Canada



Synthesis

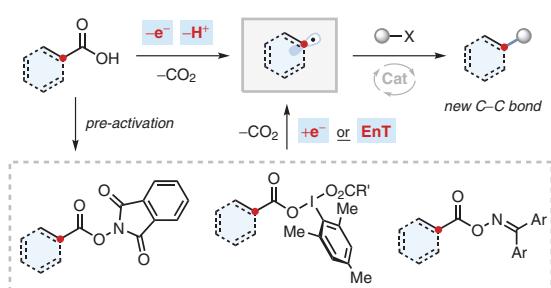
Decarboxylative, Radical C–C Bond Formation with Alkyl or Aryl Carboxylic Acids: Recent Advances

Short Review

OPEN **3239**
ACCESS

Synthesis 2023, 55, 3239–3250
DOI: 10.1055/a-2081-1830

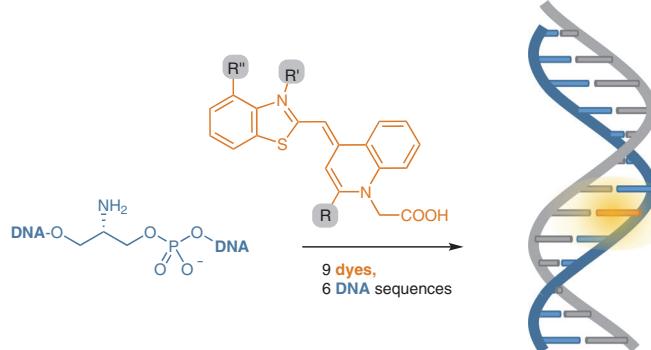
J. D. Tibbetts*
H. E. Askey
Q. Cao
J. D. Grayson
S. L. Hobson
G. D. Johnson
J. C. Turner-Dore
A. J. Cresswell*
University of Bath, UK



Synthesis 2023, 55, 3251–3262
DOI: 10.1055/a-2111-2333

A. Homer
O. Seitz*

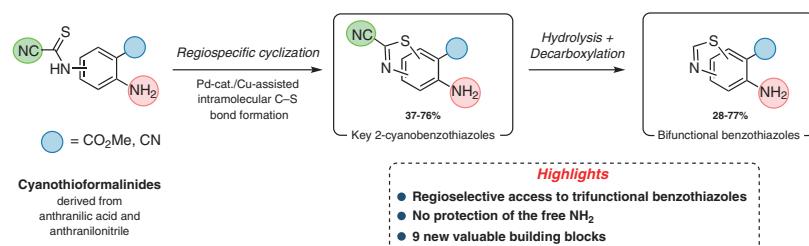
Humboldt-Universität zu Berlin,
Germany



Synthesis 2023, 55, 3263–3271
DOI: 10.1055/a-2086-3015

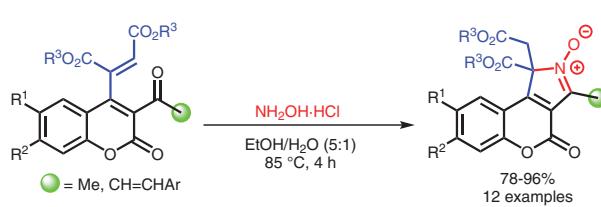
N. Broudic
A. Pacheco-Benichou
C. Fruit
T. Besson*

Univ Rouen Normandie, France



Synthesis 2023, 55, 3272–3280
DOI: 10.1055/s-0042-1751976

A. Alizadeh*
A. Rostampoor
H. Hasanpour
Tarbiat Modares University, Iran

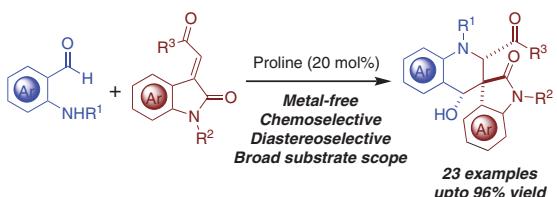


- Available starting materials used
- Chemoselective reaction
- Mild reaction conditions
- Metal-free procedure
- HAC as NO source
- GAP chemistry

D. Enagandhula

R. Adepu*

P. S. Mainkar*

CSIR-Indian Institute of Chemical Technology, India
Academy of Scientific and Innovative Research (AcSIR), India

W. H. García-Santos

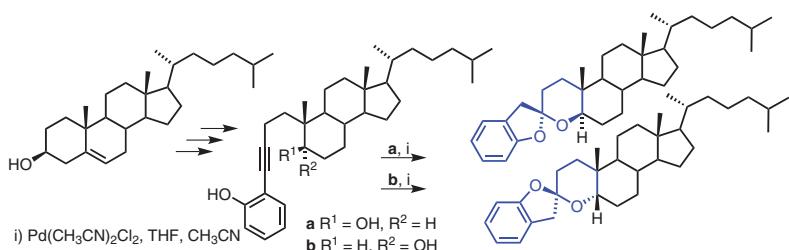
A. M. Quiroz-Mendoza

M. C. Mayorquín-Torres

M. Flores-Álamo

M. A. Iglesias-Arteaga*

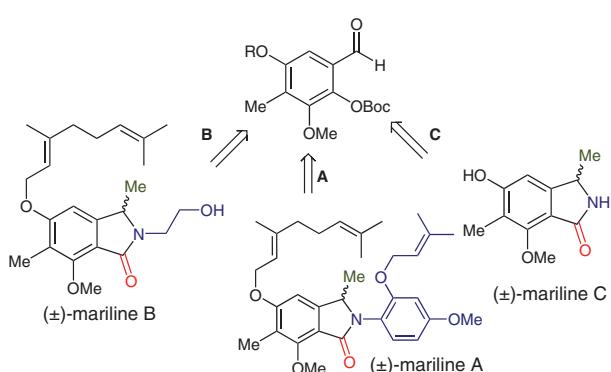
Universidad Nacional Autónoma de México, México



Y. F. Wong

T. R. Pettus*

University of California at Santa Barbara, USA



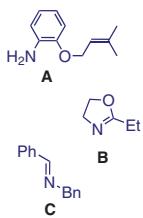
planned conditions:

MeMgCl

nitrogen nucleophile (A–C)

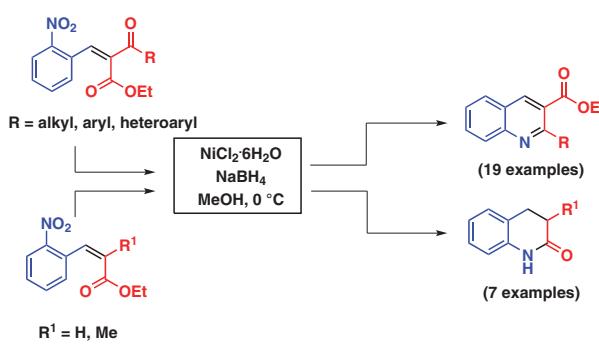
CO/Pd⁰

1–2 additional steps



R. Sarkar
S. K. Samanta
A. M. Menon
D. Chopra
D. Ganguly
M. K. Bera*

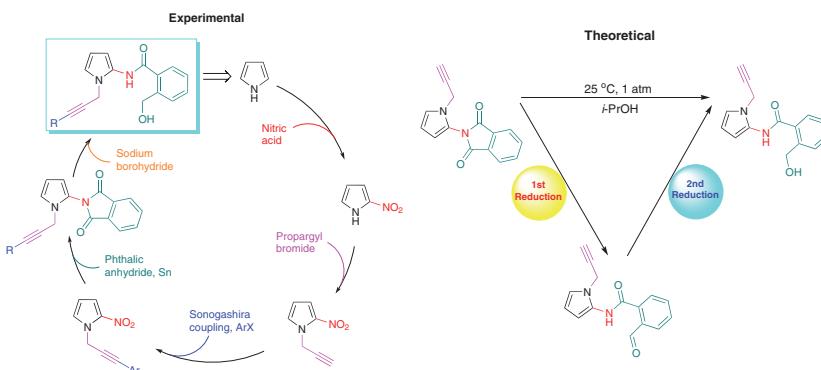
Indian Institute of Engineering Science and Technology (IIEST),
Shibpur, India



Synthesis 2023, 55, 3315–3328
DOI: 10.1055/s-0042-1751483

S. Basceken*

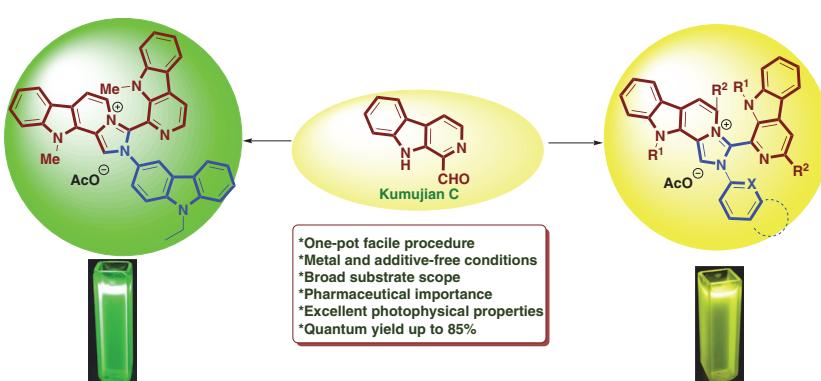
Hitit University, Turkey



Synthesis 2023, 55, 3329–3341
DOI: 10.1055/s-0041-1738447

M. Singh
Vaishali
Deepika
Jyoti
S. Sharma
N. Banyal
P. Kumar
B. Budhalakoti
C. C. Malakar
V. Singh*

Dr B R Ambedkar National Institute of Technology (NIT) Jalandhar, India
Central University of Punjab, India



Synthesis 2023, 55, 3342–3348
DOI: 10.1055/a-2131-0116

Y. Sato

T. Ukei

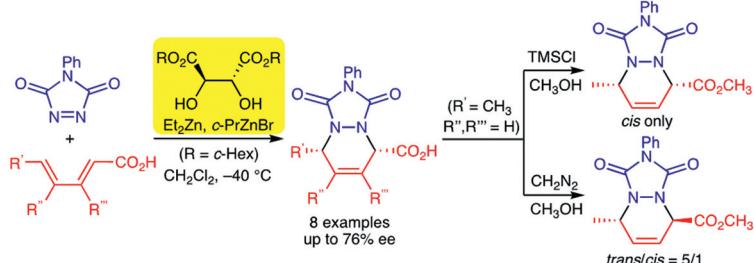
H. Tsugeno

T. Suga

T. Soeta

Y. Ukaji*

Kanazawa University, Japan



Synthesis 2023, 55, 3349–3363
DOI: 10.1055/a-2105-2774

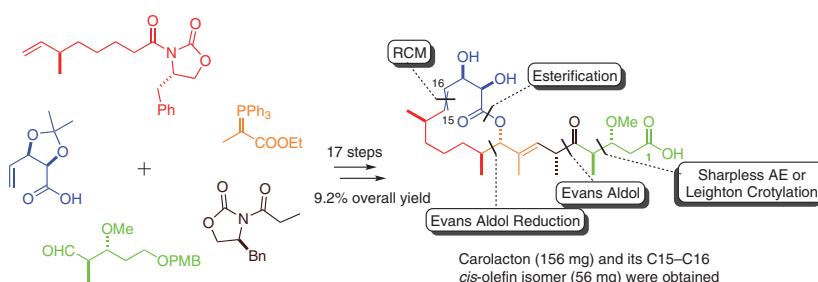
C.-C. Bian

Y.-Q. Li

H.-r. Yang

X.-M. Yu*

Peking Union Medical College & Chinese Academy of Medical Sciences, P. R. of China



Synthesis 2023, 55, 3364–3372
DOI: 10.1055/a-2147-2620

X. Zhang

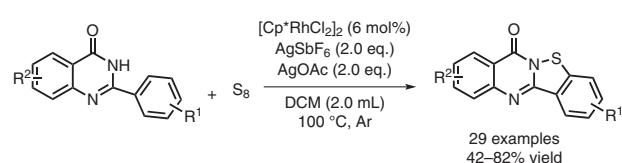
Q. Wu

Q. Yang

Y. Fu

Y. Peng*

Jiangxi Normal University, P. R. of China



Synthesis

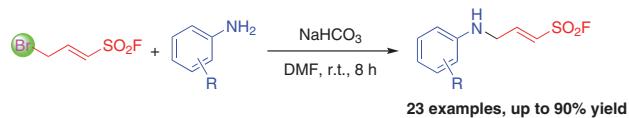
Synthesis 2023, 55, 3373–3381
DOI: 10.1055/s-0041-1738449

A General Protocol for the Chemo- and Stereoselective Construction of α,β -Unsaturated γ -Amino Sulfonyl Fluorides**Paper**

3373

X.-F. Tao
H.-L. Qin*

Wuhan University of Technology, P. R. of China



- ★ Easy work-up
- ★ Gram-scale
- ★ Broad functional group compatibility
- ★ Mild conditions
- ★ Drug modification
- ★ Excellent chemo- and stereoselectivity

Synthesis

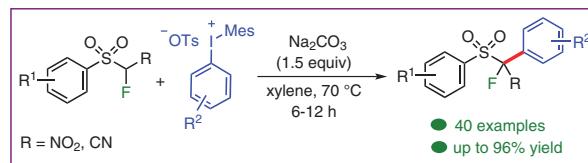
Synthesis 2023, 55, 3382–3392
DOI: 10.1055/a-2109-1419

Efficient α -Arylation of α -Fluoro- α -nitrosulfonylmethanes Employing Diaryliodonium Salts**Paper**

3382

M. K. Zaheer
N. K. Vaishnav
A. Kumar
S. Mishra
R. Kant
K. Mohanan*

CSIR-Central Drug Research Institute, India

**Synthesis**

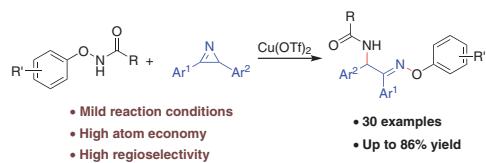
Synthesis 2023, 55, 3393–3401
DOI: 10.1055/a-2096-4223

Copper-Catalyzed Coupling of *N*-Phenoxyacetamides and 2*H*-Azirines for Synthesis of α -Amino Oxime Ethers**Paper**

3393

Y.-L. Zhu*
J. Yan
X.-X. Xu
Z.-Y. Sun
J. Chen*

Heze University, P. R. China
Northwest University, P. R. China



A. V. Bondarenko
 Y. K. Kozyriev
 B. V. Vashchenko*
 O. O. Gryorenko
 Enamine Ltd., Ukraine

Synthesis of 2,2-Disubstituted and 2,2,3-Trisubstituted 1,4-Dioxane-Derived Building Blocks

