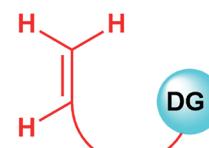


Synthesis

Reviews and Full Papers in Chemical Synthesis

July 2, 2024 • Vol. 56, 1967–2144



[Pd] catalyst, ArI
one-pot consecutive triple arylation

- native **Directing Group** (aldehyde, ketone, ester)
- one-pot synthesis
- mild conditions, simple operations
- moderate yields

Remote-Carbonyl-Directed Consecutive Arylation of Terminal Alkenes
for the Synthesis of Tetrasubstituted Olefins

K. Li, R. Luan, Y. Du, W. Su

13



Thieme

Synthesis

Photoinduced Ligand-to-Metal Charge Transfer in Base-Metal Catalysis

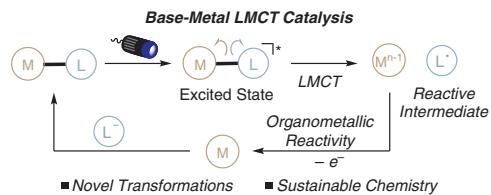
Review

1967

Synthesis 2024, 56, 1967–1978
DOI: 10.1055/s-0042-1751518

S. M. Treacy
T. Rovis*

Columbia University, USA



Synthesis

Recent Progress on the Zweifel Olefination: An Update

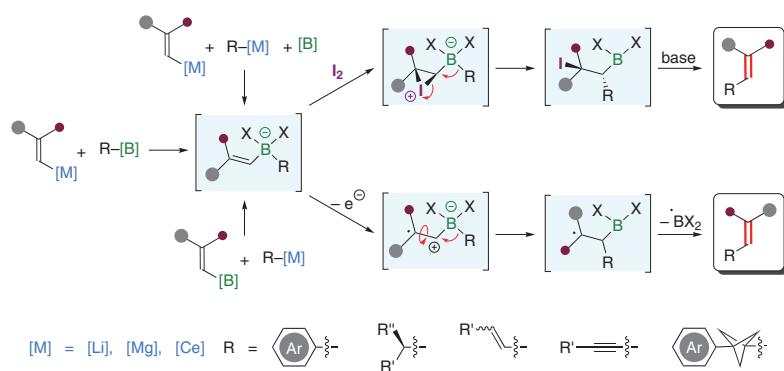
Short Review

1979

Synthesis 2024, 56, 1979–1988
DOI: 10.1055/a-2172-1386

X. Li
Q. Song*

Fuzhou University, P. R. of China



✓ Efficient ✓ Versatile ✓ Flexible ✓ Stereospecific ✓ Transition-metal-free

Synthesis

Synthesis 2024, 56, 1989–1998
DOI: 10.1055/a-2323-0633

Remote-Carbonyl-Directed Consecutive Arylation of Terminal Alkenes for the Synthesis of Tetrasubstituted Olefins**Feature**

1989

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R. Luan
Y. Du*
W. Su*

Fujian Normal University,
P. R. of China



- native **Directing Group** (aldehyde, ketone, ester)
- one-pot synthesis
- mild conditions, simple operations
- moderate yields

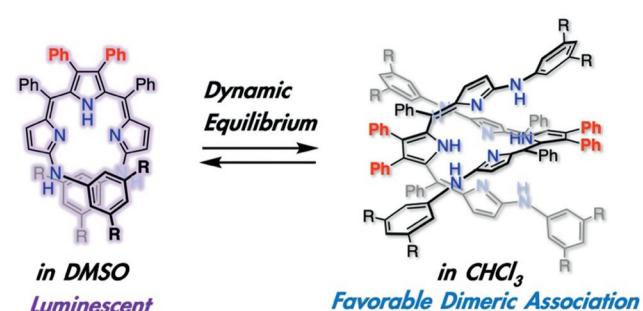
Synthesis

Synthesis 2024, 56, 1999–2004
DOI: 10.1055/a-2314-1715

Synthesis and Dynamic Behaviors of 5,7,8,10-Tetraphenyl-1,14-dianilinotripyrrins**Paper**

1999

A. Nishiyama
Y. Matsuo
S. Seki*
T. Tanaka*
Kyoto University, Japan

**Synthesis**

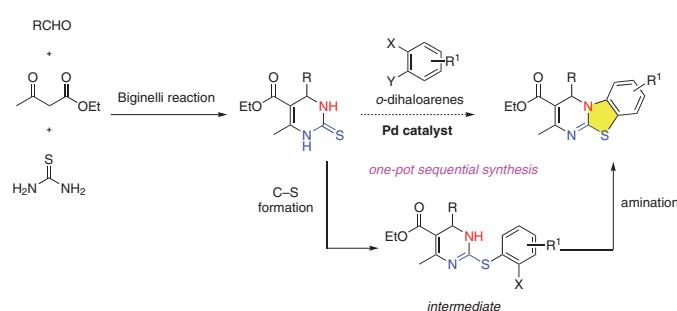
Synthesis 2024, 56, 2005–2014
DOI: 10.1055/a-2311-3930

Pd-Catalyzed Regioselective Tandem C-S/C-N Bond Formation for Modular Synthesis of Pyrimidine-Fused Benzothiazoles from o-Dihaloarenes and 3,4-Dihydropyrimidin-2-thiones**Paper**

2005

X. Hu
R. Liu
S. Fu
L. Shi
C. Chen*
J. Peng*

Northeast Forestry University,
P. R. of China



Synthesis

Synthesis 2024, 56, 2015–2024
DOI: 10.1055/s-0040-1720121

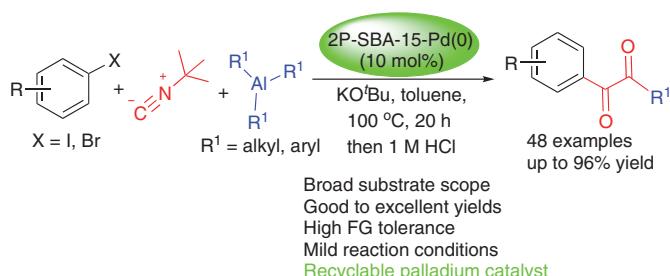
Recyclable Palladium-Catalyzed Carbonylative Coupling of Aryl Halides and Organoaluminum Compounds with *tert*-Butyl Isocyanide as CO Equivalent Leading to 1,2-Diketones

Paper

2015

Z. Tu**J. Zhan****S. You*****M. Cai***

Jiangxi Normal University,
P. R. of China
Jiangxi Academy of Sciences,
P. R. of China

**Synthesis**

Base-Mediated Synthesis of 2-Bromobenzoheterocycles

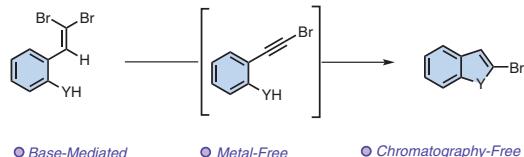
Paper

2025

Synthesis 2024, 56, 2025–2030
DOI: 10.1055/s-0042-1751577

R. Arora**S. Li****M. Stommer****B. Mirabi****M. Lautens***

University of Toronto, Canada

**Synthesis**

Palladium Nano-Dispersed and Stabilized in Organically Modified Silicate as a Heterogeneous Catalyst for the Conversion of Aldehydes into O-Silyl Ether Derivatives under Neat Conditions

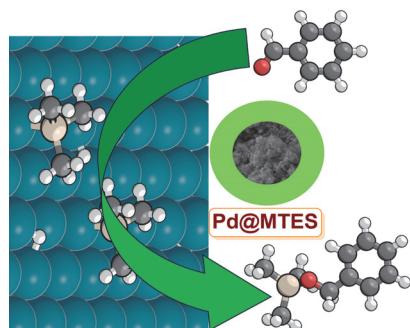
Paper

2031

Synthesis 2024, 56, 2031–2046
DOI: 10.1055/a-2326-6277

C. M. Matherne**J. E. Wroblewski****H. S. Drago****G. T. Marchan****A. R. Young****N. Kingsley****C. P. Plaisance****J. Fotie***

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USA



Synthesis 2024, 56, 2047–2058
DOI: 10.1055/a-2282-7702

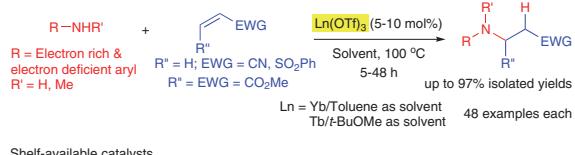
R. Rajesh

O. K. Sandhya

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R. Kunjanpillai*

St. Albert's College (Autonomous), India



Synthesis 2024, 56, 2059–2065
DOI: 10.1055/s-0043-1774861

H. Ming

D. He

S. Si

C. Xu

Y. Yuan

X. Tian

Z. Hu

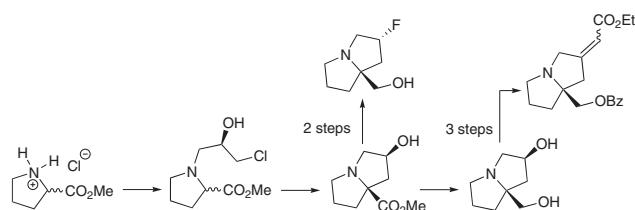
S. Li

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F. Huang*

Y.-L. Chen*

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Co., Ltd, P. R. of China



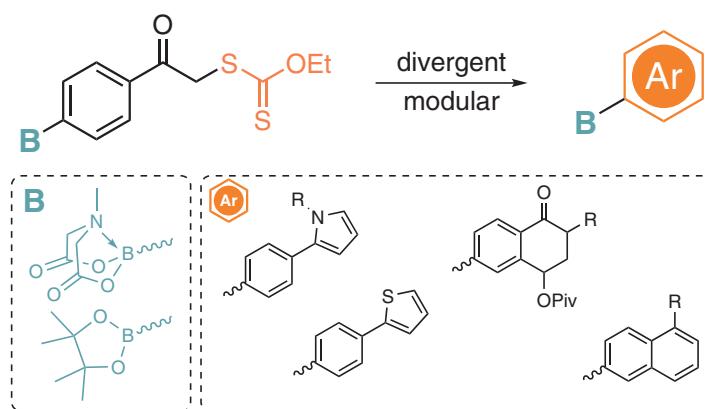
Synthesis 2024, 56, 2066–2076
DOI: 10.1055/a-2314-1877

C. He

X. Pan*

S. Z. Zard*

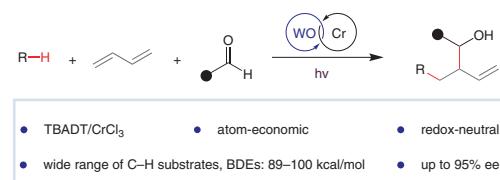
Fudan University, P. R. of China
Ecole Polytechnique, France



Synthesis 2024, 56, 2077–2083
DOI: 10.1055/a-2328-3037

D. Ding
P.-S. Wang*

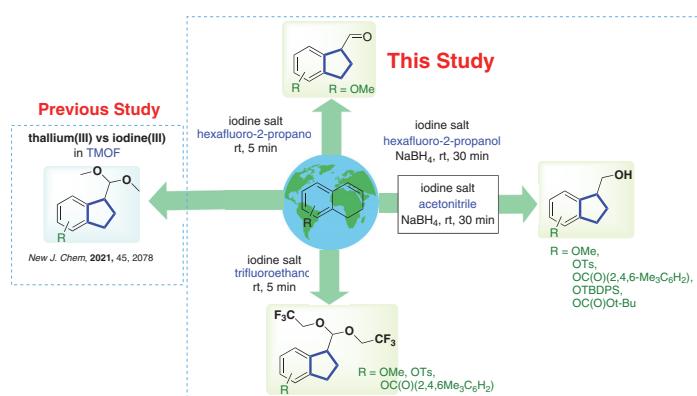
University of Science and Technology of China, P. R. of China



Synthesis 2024, 56, 2084–2092
DOI: 10.1055/s-0043-1774905

A. Khan*
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Synthesis 2024, 56, 2093–2099
DOI: 10.1055/s-0043-1763758

T. Frazier
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F. Anizon*
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France



A. L. Shatsauskas

S. A. Kirnosov

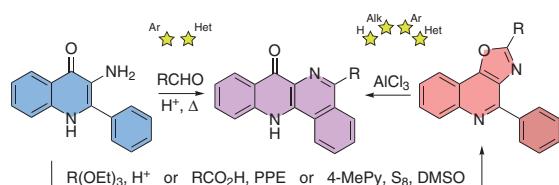
E. S. Keyn

V. Y. Shuvalov

A. S. Kostyuchenko

A. S. Fisyuk*

Dostoevsky Omsk State University, Russian Federation

Synthesis of Dibenzo[*b,h*][1,5]naphthyridin-7(12*H*)-ones: The Pictet-Spengler Reaction versus a Rearrangement of 4-Phenyl[1,3]oxazo[4,5-*c*]quinolines

A. Koyanagi

Y. Murata*

C. Takeshita

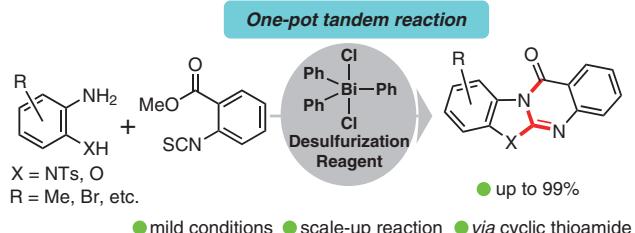
Y. Kato

M. Matsumura

S. Yasuike*

Aichi Gakuin University, Japan

Synthesis of Tetracyclic Benzazole–Condensed Quinazolinones through Triphenylbismuth Dichloride Assisted Cyclodesulfurization



X. He

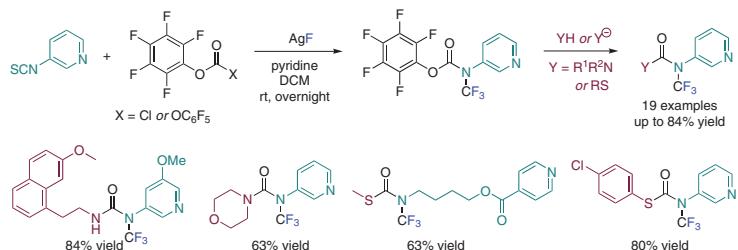
L. Deng

Y. You

Y. Lai

J. Liu*

The First Affiliated Hospital of Sun Yat-sen University, P. R. of China

Synthesis of *N*-Trifluoromethyl Thiocarbamates and Ureas from 3-Aminopyridine-Derived Carbamates

H. Yoneyama

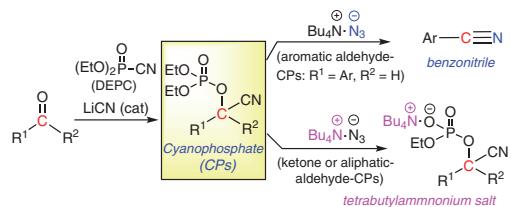
A. Okada

N. Hayama

S. Harusawa

Y. Usami

Osaka Medical and Pharmaceutical University, Japan



S. Liu

X. Li

X. Wang

L. Xu*

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