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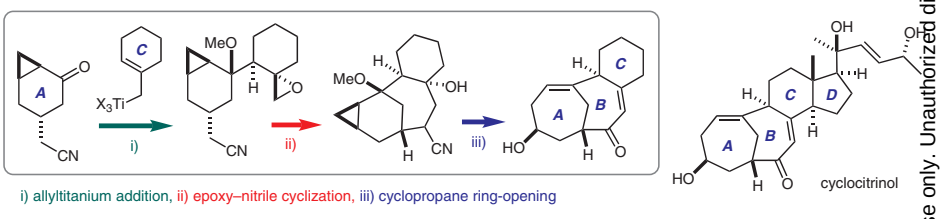
Accounts and Rapid Communications in Chemical Synthesis

April 22, 2021 • Vol. 32, 641–742



i) allyltitanium addition, ii) epoxy–nitrile cyclization, iii) cyclopropane ring-opening

Synthetic Studies on Cyclocitrinol: Construction of the ABC Ring System Based on Epoxy–Nitrile Cyclization

K. Sato, K. Tanino

7

Thieme

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in Chemical Synthesis

2020
Vol. 32, No. 7
April II

Synlett

C–O Bond Activation as a Strategy in Palladium-Catalyzed Cross-Coupling

Synpacts

641

Synlett **2021**, *32*, 641–646
DOI: 10.1055/a-1306-3228

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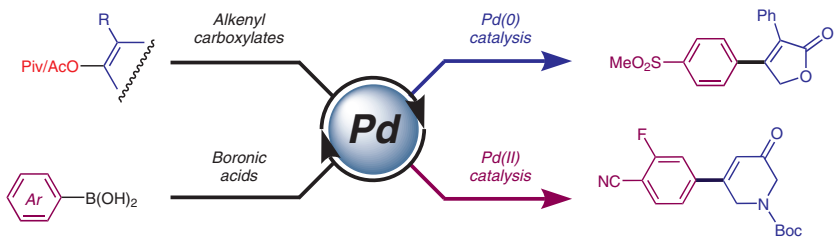
D. C. Leitch*
University of Victoria, Canada



- C–O activation at Pd(0) and Pd(II)
- Catalysis at rt, air/water tolerant

- Cross-coupling with arylboronic acids
- New pool of electrophiles for Pd catalysis

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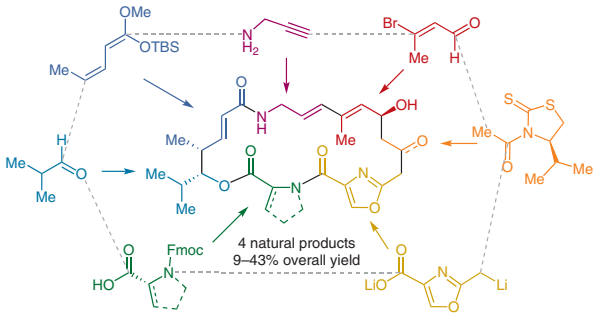
Modular Synthesis of Streptogramin Antibiotics

Synpacts

647

Synlett **2021**, *32*, 647–654
DOI: 10.1055/a-1293-9655

Q. Li*
I. B. Seiple
University of California, USA



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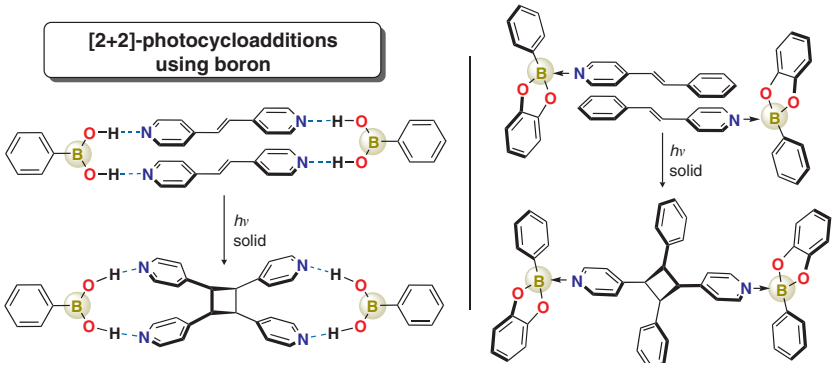
Synlett **2021**, *32*, 655–662
DOI: 10.1055/s-0040-1707297

G. Campillo-Alvarado
L. R. MacGillivray*
University of Iowa, USA

Opportunities Using Boron to Direct Reactivity in the Organic Solid State

Account

655



Synlett

Synlett **2021**, *32*, 663–673
DOI: 10.1055/s-0040-1706480

D.-X. Tan
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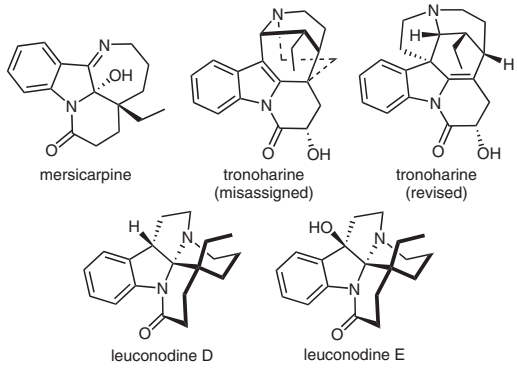
Changchun Institute of Applied Chemistry, P. R. of China
University of Science and Technology of China, P. R. of China

Synthetic Studies towards the Total Synthesis of Indole Alkaloids Containing Indolyl Lactam Frameworks

Account

663



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Synlett **2021**, *32*, 674–678
DOI: 10.1055/a-1334-6100

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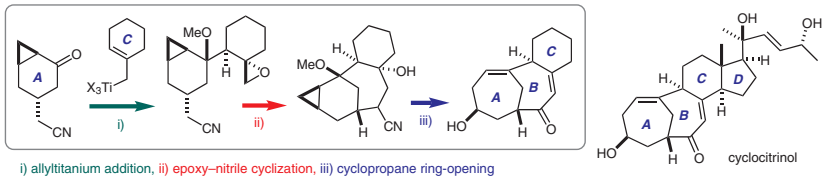
K. Tanino*
Hokkaido University, Japan

Synthetic Studies on Cyclocitrinol: Construction of the ABC Ring System Based on Epoxy–Nitrile Cyclization

Letter

674



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Synlett **2021**, *32*, 679–684
DOI: 10.1055/a-1345-3491

Porphyrin-Catalyzed Oxidation of N-Substituted Tetrahydroisoquinolines to Dihydroisoquinolones

Letter

679

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C. Mu
N. Wang
Y.-L. Li*
Q. Ouyang*
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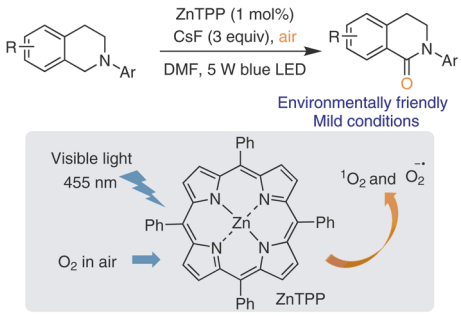
Third Military Medical University, P. R. of China



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Synlett **2021**, *32*, 685–688
DOI: 10.1055/a-1297-6838

Concise Total Synthesis of Curvulone B

Letter

685

S. Banoth
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K. Marumudi
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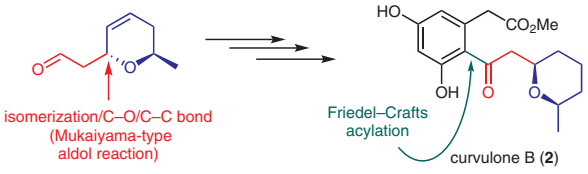
D. K. Mohapatra*
CSIR-Indian Institute of Chemical Technology, India
Academy of Scientific and Innovative Research (AcSIR), India



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Synlett **2021**, *32*, 689–692
DOI: 10.1055/a-1326-9148

Total Synthesis of (±)-Phaeocaulisin D

Letter

689

N. Ezzat
K. Bobek
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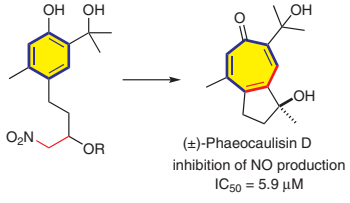

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Synlett **2021**, *32*, 693–696
DOI: 10.1055/a-1303-9935

A Concise Enantiodivergent Synthesis of Equol

Letter

693

T. Uemura
Y. Saito
M. Sonoda
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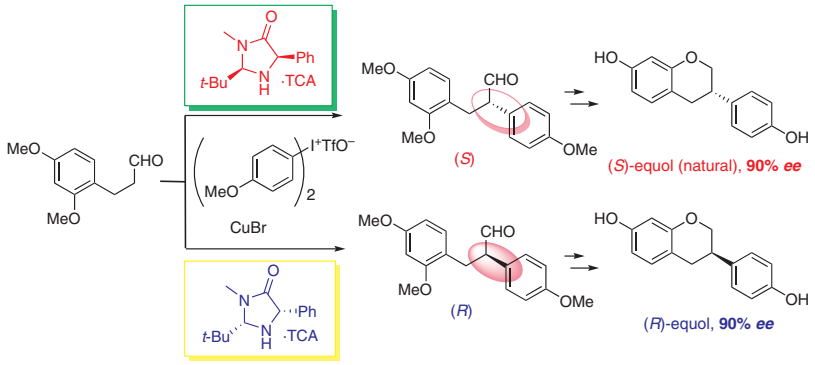


Synlett

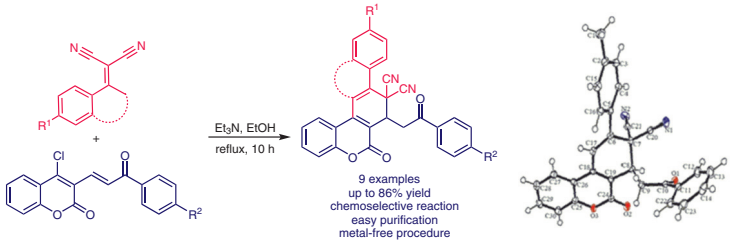
Synlett **2021**, *32*, 697–700
DOI: 10.1055/s-0040-1706012

Efficient Synthesis of 7,8-Dihydro-6*H*-benzo[*c*]chromen-6-one Derivatives by Base-Mediated Chemoselective Annulation of Alkylidene Malononitriles with α,β-Unsaturated Coumarins

Letter

697

A. Alizadeh*
B. Farajpour
M. Khanpour
Tarbiat Modares University, Iran



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Synlett **2021**, *32*, 701–707
DOI: 10.1055/a-1310-5213

Enantioselective Halocyclization of Indole Derivatives: Using 1,3-Dihalohydantoins with Anionic Chiral Co(III) Complexes

Letter

701

T.-T. Sun
K. Liu
S.-X. Zhang
C.-R. Wang
C.-Z. Yao
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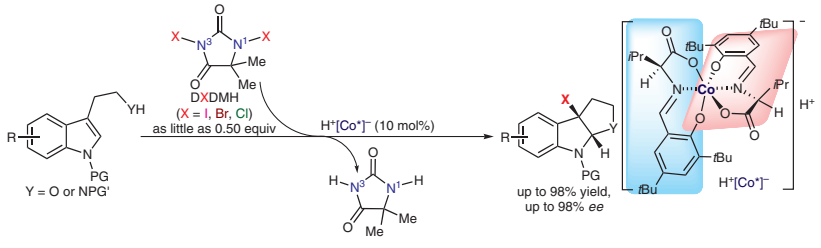
Anhui Agricultural University, P. R. of China



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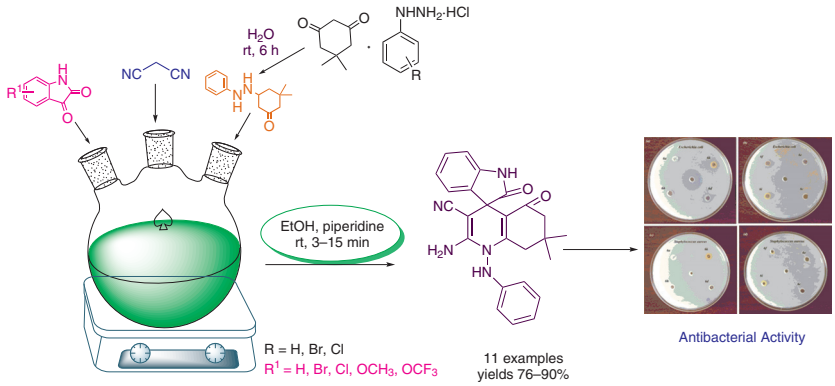
Synlett **2021**, *32*, 708–712
DOI: 10.1055/s-0040-1706682

Expedient Synthesis and Antibacterial Activity of Tetrahydro-1′*H*-spiro[indoline-3,4′-quinoline]-3′-carbonitrile Derivatives Using Piperidine as Catalyst

Letter
708

N. Vinoth
P. Vadivel
A. Lalitha*
Periyar University, India



Synlett
Synlett **2021**, *32*, 713–717
DOI: 10.1055/a-1326-6973

Ynoate-Initiated Selective C–N Esterification of Tertiary Amines under Transition-Metal and Oxidant-Free Conditions

Letter
713

F. Sun
H. Feng*
L. Huang
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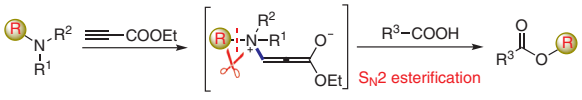
Shanghai University of Engineering Science, P. R. of China
China State Institute of Pharmaceutical Industry, P. R. of China



- Selective metal- and oxidant-free C–N bond activation
- Tertiary amine as carbon donor
- 24 examples with up to 90% yield

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Synlett **2021**, *32*, 718–722
DOI: 10.1055/a-1343-5203

Copper and N-Heterocyclic Carbene-Catalyzed Oxidative Amidation of Aldehydes with Amines

Letter
718

A. Singh
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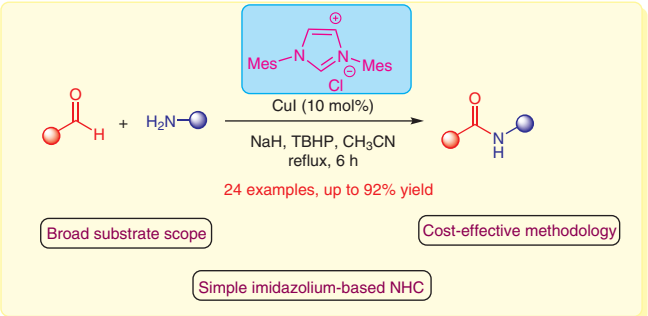
Guru Gobind Singh Indraprastha University, India



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Synlett **2021**, *32*, 723–727
DOI: 10.1055/a-1322-3916

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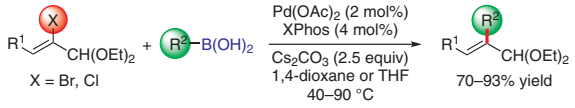
Modular Synthesis of α-Substituted Alkenyl Acetals by a Palladium-Catalyzed Suzuki Reaction of α-Haloalkenyl Acetals with Organoboranes

Letter

723



- Modular synthesis
- Broad substrate scope
- Gram scale-up
- Mild reaction conditions

Synlett
Synlett **2021**, *32*, 728–732
DOI: 10.1055/a-1334-6450

G. Chen
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T. Kawabata
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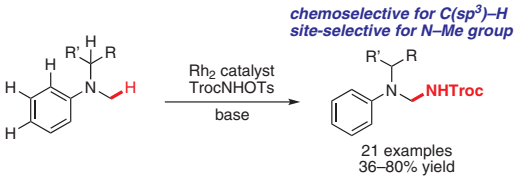
Kyoto University, Japan

Dirhodium-Catalyzed Chemo- and Site-Selective C–H Amidation of *N*,*N*-Dialkylanilines

Letter

728



Synlett
Synlett **2021**, *32*, 733–737
DOI: 10.1055/a-1294-0158

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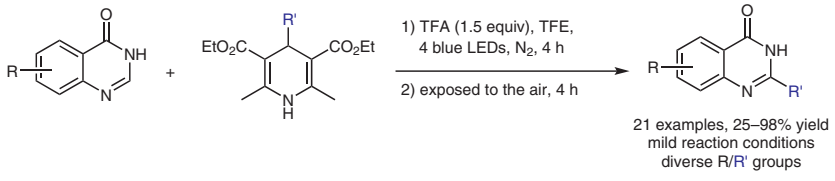
Late-Stage Alkylation of N-Containing Heteroarenes Enabled by Homolysis of Alkyl-1,4-dihydropyridines under Blue LED Irradiation

Letter

733



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Synlett **2021**, *32*, 738–742
DOI: 10.1055/a-1327-6933

Synthesis of Indolo[1,2-*a*]quinoxalinones through Palladium/Copper-Cocatalyzed Oxidative Isocyanide-Insertion Cyclization of Indoles and Hydrolysis of Enamines

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Y.-r. Hu
Y.-y. Zhao
S.-y. Wu
R. Yang
Y. Chen
F. Ji*
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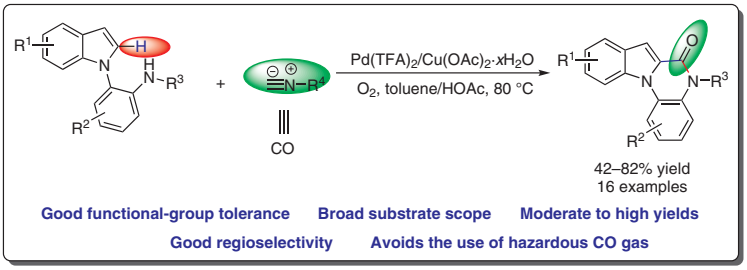

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