

Synthesis

Synthesis 2019, 51, 3369–3396
DOI: 10.1055/s-0037-1611844

J. G. Sośnicki*

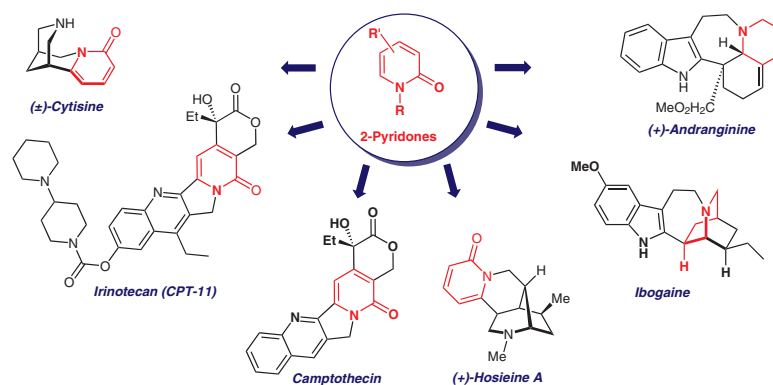
T. J. Idzik

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Pyridones – Powerful Precursors for the Synthesis of Alkaloids, Their Derivatives, and Alkaloid-Inspired Compounds

Review

3369



Synthesis

Synthesis 2019, 51, 3397–3409
DOI: 10.1055/s-0037-1611891

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A. V. Smolobochkin

R. A. Turmanov

M. A. Pudovik

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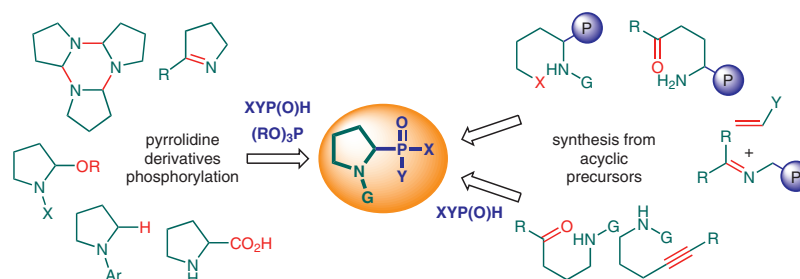
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Synthesis of Phosphaproline Derivatives: A Short Overview

Short Review

3397



Synthesis

Synthesis 2019, 51, 3410–3418
DOI: 10.1055/s-0037-1611567

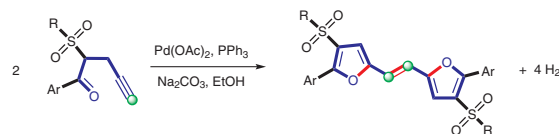
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Palladium(II) Acetate Mediated Dimerization/Cycloisomerization of 2-Sulfonyl-4-alkynes: Synthesis of *trans*-1,2-Difurylethylenes

Paper

3410



- ✓ one-pot atom-economic synthesis
- ✓ easy operational
- ✓ open atmosphere
- ✓ *trans*-only 1,2-difurylethylenes
- ✓ 21 examples
- ✓ 8–78% yield

Synthesis

Synthesis 2019, 51, 3419–3430
DOI: 10.1055/s-0039-1689973

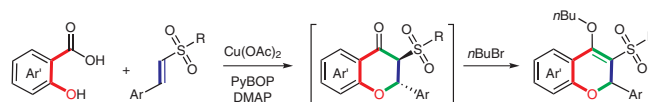
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Copper(II) Acetate Mediated Synthesis of 3-Sulfonyl-2-aryl-2H-chromenes

Paper

3419



- ✓ easy operation
- ✓ high yield
- ✓ 37 examples
- ✓ inexpensive copper salt
- ✓ one-pot two-step route

Synthesis

Synthesis 2019, 51, 3431–3442
DOI: 10.1055/s-0039-1690001

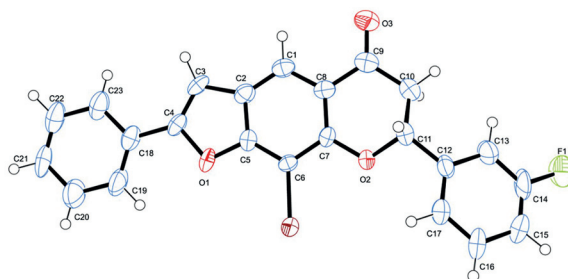
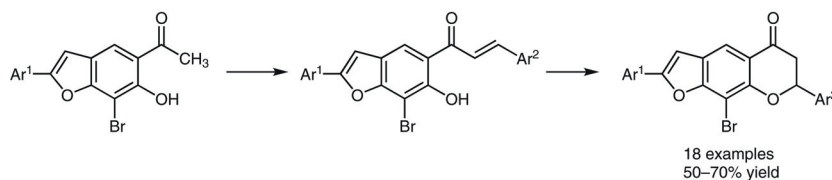
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Synthesis and Transformation of 5-Acetyl-2-aryl-6-hydroxybenzofurans into Furanoflavanone Derivatives

Paper

3431



Synthesis

Synthesis 2019, 51, 3443–3450
DOI: 10.1055/s-0039-1689937

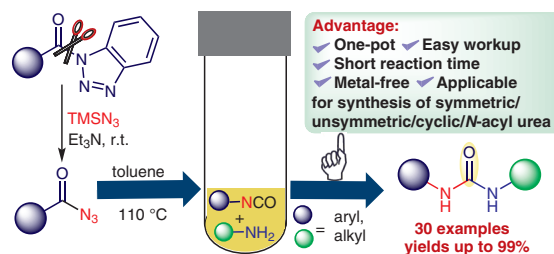
A. S. Singh
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An Improved Synthesis of Urea Derivatives from *N*-Acylbenzotriazole via Curtius Rearrangement

Paper

3443



Synthesis

Synthesis 2019, 51, 3451–3461
DOI: 10.1055/s-0039-1690099

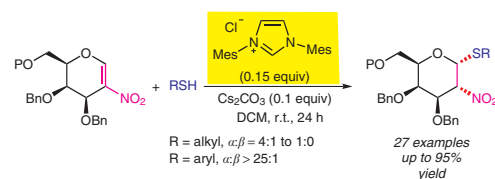
Y.-L. Hu
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N-Heterocyclic Carbene Catalyzed Stereoselective Synthesis of 2-Nitro-thiogalactosides

Paper

3451



Synthesis

Synthesis 2019, 51, 3462–3470
DOI: 10.1055/s-0037-1611539

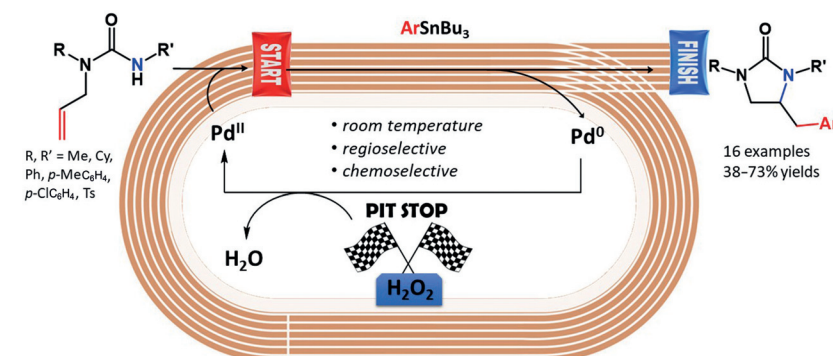
S. Giofrè
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Chemo- and Regioselective Palladium(II)-Catalyzed Aminoarylation of *N*-Allylureas Providing 4-Arylmethyl Imidazolidinones

Paper

3462



Synthesis

Synthesis 2019, 51, 3471–3476
DOI: 10.1055/s-0037-1611566

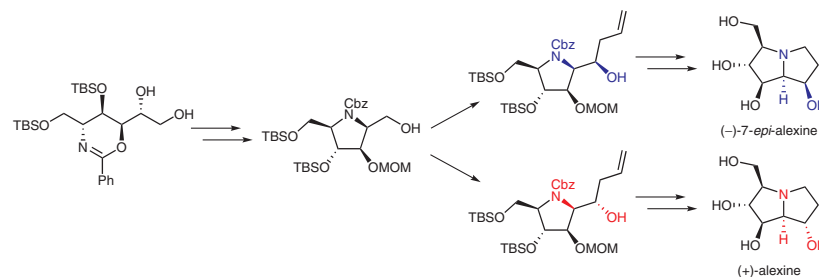
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Total Syntheses of (–)-7-*epi*-Alexine and (+)-Alexine Using Stereo-selective Allylation

Paper

3471



Synthesis

Synthesis 2019, 51, 3477–3484
DOI: 10.1055/s-0037-1611850

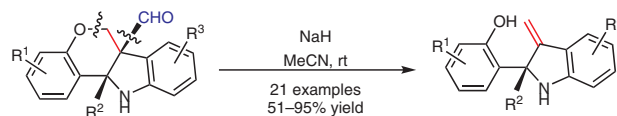
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Preparation of 2-(3-Methyleneindolin-2-yl)phenols via Sodium Hydride Promoted C–C/O Bond Cleavage

Paper

3477



- Inexpensive and green NaH
- Good functional group tolerance
- Tandem C–C/O bond cleavage
- New application of NaH as a nucleophile

Synthesis

Synthesis 2019, 51, 3485–3490
DOI: 10.1055/s-0039-1689971

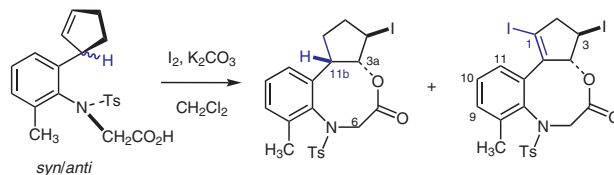
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An Unexpected Dihalogenation/Dehydrogenation Product Derived via Iodolactonization of an *N*-Tosyl-*N*-[6-(2-cyclopenten-1-yl)-2-methylphenyl]glycine

Paper

3485



Synthesis

Synthesis 2019, 51, 3491–3498
DOI: 10.1055/s-0039-1689916

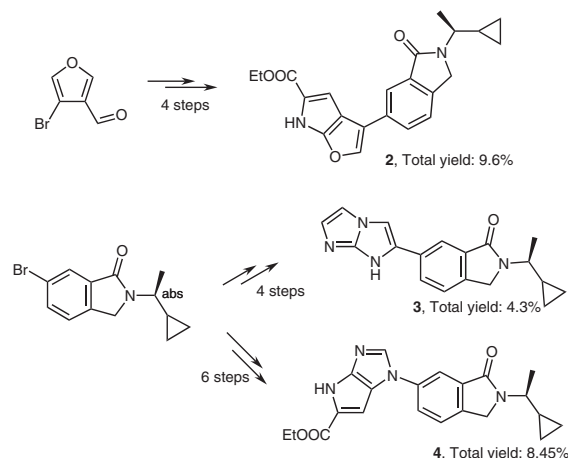
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A Facile Access to Novel (5+5) Annellated Heterocycles: Synthesis of a Furopyrrole, an Imidazoimidazole and a Pyrroloimidazole

Paper

3491



Synthesis

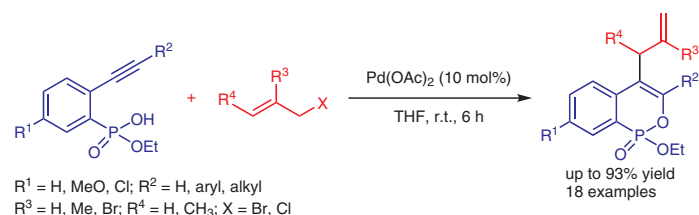
Synthesis 2019, 51, 3499–3505
DOI: 10.1055/s-0039-1689936

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Palladium(II) Acetate Catalyzed Cyclization–Coupling of (*o*-Ethynylphenyl)phosphonic Acid Monoesters with Allyl Halides

Paper

3499



Synthesis

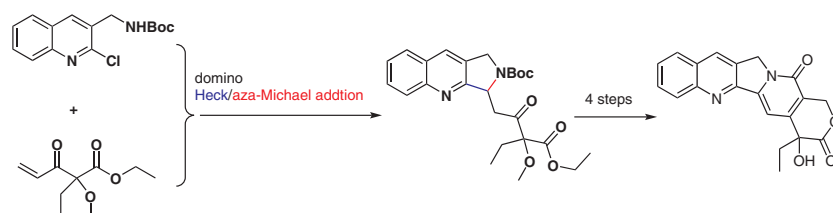
Synthesis 2019, 51, 3506–3510
DOI: 10.1055/s-0037-1611870

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A Concise Total Synthesis of (±)-Camptothecin

Paper

3506



Synthesis

Synthesis 2019, 51, 3511–3519
DOI: 10.1055/s-0037-1611888

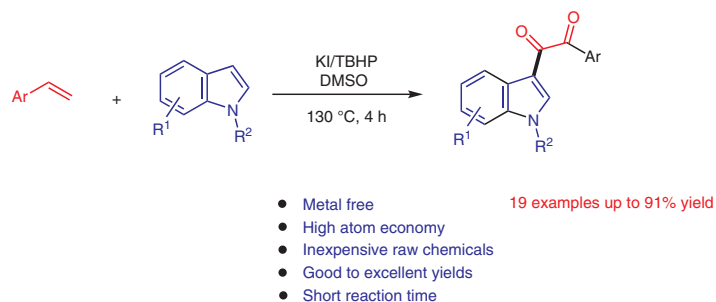
B. Zhou
S. Guo
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KI-Promoted Oxidative Coupling of Styrenes with Indoles under Metal-Free Conditions: Facile Access to C-3 Dicarboxyl Indoles

Paper

3511



Synthesis

Synthesis 2019, 51, 3520–3528
DOI: 10.1055/s-0037-1611871

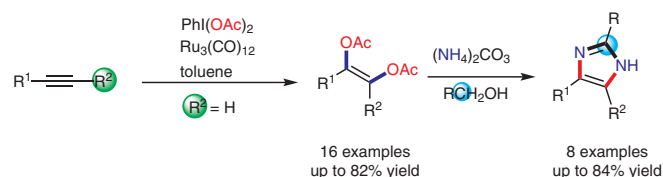
Y.-t. Ruan
Y.-p. Chen
L.-h. Gu
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Preparation of Imidazole Derivatives via Bisfunctionalization of Alkynes Catalyzed by Ruthenium Carbonyl

Paper

3520



Synthesis

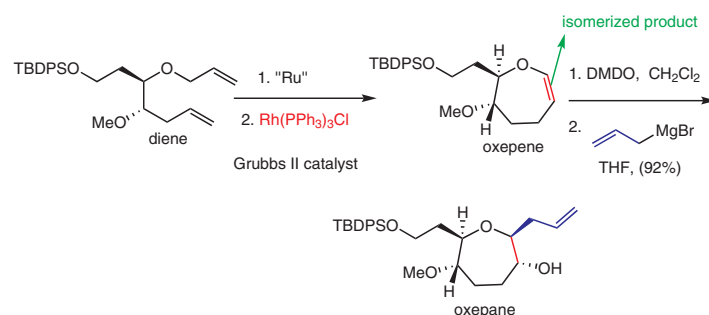
Synthesis 2019, 51, 3529–3535
DOI: 10.1055/s-0037-1611838

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Concise Seven-Membered Oxepene/Oxepane Synthesis – Structural Motifs in Natural and Synthetic Products

Paper

3529



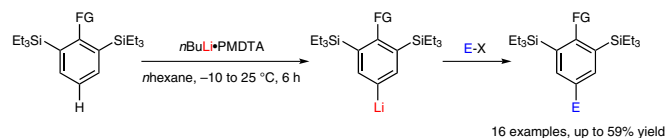
Synthesis

Synthesis 2019, 51, 3536–3544
DOI: 10.1055/s-0037-1611480

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Steric-Hindrance Triggered Remote Lithiations of Bulky Silyl-Substituted Arenes



Paper

3536

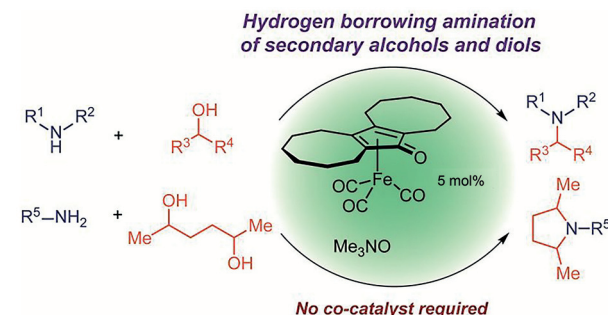
Synthesis

Synthesis 2019, 51, 3545–3555
DOI: 10.1055/s-0039-1690101

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Hydrogen-Borrowing Amination of Secondary Alcohols Promoted by a (Cyclopentadienone)iron Complex



Paper

3545

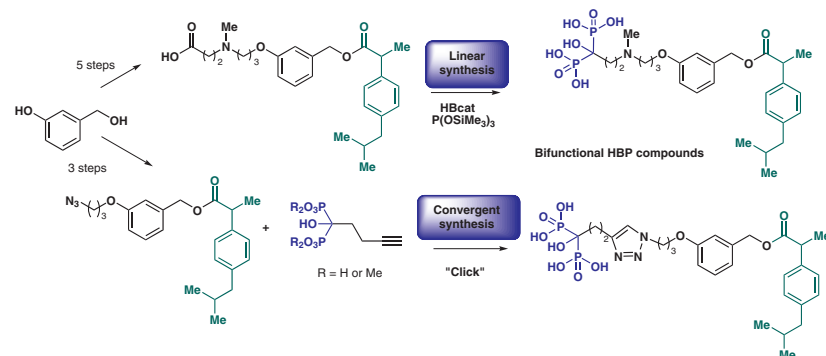
Synthesis

Synthesis 2019, 51, 3556–3566
DOI: 10.1055/s-0037-1611540

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Linear and Convergent Syntheses of Bifunctional Hydroxy-Bisphosphonic Compounds as Potential Bone-Targeting Prodrugs



Paper

3556