

Synthesis

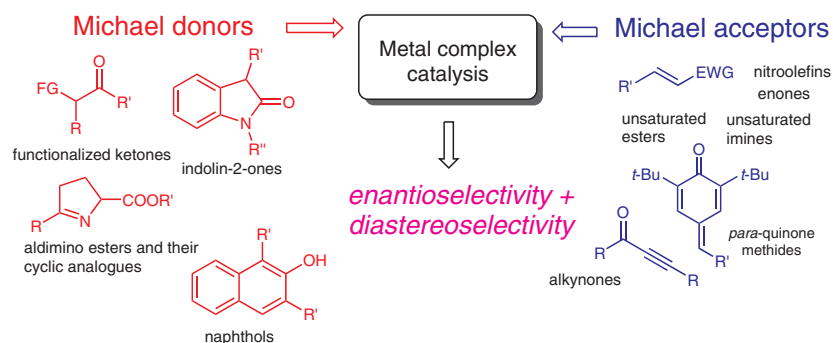
Synthesis 2020, 52, 781–795
DOI: 10.1055/s-0039-1690044

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Samara State Technical
University, Russian Federation

Recent Developments in Highly Stereoselective Michael Addition Reactions Catalyzed by Metal Complexes

Review

781



Synthesis

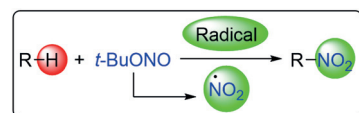
Synthesis 2020, 52, 796–806
DOI: 10.1055/s-0039-1690789

S.-Z. Song
Y. Dong*
G.-P. Ge*
Q. Li
W.-T. Wei*
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Recent Advances in Radical Nitration Using *tert*-Butyl Nitrite

Short Review

796



Synthesis

Synthesis 2020, 52, 807–818
DOI: 10.1055/s-0039-1690046

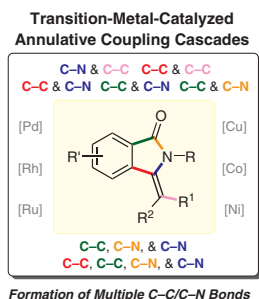
S. W. Youn*

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Republic of Korea

Transition-Metal-Catalyzed Annulative Coupling Cascade for the Synthesis of 3-Methyleneisindolin-1-ones

Short Review

807



Synthesis

Synthesis 2020, 52, 819–833
DOI: 10.1055/s-0039-1691561

J.-C. Hsieh*

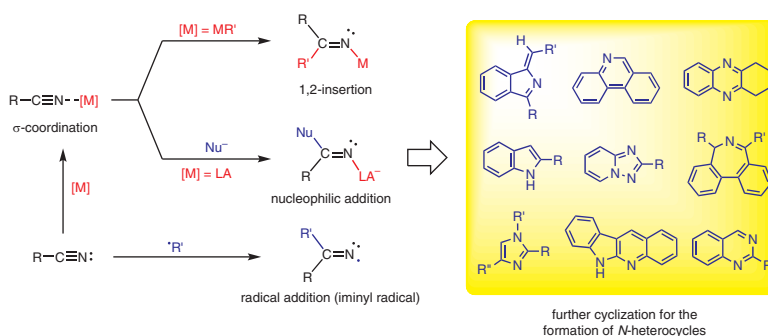
H.-L. Su

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Synthesis of *N*-Heterocycles via Transition-Metal-Catalyzed Tandem Addition/Cyclization of a Nitrile

Short Review

819



Synthesis

Synthesis 2020, 52, 834–846
DOI: 10.1055/s-0039-1690801

Q. Gao

Z.-S. Liu

Y. Hua

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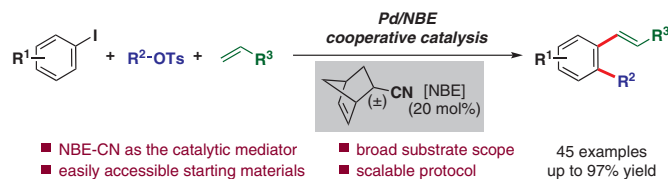
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Alkyl Tosylates as Alkylating Reagents in the Catellani Reaction

Feature

834



Synthesis

Synthesis 2020, 52, 847–852
DOI: 10.1055/s-0039-1690730

B. Morra

N. A. Morra

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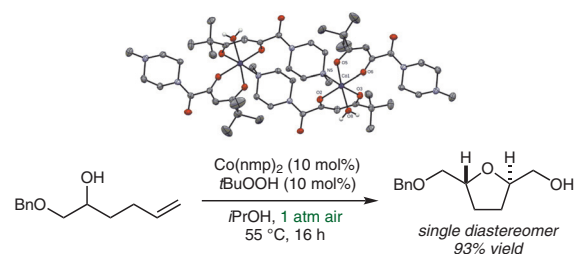
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Gram-Scale Synthesis of the Co(nmp)₂ Catalyst to Prepare
trans-2,5-Disubstituted Tetrahydrofurans by the Aerobic Oxidative
Cyclization of Pent-4-en-1-ols

PSP

847



Synthesis

Synthesis 2020, 52, 853–860
DOI: 10.1055/s-0039-1690763

M. Kohlhaas

F. Lutz

N. Paransothy

F. Octa-Smolín

C. Wölper

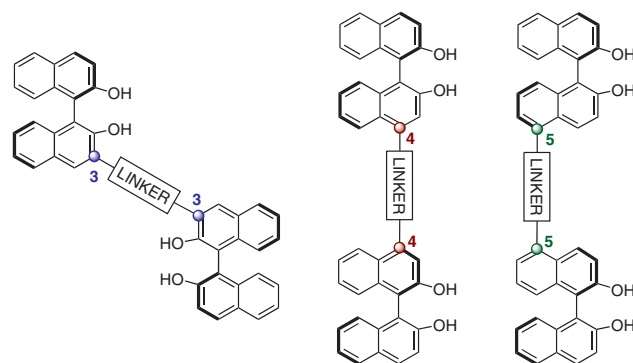
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Synthesis of Bis-BINOL Derivatives: Linking via the 3-, 4-, or
5-Position by Generation of Suitable C₁-Symmetric Precursors

Paper

853



Synthesis

Synthesis 2020, 52, 861–872
DOI: 10.1055/s-0039-1690760

M.-Y. Chang*

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Y.-L. Tsai

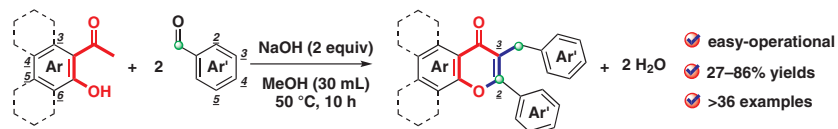
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One-Pot Access to 2-Aryl-3-(arylmethyl)chromones

Paper

861



Ar = Ph, 4-FC₆H₃, 4-ClC₆H₃, 4-BrC₆H₃, 1-naphthyl, 5-MeOC₆H₃, 4-MeOC₆H₃, 3-MeOC₆H₃, 5-BuOC₆H₃, 4-BuOC₆H₃, 3-BuOC₆H₃, 5-BnOC₆H₃, 4-BnOC₆H₃, 3-BnOC₆H₃, 4,6-Cl₂C₆H₂, 4,6-F₂C₆H₂, 4-MeC₆H₃, 2-naphthyl, 4-PhC₆H₃, 4-(4-FC₆H₃)C₆H₃, 4-(4-MeOC₆H₃)C₆H₃, 4-(2-naphthyl)C₆H₃, 4-(4-PhC₆H₃)C₆H₃
Ar' = pyridyl, phenyl, naphthyl, furyl, thienyl, benzofuryl, benzothieryl, quinolinyl

Synthesis

Synthesis 2020, 52, 873–881
DOI: 10.1055/s-0039-1690766

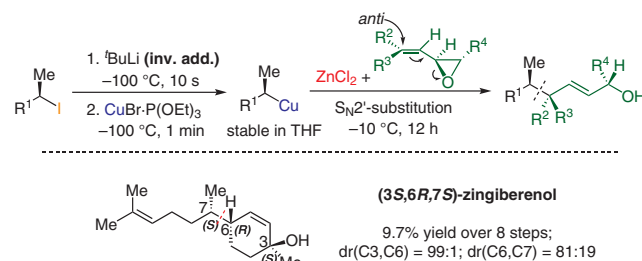
J. Skotnitzki
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 Stereoselective *anti*-S_N2'-Substitutions of Secondary Alkylcopper-Zinc Reagents with Allylic Epoxides: Total Synthesis of (3*S*,6*R*,7*S*)-Zingiberenol

Paper

873



Synthesis

Synthesis 2020, 52, 882–892
DOI: 10.1055/s-0039-1691487

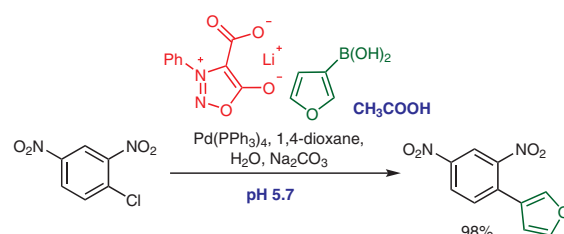
L. Pruschinski
A.-L. Lücke
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Suzuki–Miyaura Cross-Couplings under Acidic Conditions

Paper

882



Synthesis

Synthesis 2020, 52, 893–900
DOI: 10.1055/s-0039-1690765

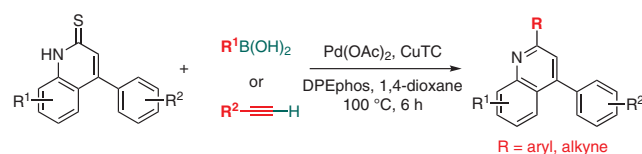
H.-L. Lu
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Base of Water-Retention Chemical
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 Palladium-Catalyzed/Copper-Mediated Desulfurization and Arylation of Quinoline-2-(1*H*)-thione for Rapid Access to Quinoline Derivatives

Paper

893



- C–C bonds formation
- 29 examples, up to 85% yield
- without an inert atmosphere
- base-free

Synthesis

Synthesis 2020, 52, 901–908
DOI: 10.1055/s-0037-1610742

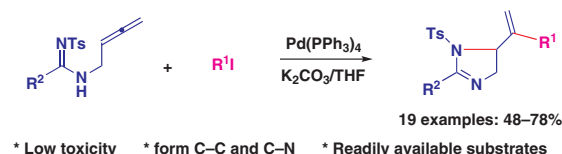
Y. Liu
C. Zhang
X. Liang
X. Zeng
R. Lu
Z. Fang
S. Wang
Y. Liu
J. Hu*

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Synthesis of 2-Imidazolines via Palladium-Catalyzed Cyclization Reaction of 2,3-Allenyl Amines and Aryl Iodides

Paper

901



* Low toxicity * form C–C and C–N * Readily available substrates

Synthesis

Synthesis 2020, 52, 909–916
DOI: 10.1055/s-0039-1691531

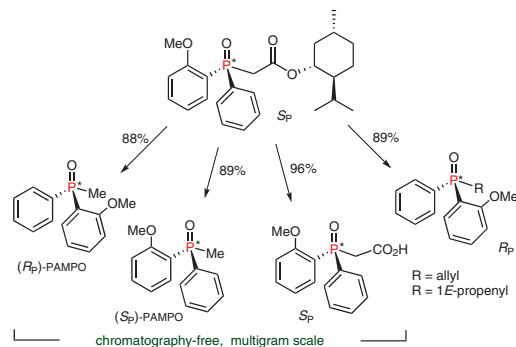
K. Dziuba
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Enantiodivergent Synthesis of Both PAMPO Enantiomers Using L-Menthyl Chloroacetate and Stereomutation at P in Classical Quaternisation Reactions

Paper

909



Synthesis

Synthesis 2020, 52, 917–927
DOI: 10.1055/s-0039-1690759

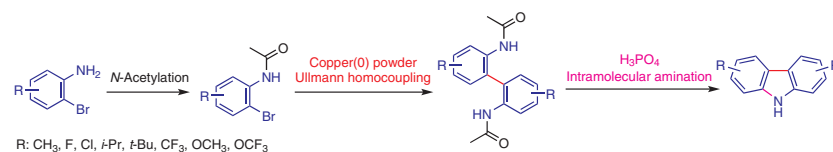
J. Ban
M. Lim
S. Shabbir
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Site-Specific Synthesis of Carbazole Derivatives through Aryl Homocoupling and Amination

Paper

917



Synthesis

Synthesis 2020, 52, 928–932
DOI: 10.1055/s-0039-1690809

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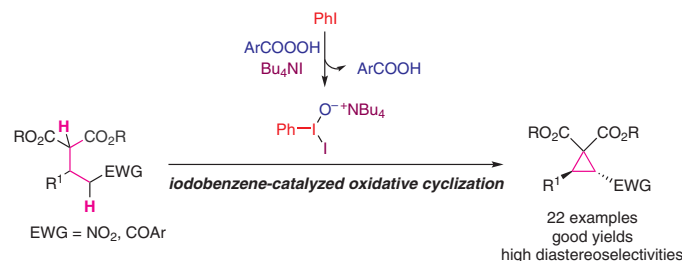
R. Fan*

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Iodobenzene-Catalyzed Oxidative Cyclization for the Synthesis of Highly Functionalized Cyclopropanes

Paper

928



Synthesis

Synthesis 2020, 52, 933–941
DOI: 10.1055/s-0039-1690039

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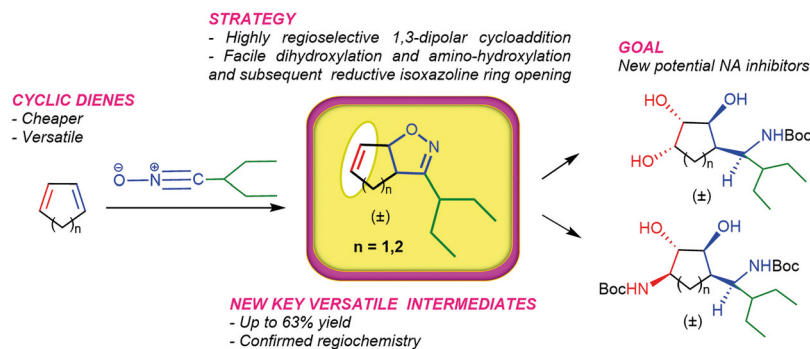
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New Strategy of Synthesis of Peramivir Analogues as Potential Neuraminidase Inhibitors

Paper

933



Synthesis

Synthesis 2020, 52, 942–948
DOI: 10.1055/s-0039-1691522

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Stereoselective Synthesis of Protected L-*allo*-Enduracididine and L-Enduracididine via Asymmetric Nitroaldol Reaction

Paper

942

