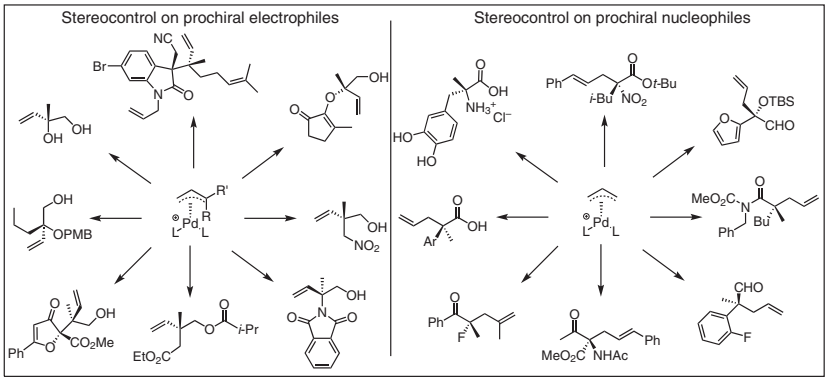
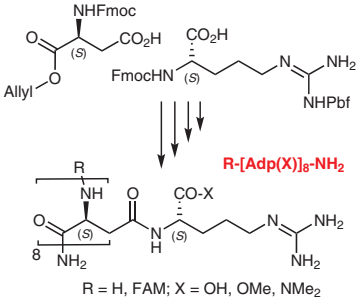
Synthesis

Reviews and Full Papers in Chemical Synthesis

2019
Vol. 51, No. 1
January I





Synthesis

Synthesis **2019**, *51*, 40–54
DOI: 10.1055/s-0037-1611066

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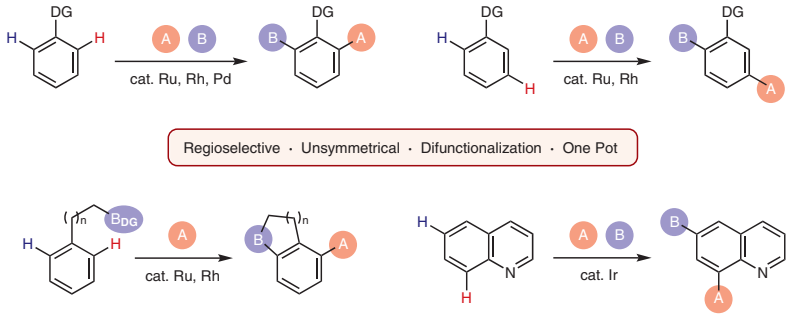
Unsymmetrical Difunctionalization of Two Different C–H Bonds in One Pot Under Transition-Metal Catalysis

Short Review



Synthesis

Synthesis **2019**, *51*, 55–66
DOI: 10.1055/s-0037-1610368

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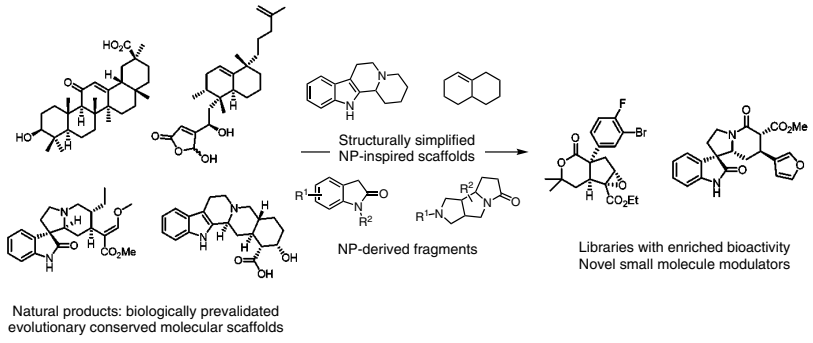
Guided by Evolution: Biology-Oriented Synthesis of Bioactive Compound Classes

Short Review



Synthesis

Synthesis **2019**, *51*, 67–82
DOI: 10.1055/s-0037-1610382

A. G. M. Barrett*
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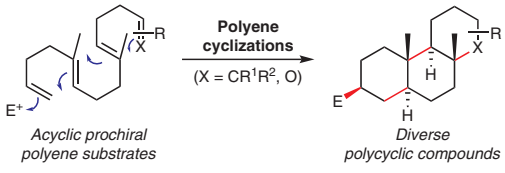
Recent Developments in Polyene Cyclizations and Their Applications in Natural Product Synthesis

Short Review



Synthesis
Synthesis **2019**, *51*, 83–96
DOI: 10.1055/s-0037-1610380

Electrochemical/Photochemical Aminations Based on Oxidative Cross-Coupling between C–H and N–H

Short Review

83

H. Zhang
A. Lei*
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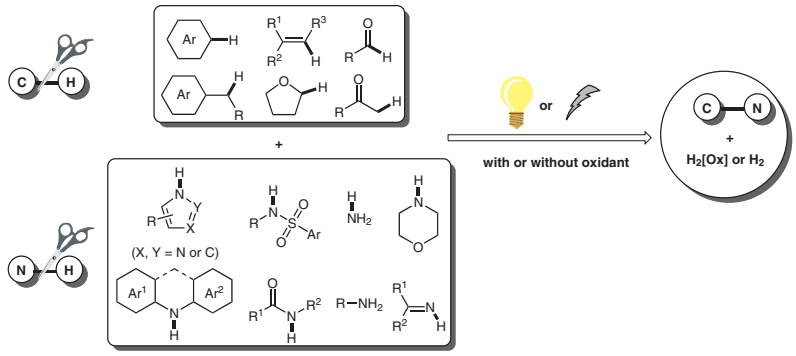

Synthesis
Synthesis **2019**, *51*, 97–106
DOI: 10.1055/s-0037-1610392

Synthesis and Reactivity of Mixed Dimethylalkynylaluminum Reagents

Short Review

97

R. Piccardi
S. Turcaud
E. Benedetti
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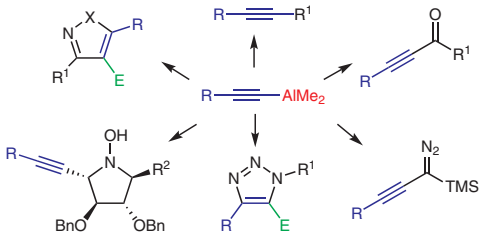

Synthesis
Synthesis **2019**, *51*, 107–121
DOI: 10.1055/s-0037-1610377

Syntheses of Cyclomarins – Interesting Marine Natural Products with Distinct Mode of Action towards Malaria and Tuberculosis

Short Review

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A. Kiefer
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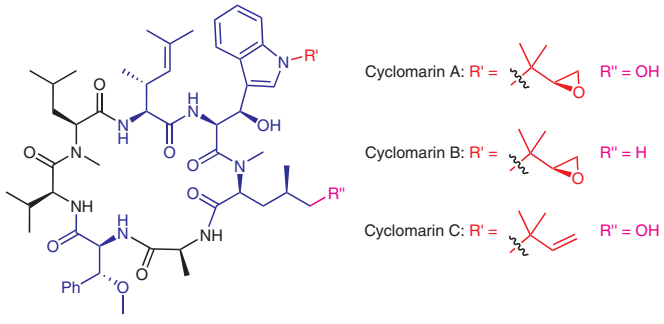

Synthesis

Synthesis **2019**, *51*, 122–134
DOI: 10.1055/s-0037-1610379

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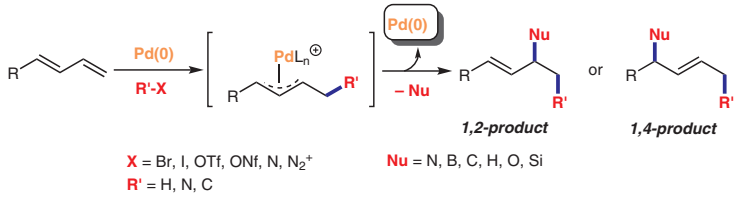
Palladium(0)-Catalyzed Difunctionalization of 1,3-Dienes: From Racemic to Enantioselective

Short Review



Synthesis

Synthesis **2019**, *51*, 135–145
DOI: 10.1055/s-0037-1610397

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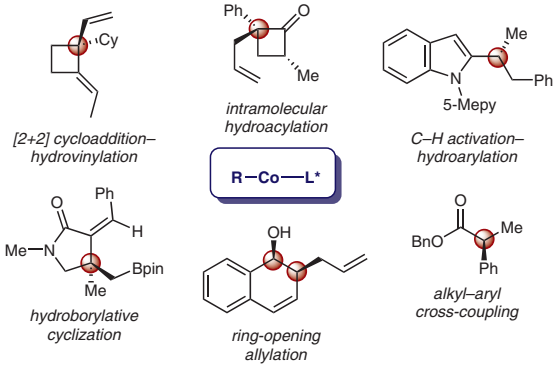
Recent Advances in Enantioselective C–C Bond Formation via Organocobalt Species

Short Review



Synthesis

Synthesis **2019**, *51*, 146–160
DOI: 10.1055/s-0037-1610396

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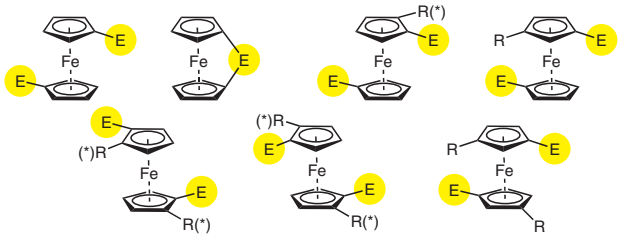
Twofold Ferrocene C–H Lithiations For One-Step Difunctionalizations

Short Review



Synthesis
Synthesis **2019**, *51*, 161–177
DOI: 10.1055/s-0037-1610393

D. Lübken
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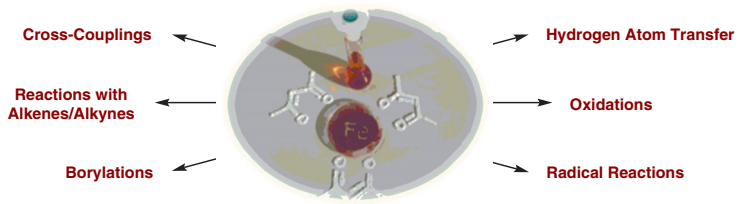
Tris(acetylacetonato) Iron(III): Recent Developments and Synthetic Applications

Short Review



Synthesis
Synthesis **2019**, *51*, 178–184
DOI: 10.1055/s-0037-1611358

E. Barde
A. Guérinot*
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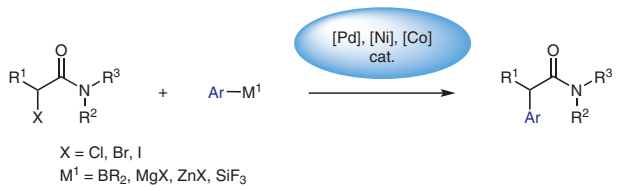
PSL Research University, France

α-Arylation of Amides from α-Halo Amides Using Metal-Catalyzed Cross-Coupling Reactions

Short Review



Synthesis
Synthesis **2019**, *51*, 185–193
DOI: 10.1055/s-0037-1610412

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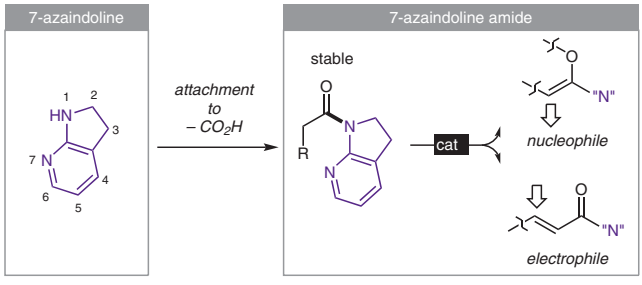
Institute of Microbial chemistry (BIKAKEN), Japan

7-Azaindoline Auxiliary: A Versatile Attachment Facilitating Enantioselective C–C Bond-Forming Catalysis

Short Review



Synthesis

Synthesis **2019**, *51*, 194–202
DOI: 10.1055/s-0037-1610411

T. Stopka
P. Adler
G. Hagn
H. Zhang
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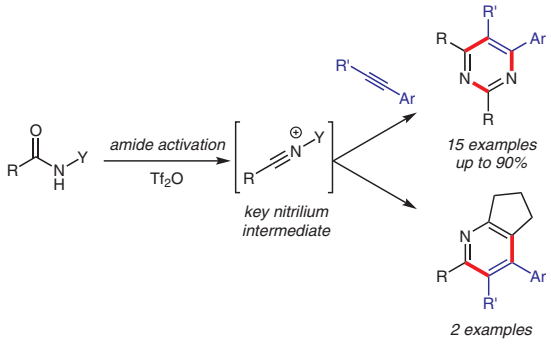
Electrophilic Activation of Amides for the Preparation of Poly-substituted Pyrimidines

Feature



Synthesis

Synthesis **2019**, *51*, 203–212
DOI: 10.1055/s-0037-1610391

S. L. Bartlett
K. M. Keiter
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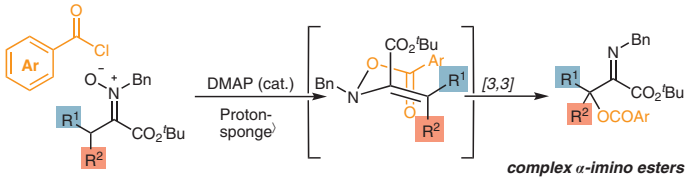
Formation of Complex α-Imino Esters via Multihetero-Cope Rearrangement of α-Keto Ester Derived Nitrones

Feature



Synthesis

Synthesis **2019**, *51*, 213–224
DOI: 10.1055/s-0037-1610395

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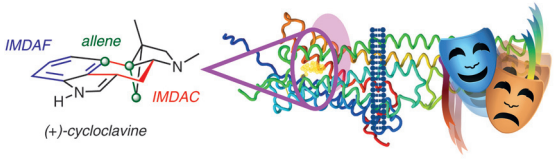
Asymmetric Total Synthesis and Biological Evaluation of (+)-Cycloclavine

Feature



Synthesis
Synthesis **2019**, *51*, 225–232
DOI: 10.1055/s-0037-1611335

M. A. A. Endoma-Arias
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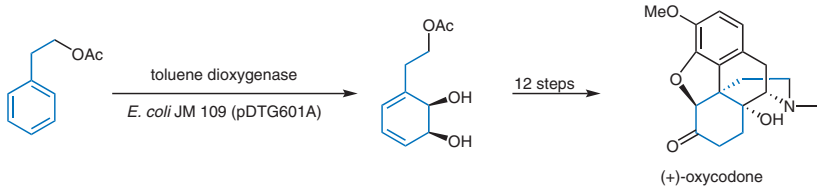
Chemoenzymatic Total Synthesis of (+)-Oxycodone from Phenethyl Acetate

Feature



Synthesis
Synthesis **2019**, *51*, 233–239
DOI: 10.1055/s-0037-1610309

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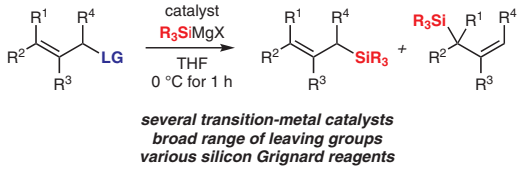
Silicon Grignard Reagents as Nucleophiles in Transition-Metal-Catalyzed Allylic Substitution

Feature



Synthesis
Synthesis **2019**, *51*, 240–250
DOI: 10.1055/s-0037-1610378

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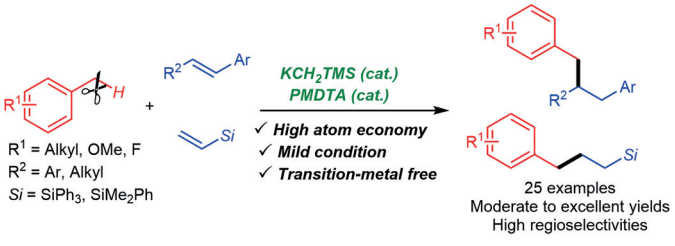
Alkylpotassium-Catalyzed Benzylic C–H Alkylation of Alkylarenes with Alkenes

Feature



Synthesis

Synthesis **2019**, *51*, 251–257
DOI: 10.1055/s-0037-1610398

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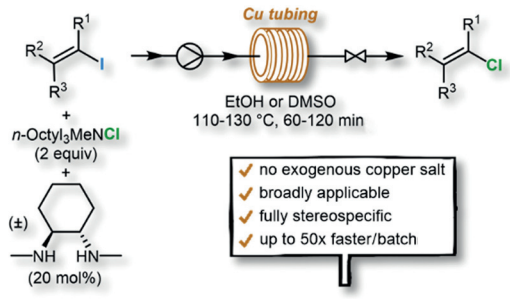
Continuous Flow Chlorination of Alkenyl Iodides Promoted by Copper Tubing

Feature



Synthesis

Synthesis **2019**, *51*, 258–270
DOI: 10.1055/s-0037-1610376

T. Noguchi
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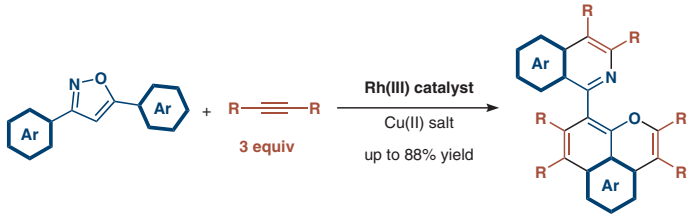
Rhodium-Catalyzed Cascade Annulative Coupling of 3,5-Diaryl-isoxazoles with Alkynes

Paper



Synthesis

Synthesis **2019**, *51*, 271–275
DOI: 10.1055/s-0037-1610369

H. Wang
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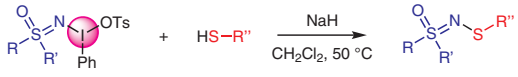
Electrophilic Sulfoximidations of Thiols by Hypervalent Iodine Reagents

Paper



Synthesis
Synthesis **2019**, *51*, 276–284
DOI: 10.1055/s-0037-1610373

Enantioselective Electrochemical Lactonization Using Chiral Iodoarenes as Mediators

Paper
276

W.-C. Gao
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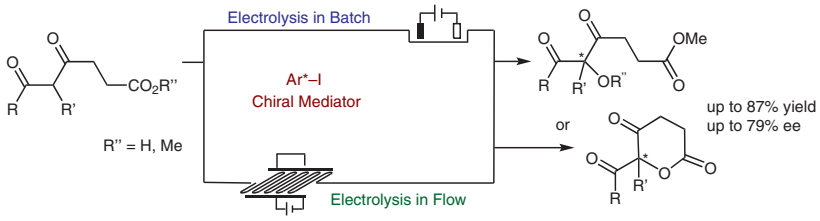

Synthesis
Synthesis **2019**, *51*, 285–295
DOI: 10.1055/s-0037-1610387

Synthesis of the C1–C12 Fragment of Calyculin C

Paper
285

O. V. Konstantinova
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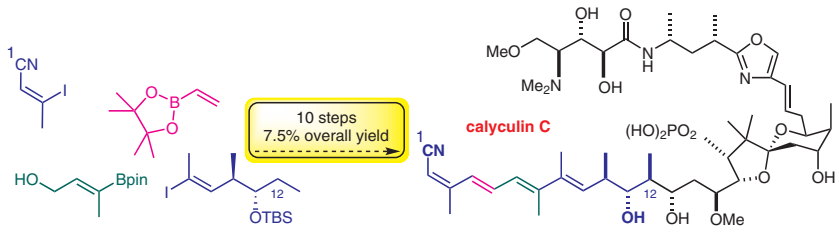

Synthesis
Synthesis **2019**, *51*, 296–302
DOI: 10.1055/s-0037-1610381

Diastereoselectivities in Reductions of α-Alkoxy Ketones Are Not Always Correlated to Chelation-Induced Rate Acceleration

Paper
296

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