

Synthesis

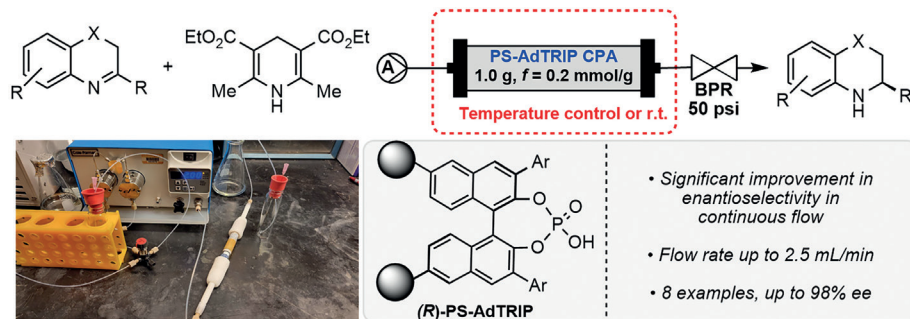
Reviews and Full Papers in Chemical Synthesis

August 1, 2023 • Vol. 55, 2261–2414

Special Issue

dedicated to Prof. David A. Evans

Editors: Corinna Schindler, Mark Lautens



Asymmetric Transfer Hydrogenation of Heterocyclic Compounds in Continuous Flow Using an Immobilized Chiral Phosphoric Acid as the Catalyst

O. Zhelavskyi, Y.-J. Jhang, P. Nagorny

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Synthesis

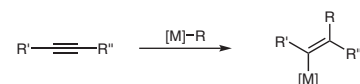
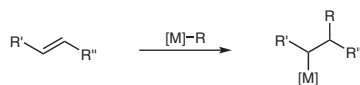
Synthesis **2023**, 55, 2261–2272
DOI: 10.1055/s-0042-1751362

Y. Liu
K. A. Woerpel*
New York University, USA

Uncatalyzed Carbometallation Involving Group 13 Elements: Carboration and Carboalumination of Alkenes and Alkynes

Short Review

2261



- [M] = B or Al
- no catalyst needed

Synthesis

Synthesis **2023**, 55, 2273–2284
DOI: 10.1055/a-2004-1228

M. Rizzacasa*
M. Ricca
University of Melbourne,
Australia

Chemistry and Biology of Acyloin Natural Products

Short Review

2273



Synthesis

Synthesis 2023, 55, 2285–2303
DOI: 10.1055/a-2017-4868

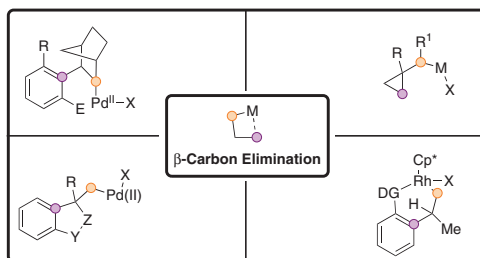
A. D. Marchese
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Recent Developments of Palladium- and Rhodium-Catalyzed β -Carbon Elimination Strategies

Short Review

2285



Synthesis

Synthesis 2023, 55, 2304–2310
DOI: 10.1055/a-2085-4089

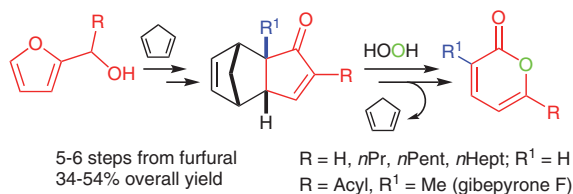
D. Dobler
M. Leitner
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University of Regensburg,
Germany

Synthesis of 2-Pyrones from Renewable Resources

Paper

2304



Synthesis

Synthesis 2023, 55, 2311–2318
DOI: 10.1055/s-0042-1751442

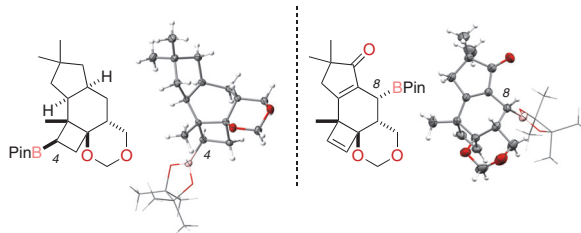
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C. Jandl
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T. Bach*

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Synthesis of Boronates with a Protoilludane Skeleton

Paper

2311



Synthesis

Synthesis **2023**, *55*, 2319–2324
DOI: 10.1055/s-0042-1751413

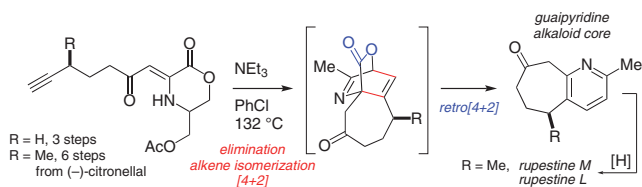
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Synthesis of Guaipyrindine Alkaloids Rupestine M and L by Cycloaddition/Cycloreversion of an Intermediate 1,4-Oxazinone

Paper

2319



Synthesis

Synthesis **2023**, *55*, 2325–2332
DOI: 10.1055/s-0042-1752404

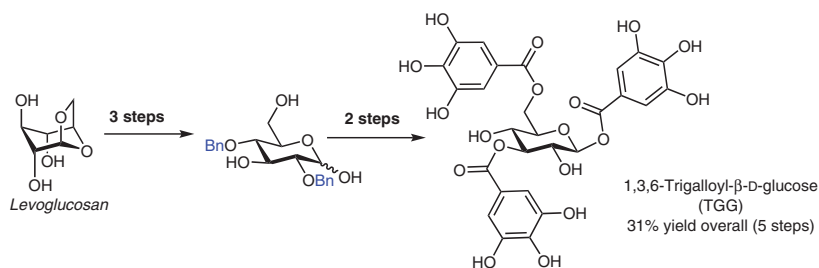
Y. Pauvert
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Improved Total Synthesis of 1,3,6-Trigalloyl-β-D-glucose from Glucose

Paper

2325



Synthesis

Synthesis, **2023**, 2333–2342
DOI: 10.1055/a-2022-1809

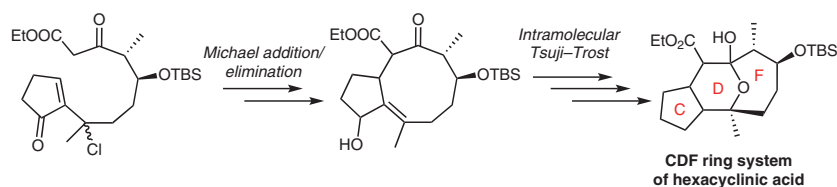
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Synthesis of the CDF Ring System of Hexacyclinic Acid

Paper

2333



Synthesis

Synthesis 2023, 55, 2343–2352
DOI: 10.1055/a-2022-1511

S. Dutta
K. Bhatt
F. Cuffel
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University of Florida, USA

Synthesis of Polycyclic Imidazoles via α -C–H/N–H Annulation of Alicyclic Amines

Paper

2343



Synthesis

Synthesis 2023, 55, 2353–2360
DOI: 10.1055/s-0041-1738430

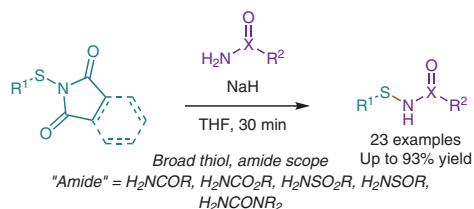
J. T. Liu
D. S. Brandes
N. S. Greenwood
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Synthesis of *N*-Acylsulfenamides from Amides and *N*-Thiosuccinimides

Paper

2353



Synthesis

Synthesis 2023, 55, 2361–2369
DOI: 10.1055/a-2085-5256

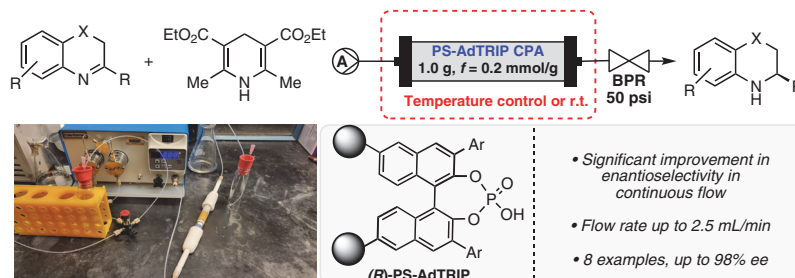
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Y.-J. Jhang
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Asymmetric Transfer Hydrogenation of Heterocyclic Compounds in Continuous Flow Using an Immobilized Chiral Phosphoric Acid as the Catalyst

Paper

2361



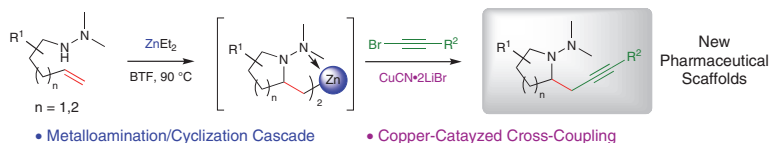
Synthesis

Synthesis 2023, 55, 2370–2376
DOI: 10.1055/s-0042-1751467

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On the Copper(I)-Catalyzed Cross-Coupling of 1-Bromoalkynes with N-Heterocyclic Organozinc Reagents: Substrate Scope and Catalyst Evaluation

Paper
2370



14 Examples with 5 R Groups | Up To 92% Yield | Scalability | Wide Functional Group Tolerance

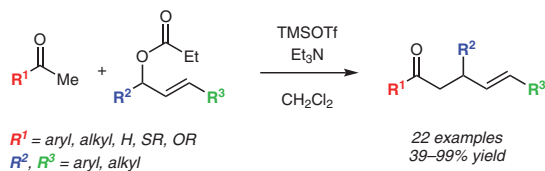
Synthesis

Synthesis 2023, 55, 2377–2389
DOI: 10.1055/a-1959-2505

E. D. Heafner
X. Lin
A. H. Connors
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One-Pot Enol Silane Formation–Allylation of Ketones Promoted by Trimethylsilyl Trifluoromethanesulfonate

Paper
2377



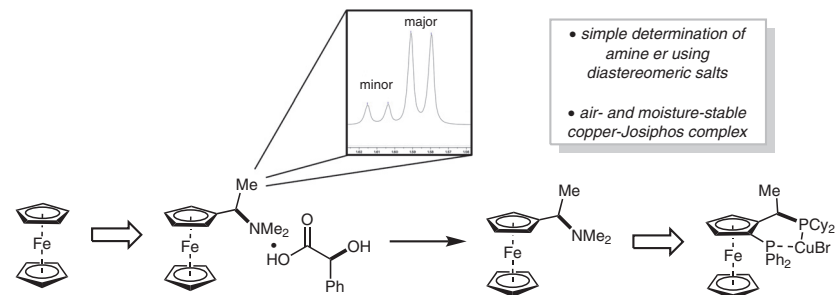
Synthesis

Synthesis 2023, 55, 2390–2396
DOI: 10.1055/s-0042-1751393

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Simplified Synthesis of an Air-Stable Copper-Complexed Josiphos Ligand via Ugi's Amine: Complete Preparation and Analysis from Ferrocene

Paper
2390



Synthesis

Synthesis 2023, 55, 2397–2405
DOI: 10.1055/a-1989-2633

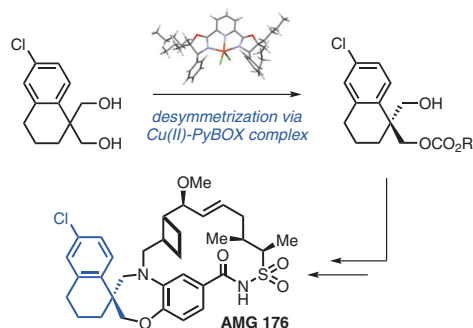
P. K. Ananthoji
A. Arunachalampillai
M. G. Beaver
Y.-Q. Fang
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B. S. Lucas
J. S. Tedrow
M. M. Faul*

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Inc., USA

Desymmetrization of a Propane-1,3-diol to Introduce the Quaternary Chiral Center of an AMG 176 Drug Substance Intermediate

Paper

2397



Synthesis

Synthesis 2023, 55, 2406–2414
DOI: 10.1055/a-2004-1093

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Efficient Synthesis and Functionalization of 3-Bromonaphtho[2,3-*b*]thiophene

Paper

2406

