

## Synthesis

*Synthesis* **2018**, *50*, 3749–3786  
DOI: 10.1055/s-0037-1610206

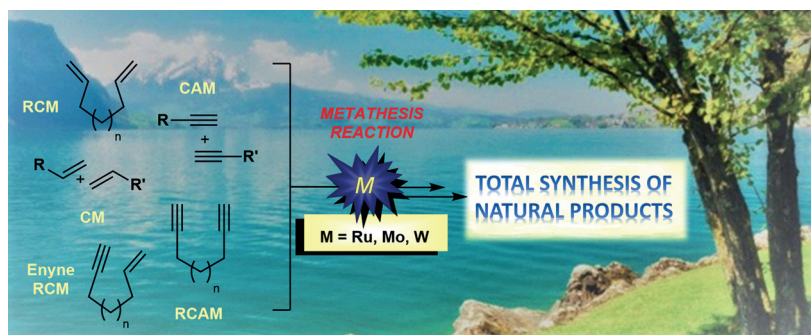
**I. Cheng-Sánchez**  
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## Recent Advances in Total Synthesis via Metathesis Reactions

Review

3749



## Synthesis

*Synthesis* **2018**, *50*, 3787–3808  
DOI: 10.1055/s-0037-1610210

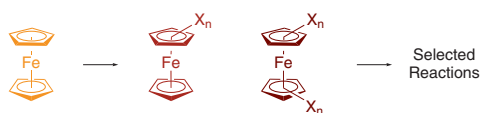
**H. Butenschön\***

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## Haloferrocenes: Syntheses and Selected Reactions

Review

3787



X = F, Cl, Br, I; n = 1–5

## Synthesis

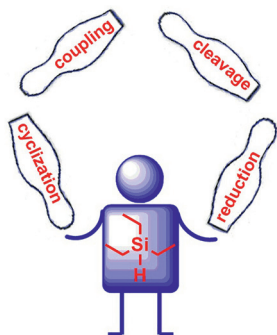
*Synthesis* **2018**, *50*, 3809–3824  
DOI: 10.1055/s-0037-1610107

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**M. Soral\***  
Palacký University,  
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## Recent Advances in the Applications of Triethylsilane in Organic Synthesis

Short Review

3809



## Synthesis

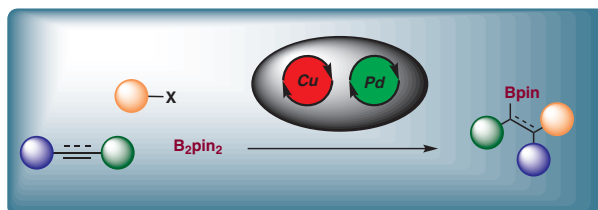
*Synthesis* **2018**, *50*, 3825–3832  
DOI: 10.1055/s-0037-1610434

**E. Rivera-Chao**  
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## Synergistic Bimetallic Catalysis for Carboboration of Unsaturated Hydrocarbons

Short Review

3825



## Synthesis

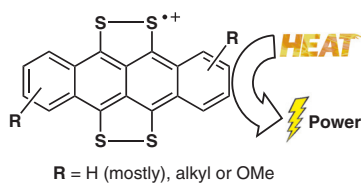
*Synthesis* **2018**, *50*, 3833–3842  
DOI: 10.1055/s-0037-1610208

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## Capturing Waste Heat Energy with Charge-Transfer Organic Thermoelectrics

Short Review

3833



## Synthesis

*Synthesis* **2018**, *50*, 3843–3861  
DOI: 10.1055/s-0037-1609583

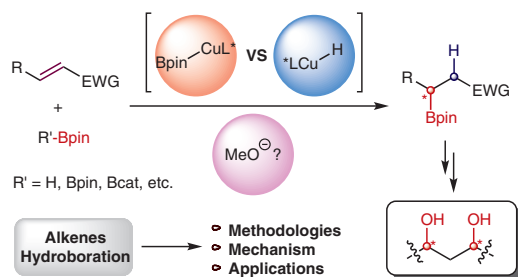
**J.-B. Chen**  
**A. Whiting\***

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## Recent Advances in Copper-Catalyzed Asymmetric Hydroboration of Electron-Deficient Alkenes: Methodologies and Mechanism

## Short Review

3843



## Synthesis

*Synthesis* **2018**, *50*, 3862–3874  
DOI: 10.1055/s-0037-1610246

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**T. W. Bousfield**  
**J. J. Dunsford**  
**J. Adams**  
**J. Britton**

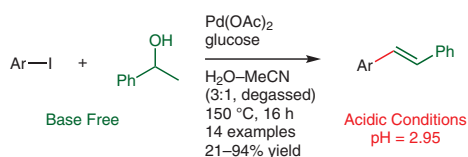
**M. W. Fay**  
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## Dehydrative Cross-Coupling of 1-Phenylethanol Catalysed by Palladium Nanoparticles Formed in situ Under Acidic Conditions

## Feature

3862



## Synthesis

*Synthesis* **2018**, *50*, 3875–3885  
DOI: 10.1055/s-0037-1609938

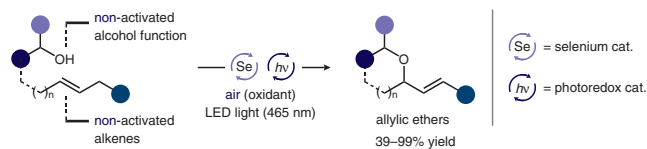
**K. Rode**  
**M. Palomba**  
**S. Orgtjes**  
**R. Rieger**  
**A. Breder\***

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Aerobic Allylation of Alcohols with Non-Activated Alkenes Enabled by Light-Driven Selenium- $\pi$ -Acid Catalysis

## Feature

3875



- broad functional group tolerance
- high regioselectivity
- 29 examples
- sustainable conditions

## Synthesis

## An Efficient One-Step Synthesis of Dihydroquinoline and Its Application as a Fluorescence Sensor for Selective Detection of Copper (II)

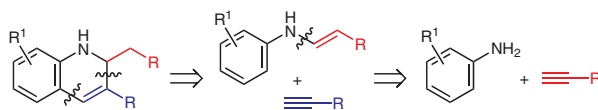
Paper

3886

*Synthesis* 2018, 50, 3886–3890  
DOI: 10.1055/s-0037-1609577

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## Synthesis

## Catalytic Pauson–Khand Reaction in Ethylene Glycol–Toluene: Activity, Selectivity, and Catalyst Recycling

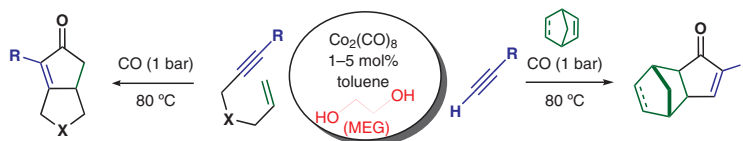
Paper

3891

*Synthesis* 2018, 50, 3891–3896  
DOI: 10.1055/s-0037-1610441

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- 11 examples
- enhanced yield and selectivity
- low catalyst loading (as low as 1 mol%)
- intramolecular and intermolecular
- biphasic system: catalyst recycling
- gram-scale synthesis

## Synthesis

## An Expedient Synthesis of Ketocalix[6]arene Hexamethyl Ether

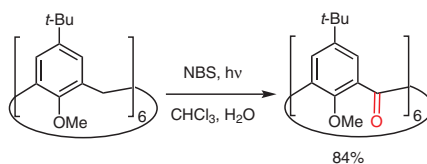
Paper

3897

*Synthesis* 2018, 50, 3897–3901  
DOI: 10.1055/s-0037-1609574

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## Synthesis

## Electrophilic Activation of Carboxylic Anhydrides for Nucleophilic Acylation Reactions

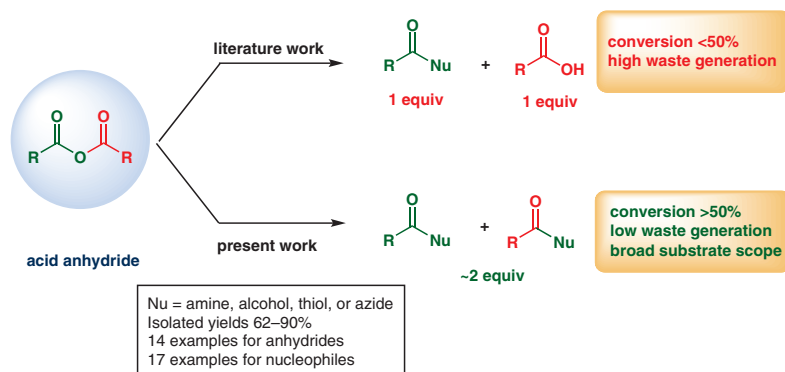
Paper

3902

*Synthesis* 2018, 50, 3902–3910  
DOI: 10.1055/s-0037-1609564

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## Synthesis

## An Effective Heterogeneous Copper Catalyst System for C–N Coupling and Its Application in the Preparation of 2-Methyl-4-methoxydiphenylamine (MMDPA)

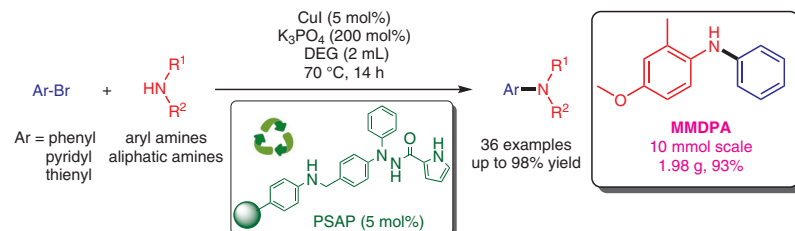
Paper

3911

*Synthesis* 2018, 50, 3911–3920  
DOI: 10.1055/s-0037-1609578

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M. Huang\*  
Y. Wan  
X. Zhu

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## Synthesis

## Divergent Syntheses of Carbazole Alkaloids

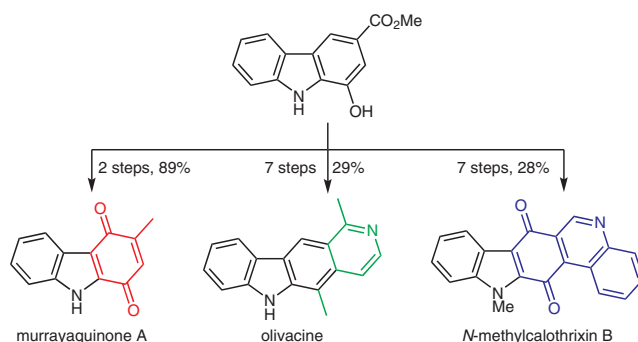
Paper

3921

*Synthesis* 2018, 50, 3921–3926  
DOI: 10.1055/s-0037-1610185

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## Synthesis

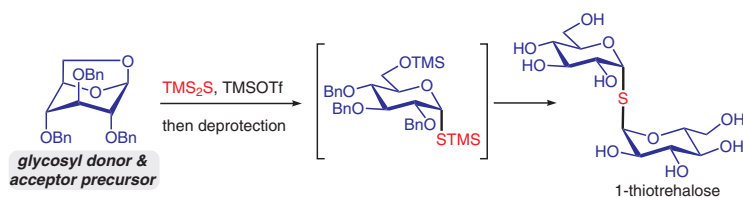
## An Expedient Synthesis of 1-Thiotrehalose

Paper

3927

*Synthesis* **2018**, *50*, 3927–3930  
DOI: 10.1055/s-0036-1591595

**D. Tardieu**  
**M. F. Céspedes Dávila**  
**D. Hazeldard**  
**P. Compain\***  
Université de Strasbourg, France



✓ Two-step synthesis ✓ Highly stereoselective ✓ Double thioglycosylation

## Synthesis

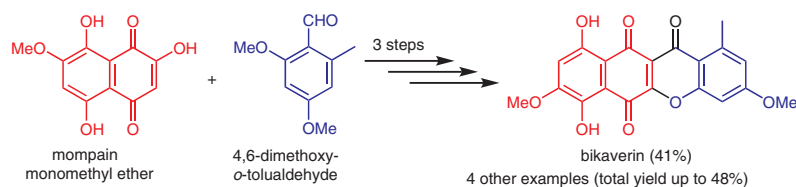
A Simple Route to Benzo[*b*]xanthene-6,11,12-triones: Synthesis of Bikaverin

Paper

3931

*Synthesis* **2018**, *50*, 3931–3935  
DOI: 10.1055/s-0036-1591587

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Bioorganic Chemistry, Russian  
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## Synthesis

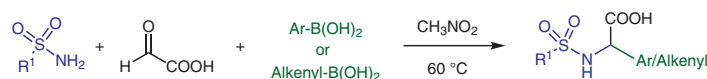
Sulfonamides as Amine Component in the Petasis-Borono Mannich Reaction: A Concise Synthesis of  $\alpha$ -Aryl- and  $\alpha$ -Alkenylglycine Derivatives

Paper

3936

*Synthesis* **2018**, *50*, 3936–3946  
DOI: 10.1055/s-0037-1610440

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**G. Manolikakes\***  
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38 examples  
up to 98% yield  
◦ first application of sulfonamides  
in classic Petasis reaction