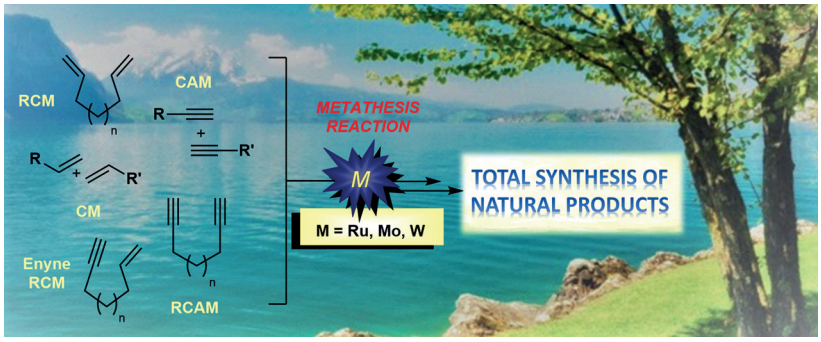
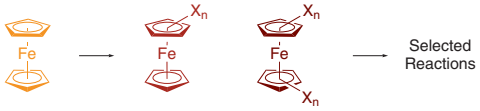
Synthesis

Reviews and Full Papers in Chemical Synthesis

2018
Vol. 50, No. 19
October I





X = F, Cl, Br, I; n = 1–5

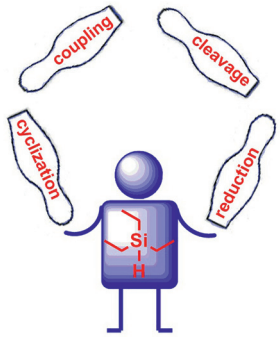
Synthesis

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

V. Ručilová
M. Soural*
Palacký University,
Czech Republic

Recent Advances in the Applications of Triethylsilane in Organic Synthesis

Short Review



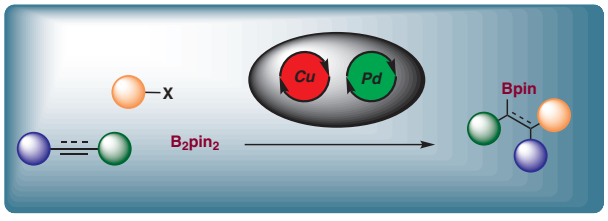
Synthesis

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

E. Rivera-Chao
L. Fra
M. Fañanás-Mastral*
Universidade de Santiago de
Compostela, Spain

Synergistic Bimetallic Catalysis for Carboboration of Unsaturated Hydrocarbons

Short Review



Synthesis

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

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Institute of Organic Chemistry
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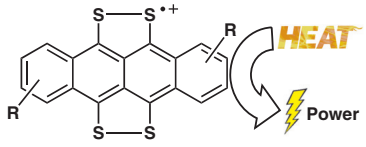
Bulgarian Academy of Sciences,
Bulgaria
University of Nottingham, U K

Capturing Waste Heat Energy with Charge-Transfer Organic Thermoelectrics

Short Review



R = H (mostly), alkyl or OMe

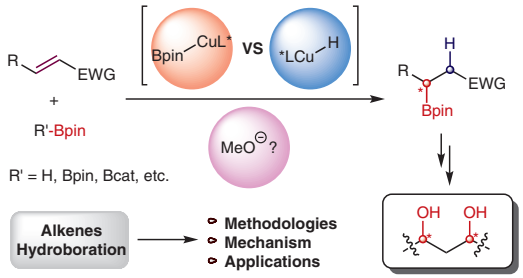
Synthesis

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

J.-B. Chen
A. Whiting*
Durham University, UK

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

Short Review



Synthesis

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

J. E. Camp*
T. W. Bousfield
J. J. Dunsford
J. Adams
J. Britton
M. W. Fay
A. Angelis-Dimakis
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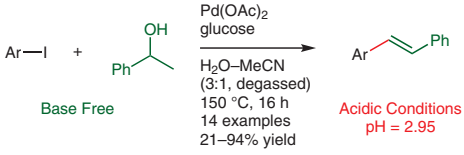
University of Huddersfield, UK

Dehydrative Cross-Coupling of 1-Phenylethanol Catalysed by Palladium Nanoparticles Formed in situ Under Acidic Conditions

Feature



Synthesis

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

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R. Rieger
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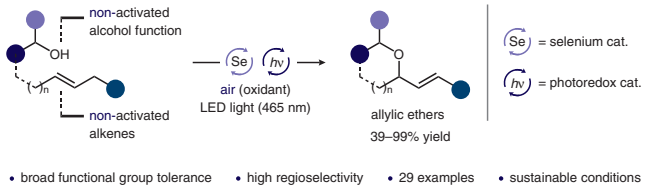
Aerobic Allylation of Alcohols with Non-Activated Alkenes Enabled by Light-Driven Selenium-π-Acid Catalysis

Feature



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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L. Jonsai
P. Sittapairoj
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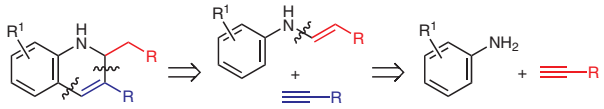

Synthesis

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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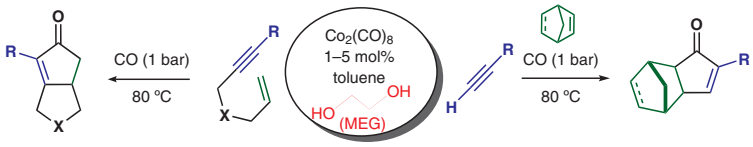

- 11 examples
- enhanced yield and selectivity
- low catalyst loading (as low as 1 mol%)
- intramolecular and intermolecular
- biphasic system: catalyst recycling
- gram-scale synthesis

Synthesis

An Expedient Synthesis of Ketocalix[6]arene Hexamethyl Ether

Paper

3897

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

N. Itzhak
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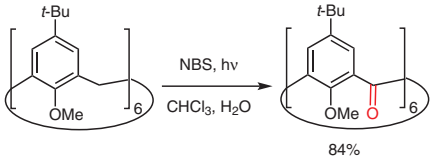
The Hebrew University of Jerusalem, Israel



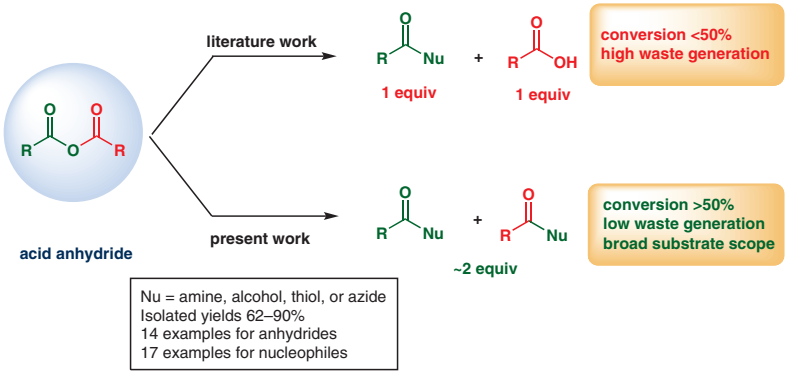
Synthesis

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

Electrophilic Activation of Carboxylic Anhydrides for Nucleophilic Acylation Reactions

Paper

V. Kumar
A. Rana
C. Lal Meena
N. Sharma
Y. Kumar
D. Mahajan*
Translational Health Science and Technology Institute, India



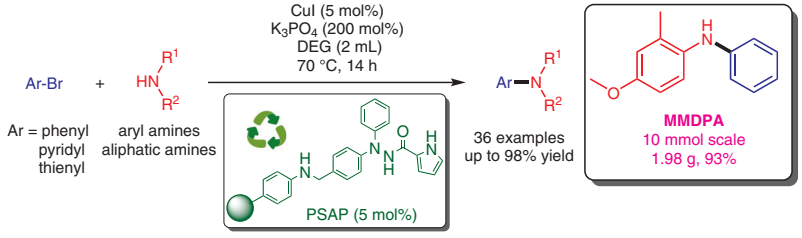
Synthesis

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

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

Paper

Z. Yi
M. Huang*
Y. Wan
X. Zhu
Sun Yat-sen University, P. R. of China



Synthesis

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

Divergent Syntheses of Carbazole Alkaloids

Paper

F. Ji
H. Huang
M. Li
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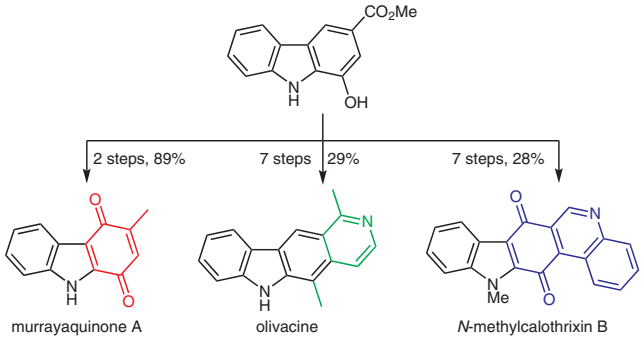
J. Chang*
Zhengzhou University, P. R. of China
Collaborative Innovation Center of New Drug Research and Safety Evaluation, P. R. of China



Synthesis

An Expeditious Synthesis of 1-Thiotrehalose

Paper

3927

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

D. Tardieu
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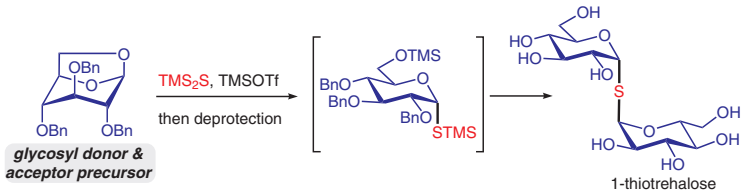
Université de Strasbourg, France



✓ 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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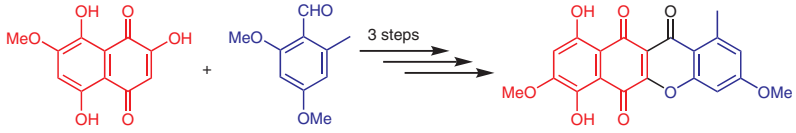
V. Ph. Anufriev*
G. B. Elaykov Pacific Institute of Bioorganic Chemistry, Russian Federation



Synthesis

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

Paper

3936

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

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O. Ouadoudi
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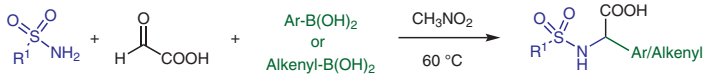

38 examples
up to 98% yield
° first application of sulfonamides in classic Petasis reaction