

Synthesis

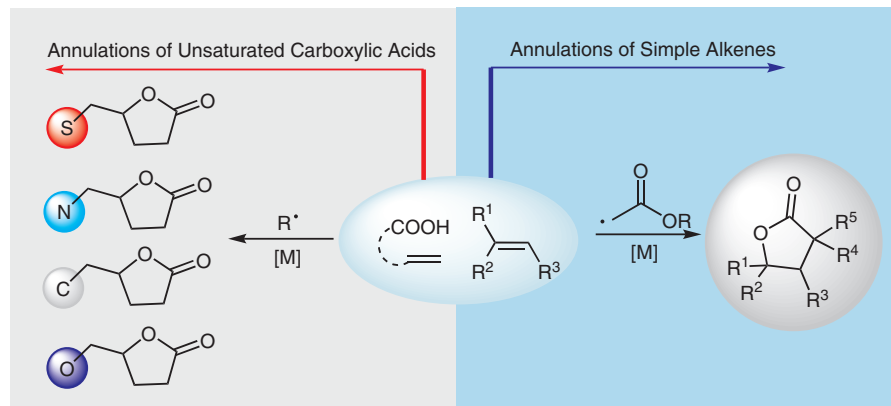
Reviews and Full Papers in Chemical Synthesis

December 17, 2020 • Vol. 52, 3693–3890

Special Topic

Recent Advances in Metal-Catalyzed
Ring Construction

Editor: Franziska Schoenebeck



Radical Strategy for the Transition-Metal-Catalyzed Synthesis of γ -Lactones: A Review

B. Wei, K.-W. Li, Y.-C. Wu, S.-Q. Tong, R.-J. Song

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Synthesis

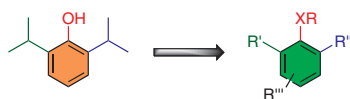
Syntheses of Analogues of Propofol: A Review

Review

Synthesis **2020**, 52, 3693–3713
DOI: 10.1055/s-0040-1707287

I. V. Dimitrov*
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*propofol: the most widely used
intravenous general anaesthetic*

3693

Synthesis

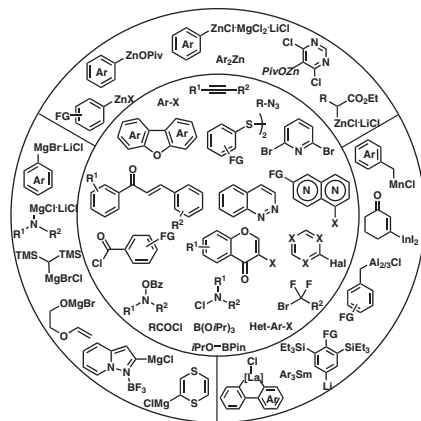
Recent Progress in Utilization of Functionalized Organometallic Reagents in Cross Coupling Reactions and Nucleophilic Additions

Short Review

Synthesis **2020**, 52, 3714–3734
DOI: 10.1055/s-0040-1706550

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3714

Synthesis

Synthesis **2020**, 52, 3735–3750
DOI: 10.1055/s-0040-1707386

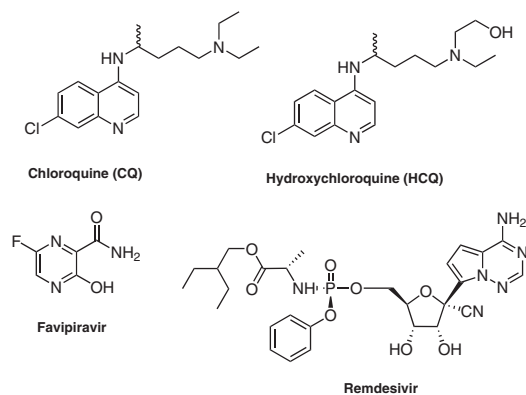
N. Al Bujug*

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Kingdom of Saudi Arabia

Methods of Synthesis of Remdesivir, Favipiravir, Hydroxychloroquine, and Chloroquine: Four Small Molecules Repurposed for Clinical Trials during the Covid-19 Pandemic

Short Review

3735



Synthesis

Synthesis **2020**, 52, 3751–3763
DOI: 10.1055/s-0040-1707342

X. Pang

X. Peng

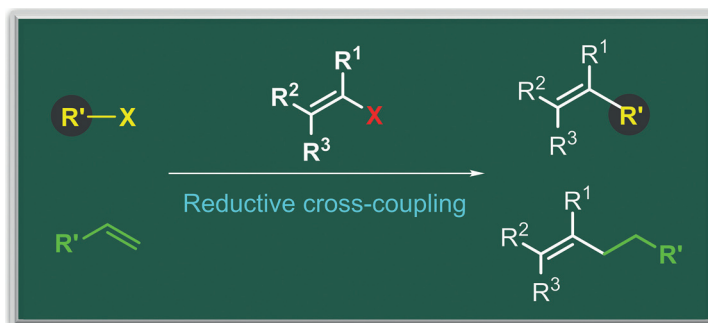
X.-Z. Shu*

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Reductive Cross-Coupling of Vinyl Electrophiles

Short Review

3751



Synthesis

Synthesis **2020**, 52, 3764–3780
DOI: 10.1055/s-0040-1707255

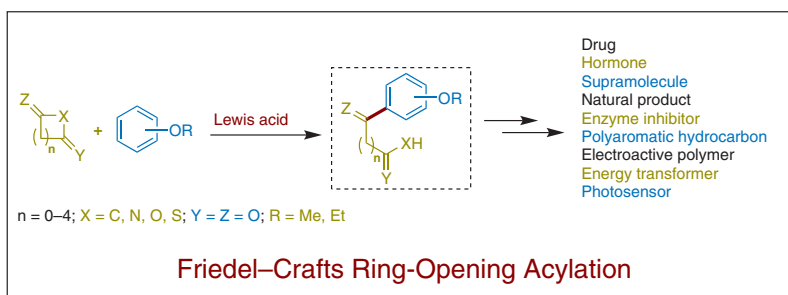
R. Talukdar*

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Synthetically Important Ring-Opening Acylations of Alkoxybenzenes

Short Review

3764



Synthesis

Synthesis **2020**, 52, 3781–3800
DOI: 10.1055/s-0040-1707253

J. Yu

A. S. Singh

G. Yan*

J. Yu

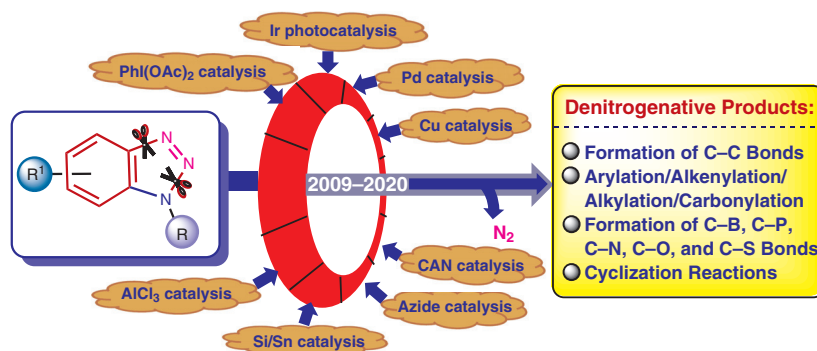
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Recent Developments on Denitrogenative Functionalization of Benzotriazoles

Short Review

3781



Synthesis

Synthesis **2020**, 52, 3801–3810
DOI: 10.1055/s-0040-1707294

K. Banert*

M. Heck

A. Ihle

E. Michael

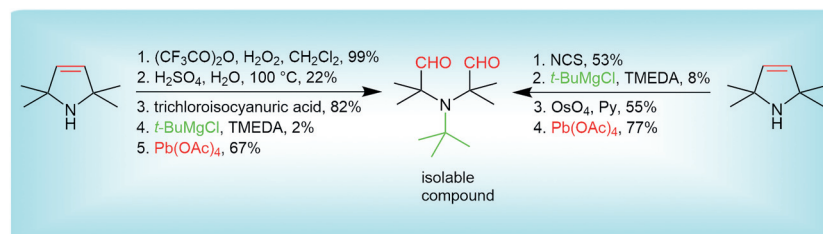
R. Weber

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Record-Breaking Steric Crowding in Trialkylamines Prepared by Oxidative Ring Opening

Feature

3801



Synthesis

Synthesis **2020**, 52, 3811–3817
DOI: 10.1055/s-0040-1706471

K. Moriguchi

T. Kono

S. Seko

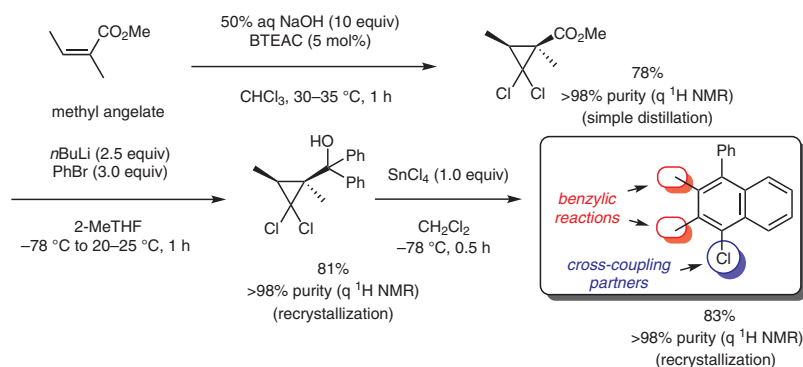
Y. Tanabe*

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Gram-Scale Robust Synthesis of 1-Chloro-2,3-dimethyl-4-phenyl-naphthalene: A Promising Scaffold with Three Contiguous Reaction Positions

PSP

3811



Synthesis

Synthesis 2020, 52, 3818–3836
DOI: 10.1055/s-0040-1707355

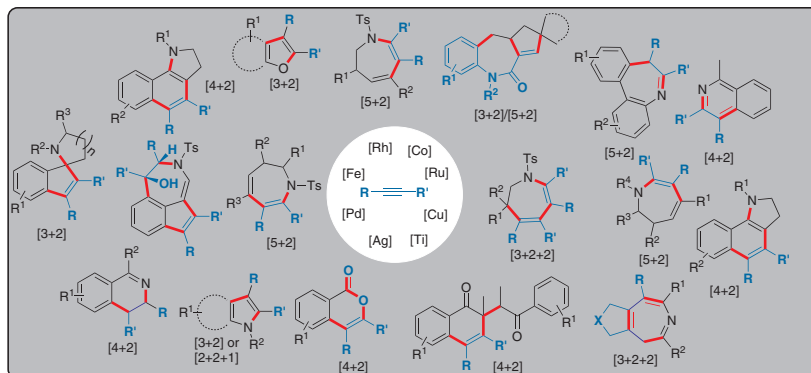
J.-H. Qin
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Recent Advances in Cycloaddition Reactions with Alkynes to Construct Heterocycles

Special Topic

3818



Synthesis

Synthesis 2020, 52, 3837–3854
DOI: 10.1055/s-0040-1707905

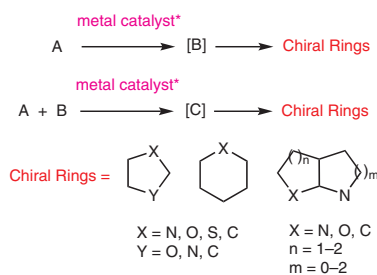
H. Pellissier*

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The Use of Domino Reactions for the Synthesis of Chiral Rings

Special Topic

3837



Synthesis

Synthesis 2020, 52, 3855–3864
DOI: 10.1055/s-0040-1707835

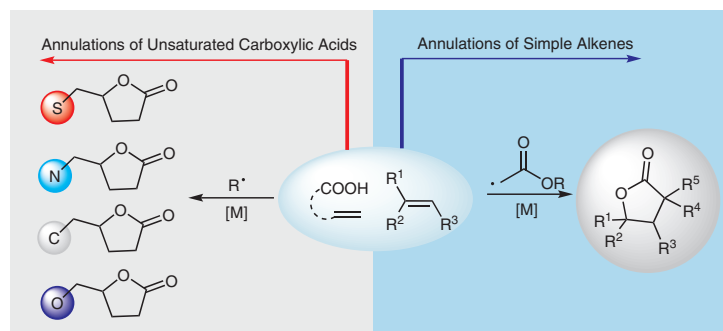
B. Wei
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Radical Strategy for the Transition-Metal-Catalyzed Synthesis of γ -Lactones: A Review

Special Topic

3855



Synthesis

Synthesis 2020, 52, 3865–3873
DOI: 10.1055/s-0040-1707863

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Iridium(III)-Catalyzed Difluoroalkylation–Bicyclization of 1,7-Enynes toward Benzo[*a*]fluoren-5-ones under Visible-Light Photoredox Conditions

Special Topic

3865



Synthesis

Synthesis 2020, 52, 3874–3880
DOI: 10.1055/s-0040-1707285

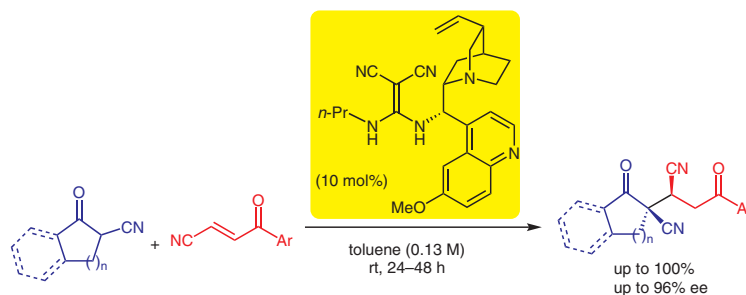
H. Akutsu
K. Nakashima
Y. Kanetsuna
M. Kawada
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T. Miura*

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Asymmetric Conjugate Addition of α -Cyanoketones to Benzoyl Acrylonitrile Derivatives Using a Diaminomethylenemalononitrile Organocatalyst

Paper

3874



Synthesis

Synthesis 2020, 52, 3881–3890
DOI: 10.1055/s-0039-1690087

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Z. Zhang
Y. Wang
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Electrophilic Amination with Anthranils through Thioamide-Assisted Cobalt(III)-Catalyzed C(sp³)-H Activation

Paper

3881

