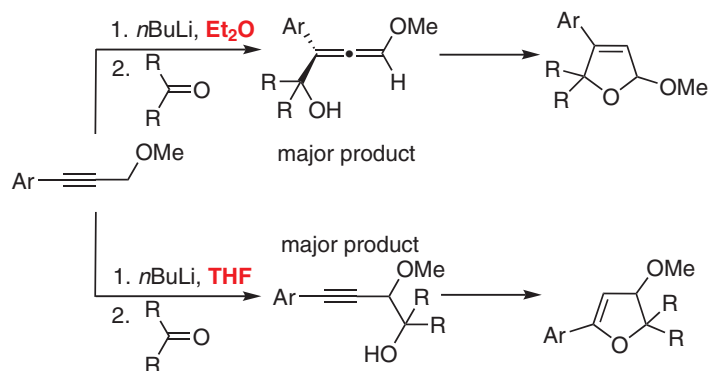


# Synthesis

Reviews and Full Papers in Chemical Synthesis

February 16, 2021 • Vol. 53, 587–784



Reaction of Lithiated Propargyl Ethers with Carbonyl Compounds  
– A Regioselective Route to Furan Derivatives

*J. Linder, R. Klemme, H.-U. Reissig*

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## Synthesis

*Synthesis* 2021, 53, 587–610  
DOI: 10.1055/s-0040-1707328

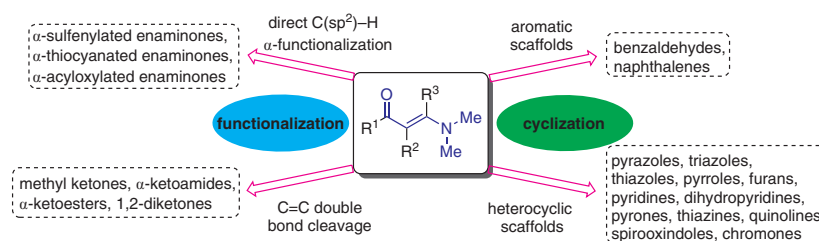
J. Huang  
F. Yu\*

Kunming University of Science  
and Technology, P. R. of China

## Recent Advances in Organic Synthesis Based on *N,N*-Dimethyl Enaminones

Review

587



## Synthesis

*Synthesis* 2021, 53, 611–622  
DOI: 10.1055/s-0040-1705947

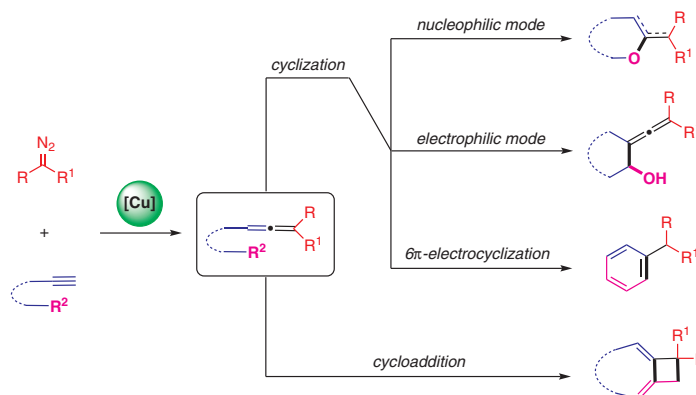
N. Chen  
M. He  
T. Zhou  
Y. Zhu  
H. Zhang  
S. Peng\*

Wuyi University, P. R. of China

## Recent Advances in the Tandem Cyclization/Cycloaddition of Allene Intermediates from Copper-Catalyzed Cross-Coupling of Diazo Compounds with Terminal Alkynes

Short Review

611



## Synthesis

Synthesis 2021, 53, 623–635  
DOI: 10.1055/s-0040-1705946

L. Wang

J. Ma

E. Si

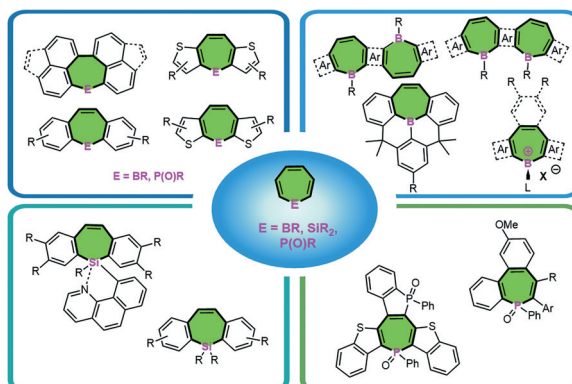
Z. Duan\*

Zhengzhou University,  
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## Recent Advances in Luminescent Annulated Borepins, Silepins, and Phosphepins

## Short Review

623



## Synthesis

Synthesis 2021, 53, 636–652  
DOI: 10.1055/s-0040-1707327

K. Xu

Z. Wang

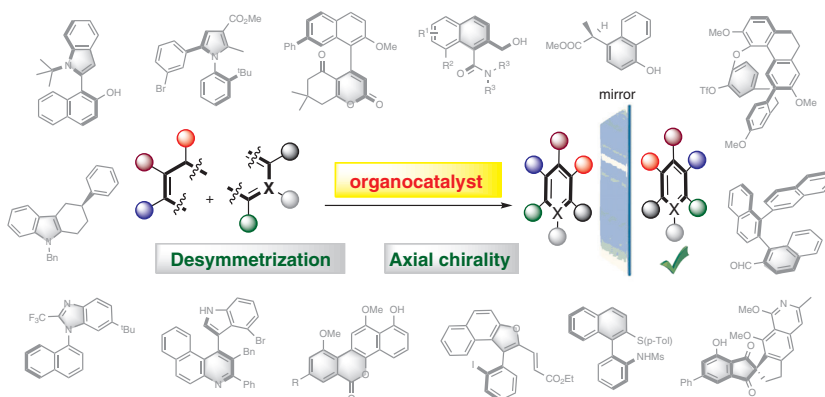
T. Zhu\*

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## Recent Progress towards Organocatalyzed Asymmetric (Hetero)Arene Formation

## Short Review

636



## Synthesis

Synthesis 2021, 53, 653–665  
DOI: 10.1055/s-0040-1705951

M. Gonay

C. Batisse

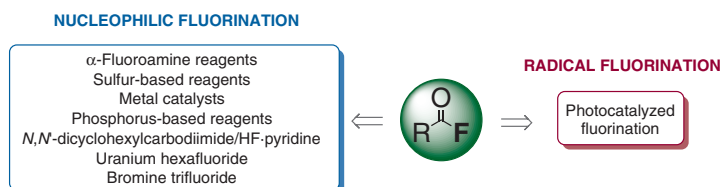
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## Recent Advances in the Synthesis of Acyl Fluorides

## Short Review

653



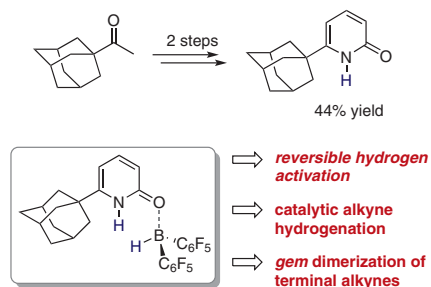
## Synthesis

## Synthesis of 6-Adamantyl-2-pyridone and Reversible Hydrogen Activation by the Corresponding Bis(perfluorophenyl)borane Complex

Synthesis 2021, 53, 666–672  
DOI: 10.1055/s-0040-1705970

F. Wech  
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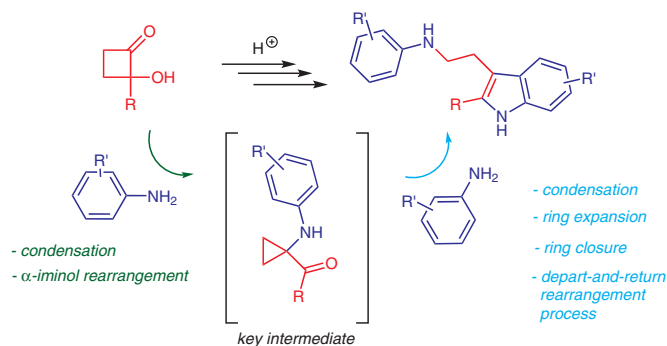
## Synthesis

Synthesis of Tryptamines through a Novel Brønsted Acid Mediated Tandem Reaction Initiated by  $\alpha$ -Iminol Rearrangement of Transient 2-Substituted 2-Hydroxycyclobutylamines

Synthesis 2021, 53, 673–681  
DOI: 10.1055/s-0040-1706587

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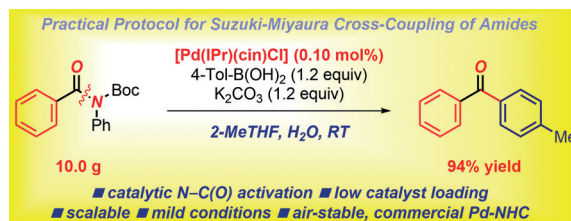
## Synthesis

Protocol for Palladium/*N*-Heterocyclic Carbene-Catalyzed Suzuki–Miyaura Cross-Coupling of Amides by *N*-C(O) Activation

Synthesis 2021, 53, 682–687  
DOI: 10.1055/s-0040-1705956

P. Lei\*  
G. Li  
Y. Ling  
J. An  
S. P. Nolan  
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## Synthesis

Synthesis 2021, 53, 688–698  
DOI: 10.1055/s-0040-1706543

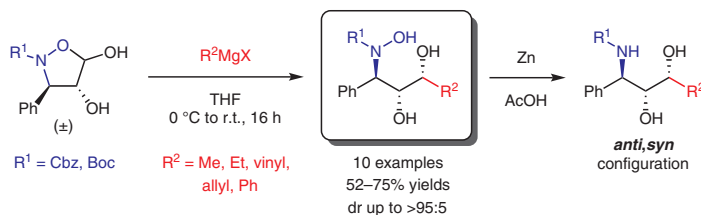
L. Ďurina  
T. Malatinský  
J. Moncol  
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Highly Diastereoselective Reactions of Isoxazolidine-4,5-diols with Grignard Reagents: A New Approach to *anti,syn*- $\gamma$ -Amino- $\alpha,\beta$ -diols

Paper

688



## Synthesis

Synthesis 2021, 53, 699–712  
DOI: 10.1055/s-0040-1707322

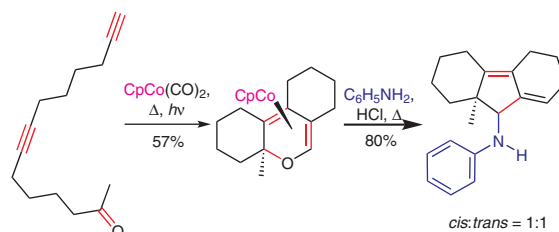
V. Colovray-Gotteland  
D. F. Harvey  
B. M. Johnson  
C. S. Ung  
K. P. C. Vollhardt\*

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Inter- and Intramolecular [2+2+2] Cycloaddition of Alkyne Triple Bonds to the Carbonyl Function of Aldehydes and Ketones Enabled by  $\eta^5$ -Cyclopentadienylcobalt(L)(L')

Paper

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## Synthesis

Synthesis 2021, 53, 713–722  
DOI: 10.1055/s-0040-1707293

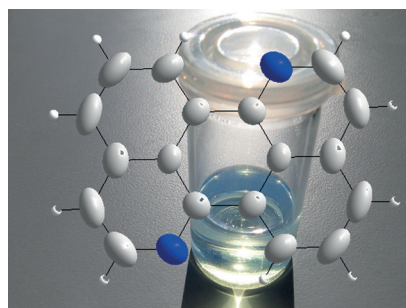
H. Langhals\*  
S. Reichherzer  
P. Mayer  
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## A Three-Step Synthesis of 1,7-Diazaperylene and Derivatives

Paper

713



## Synthesis

Synthesis 2021, 53, 723–730  
DOI: 10.1055/s-0040-1705957

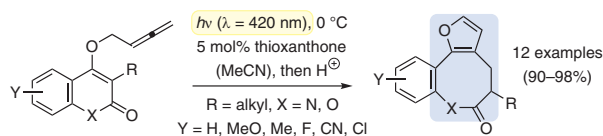
X. Li  
C. Jandl  
T. Bach\*

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### Synthesis of Azocane- and Oxocane-Annulated Furans by a [2+2] Photocycloaddition–Ring-Opening Cascade

Paper

723



## Synthesis

Synthesis 2021, 53, 731–753  
DOI: 10.1055/s-0040-1706547

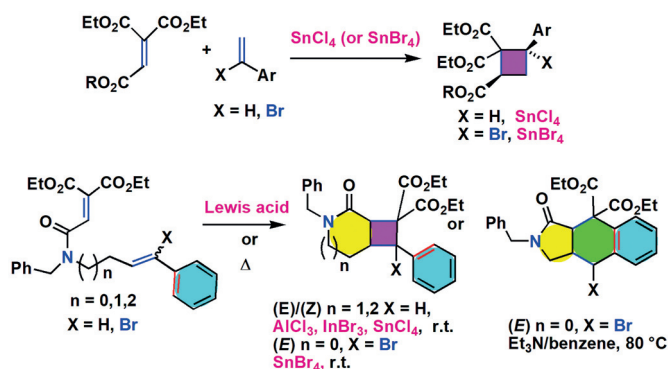
S. Yamazaki\*  
Z. Wang  
K. Iwata  
K. Katayama  
H. Sugiura  
Y. Mikata  
T. Morimoto  
A. Ogawa

Nara University of Education,  
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### Inter- and Intramolecular Cycloaddition Reactions of Ethenetricarboxylates with Styrenes and Halostyrenes

Paper

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## Synthesis

Synthesis 2021, 53, 754–764  
DOI: 10.1055/s-0040-1707323

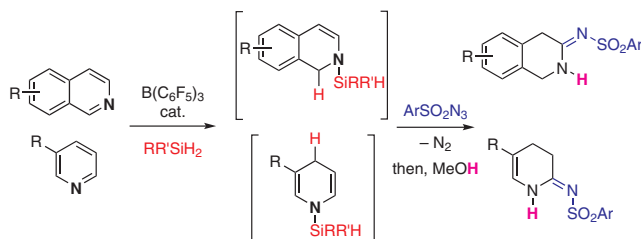
V. D. Cao  
D. G. Jo  
H. Kim  
C. Kim  
S. Yun  
S. Jung\*

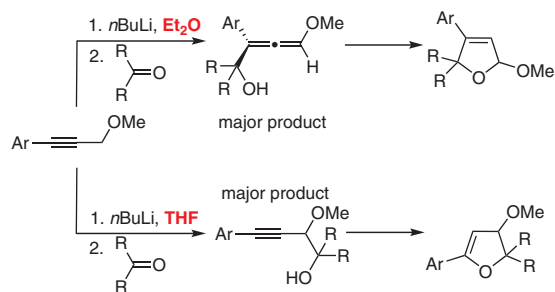
Mokpo National University,  
South Korea

### Utilization of Borane-Catalyzed Hydrosilylation as a Dearomatizing Tool: Six-Membered Cyclic Amidine Synthesis from Isoquinolines and Pyridines

Paper

754



Reaction of Lithiated Propargyl Ethers with Carbonyl Compounds –  
A Regioselective Route to Furan DerivativesFrom Furan–Yne Systems to *para*-Benzoquinone Derivatives:  
Gold-Catalyzed Cyclization and Oxidation, and Further Reduction by  
Sodium Dithionate