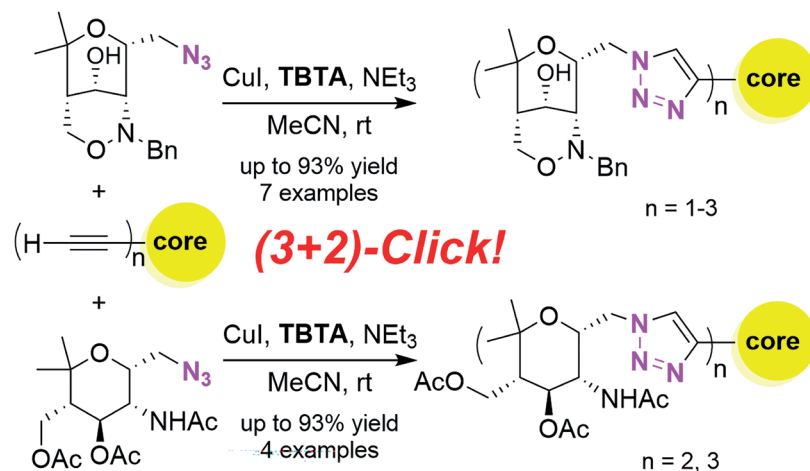


# Synthesis

Reviews and Full Papers in Chemical Synthesis

March 1, 2024 • Vol. 56, 701–886



Synthesis of Novel Enantiopure Amino- and Azidopyran Building Blocks and Their Click Reactions to Multivalent Carbohydrate Mimetics

P. Koóš, H.-U. Reissig

5



Thieme

## Synthesis

## The Electrocyclization of Heptatrienyl Anions

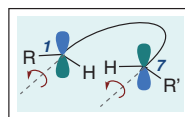
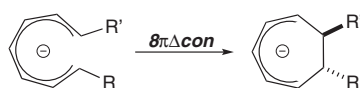
## Review

701

*Synthesis* 2024, 56, 701–713  
DOI: 10.1055/s-0040-1720086

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## Synthesis

## Modern Macrolactonization Techniques

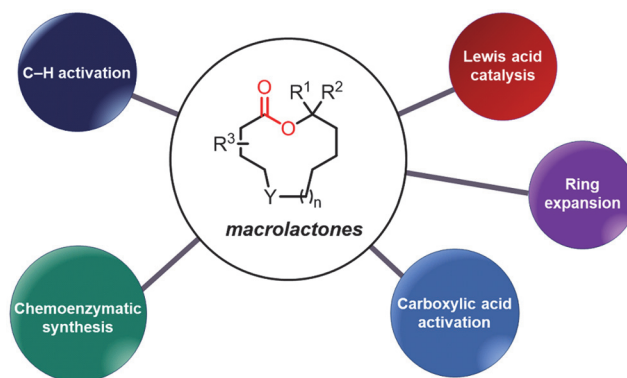
## Short Review

714

*Synthesis* 2024, 56, 714–732  
DOI: 10.1055/a-2181-9800

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## Synthesis

Synthesis 2024, 56, 733–750  
DOI: 10.1055/s-0042-1751503

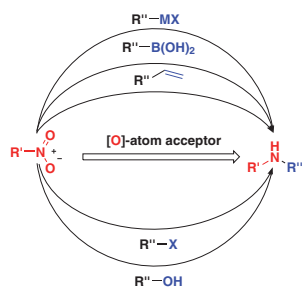
T. Li  
A. S. Chan\*  
S.-S. Meng\*

University of Chinese Academy  
of Sciences (UCAS Chongqing),  
P. R. of China  
Sun Yat-sen University,  
P. R. of China

## Direct Reductive Coupling of Nitro Compounds for the Synthesis of Advanced Amines

## Short Review

733



## Synthesis

Synthesis 2024, 56, 751–757  
DOI: 10.1055/a-2218-7534

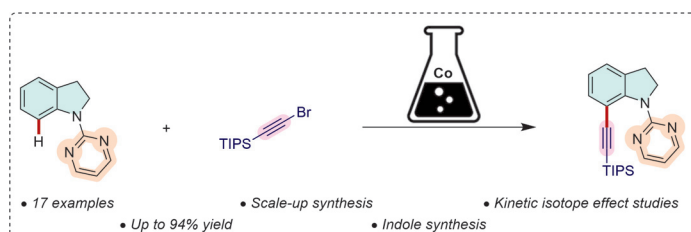
Manisha  
S. S. Gupta  
U. Sharma\*

CSIR-IHBT, Palampur, India  
Academy of Scientific and Inno-  
vative Research (AcSIR), India

## Cobalt Catalysis: C7 Alkynylation of Indolines with a Bromoalkyne

## Feature

751



## Synthesis

Synthesis 2024, 35, 758–762  
DOI: 10.1055/a-2222-3695

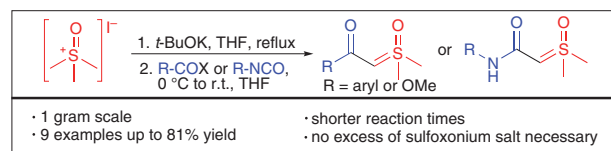
J. H. de Souza  
J. A. Vargas  
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## An Improved Protocol for the Synthesis of Carbonyl Sulfoxonium Ylides

## PSP

758



## Synthesis

## Synthesis of Ser-Ala-Ala Cyclic Desmosine

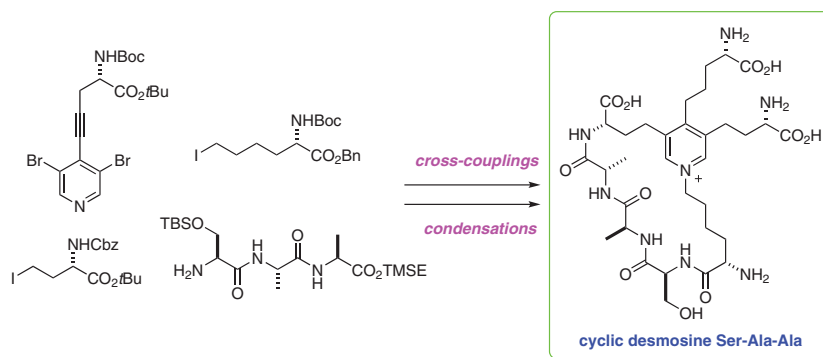
Paper

763

Synthesis 2024, 56, 763–770  
DOI: 10.1055/a-2205-7105

S. Satoh  
D. A. Baut  
M. Hirao  
D. Watanabe  
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## Synthesis

Mild Metal-Free 1,2-Dichlorination of Alkynes by NCS-PPh<sub>3</sub>-H<sub>2</sub>O System

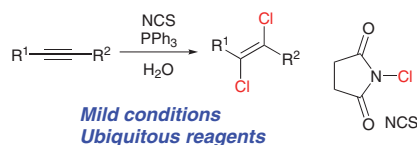
Paper

771

Synthesis 2024, 56, 771–776  
DOI: 10.1055/a-2218-7443

J. Yuan  
N. I. Prakoso  
T. Morozumi  
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## Synthesis

Synthetic Access to 1,3-Butadiynes via Electro-redox Cuprous-Catalyzed Dehydrogenative C<sub>sp</sub>-C<sub>sp</sub> Homocoupling of Terminal Acetylenes

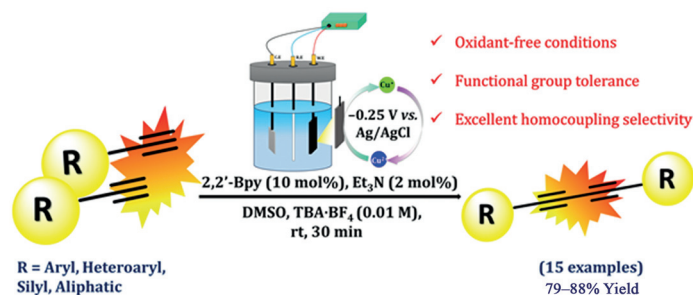
Paper

777

Synthesis 2024, 56, 777–786  
DOI: 10.1055/a-2206-6023

M. Krishnan  
M. Kathiresan\*  
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## Synthesis

Synthesis 2024, 56, 787–794  
DOI: 10.1055/a-2206-3750

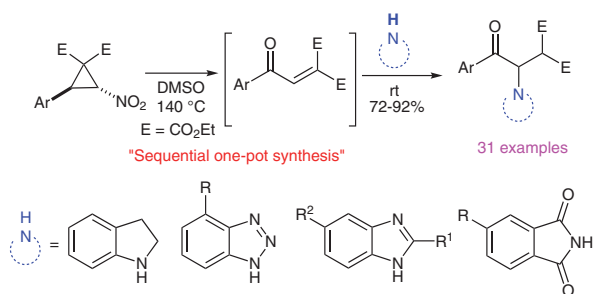
S. Selvi  
M. Meenakshi  
C. Visalini  
K. Srinivasan\*

Bharathidasan University, India

Sequential One-Pot Synthesis of  $\beta$ -Amino- $\gamma$ -keto-malonates from Nitro-Substituted Donor–Acceptor Cyclopropanes

Paper

787



## Synthesis

Synthesis 2024, 56, 795–808  
DOI: 10.1055/s-0043-1763619

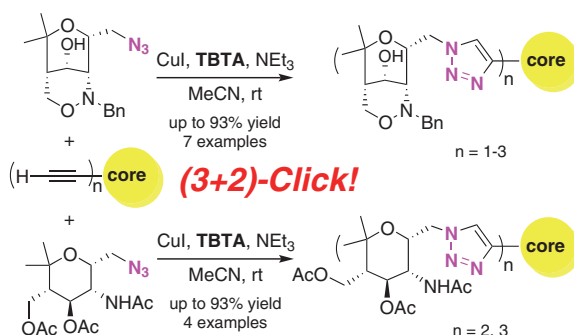
P. Kooš  
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## Synthesis of Novel Enantiopure Amino- and Azidopyran Building Blocks and Their Click Reactions to Multivalent Carbohydrate Mimetics

Paper

795



## Synthesis

Synthesis 2024, 56, 809–820  
DOI: 10.1055/s-0042-1751539

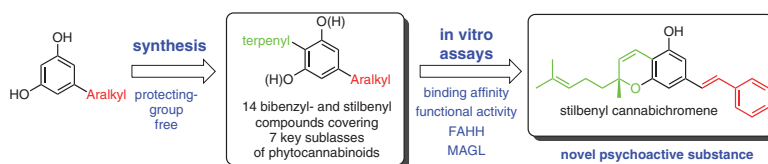
E. N. Jordan  
G.-N. Nguyen  
I. Reynoso-Moreno  
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Technical University Dortmund,  
Germany

## Synthesis of Stilbenyl and Bibenzyl Cannabinoids and Analysis of Their Cannabimimetic Potential

Paper

809



## Synthesis

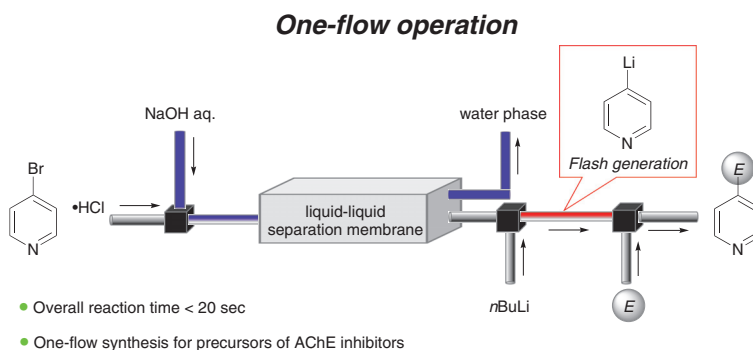
Synthesis 2024, 56, 821–827  
DOI: 10.1055/a-2218-9048

H. Soutome  
Y. Kimuro  
T. Kawaguchi  
D.-e. Yoo  
Y. Yao  
S. Oshida  
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M. Iwata  
R. Ebisawa  
R. Kikuchi  
K. Tomite  
S. Wada  
Y. Ashikari, A. Nagaki\*  
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## One-Flow Operation via 4-Bromopyridine Enables Flash Synthesis of AChE Inhibitor

Paper

821



## Synthesis

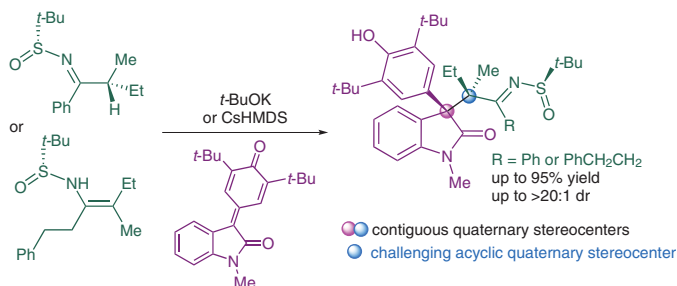
Synthesis 2024, 56, 828–850  
DOI: 10.1055/a-2223-3803

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Stereoselective Construction of Vicinal Quaternary Stereocenters via the 1,6-Conjugate Addition of  $\beta,\beta$ -Disubstituted *N*-Sulfinyl Metallo-enamines to Isatin-Derived *para*-Quinone Methides

Paper

828



## Synthesis

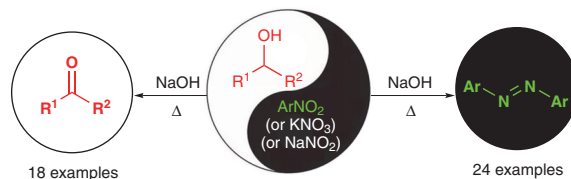
Synthesis 2024, 56, 851–859  
DOI: 10.1055/a-2226-4152

R. Ma  
R. Zhang  
H. Qiu  
J. Xie  
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## Nitro Compounds/Alcohols as Oxidant/Reductant Pairs: A Practical Synthesis of Azo Compounds and Ketones

Paper

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## Synthesis

## Synthesis of All Regioisomers of 2-Arylazaindole-3-acetic Acid Derivatives

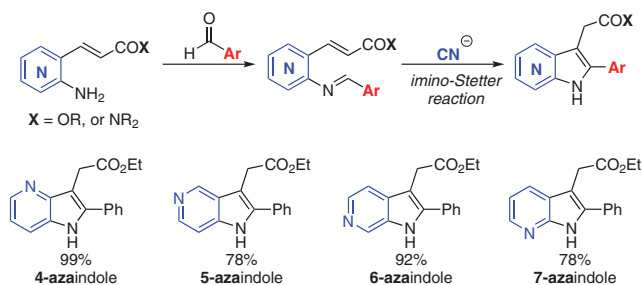
Paper

860

*Synthesis* 2024, 56, 860–870  
DOI: 10.1055/a-2206-5900

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C. Jeong  
E. Park  
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Y.-J. Kim  
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Republic of Korea



## Synthesis

Stereodivergent Synthesis of *rac-cis*- and *rac-trans*-4-Hydroxyphosphopipelic Acids

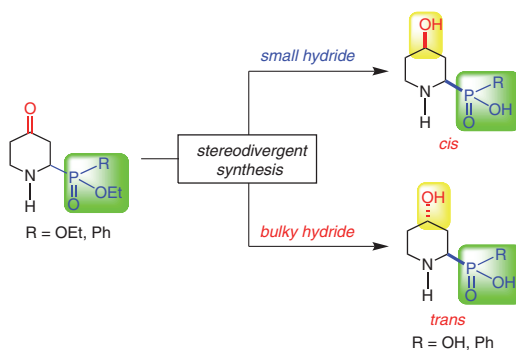
Paper

871

*Synthesis* 2024, 56, 871–877  
DOI: 10.1055/a-2211-2343

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R. O. Argüello-Velasco  
J. L. Viveros-Ceballos  
V. Labastida-Galván

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## Synthesis

## Regioselective Synthesis of 2,4- and 2,5-Disubstituted 1,3-Thiazoles from 2-Oxo-2-(amino)ethanedithioates via Base-Catalyzed Cyclization

Paper

878

*Synthesis* 2024, 56, 878–886  
DOI: 10.1055/a-2210-6357

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