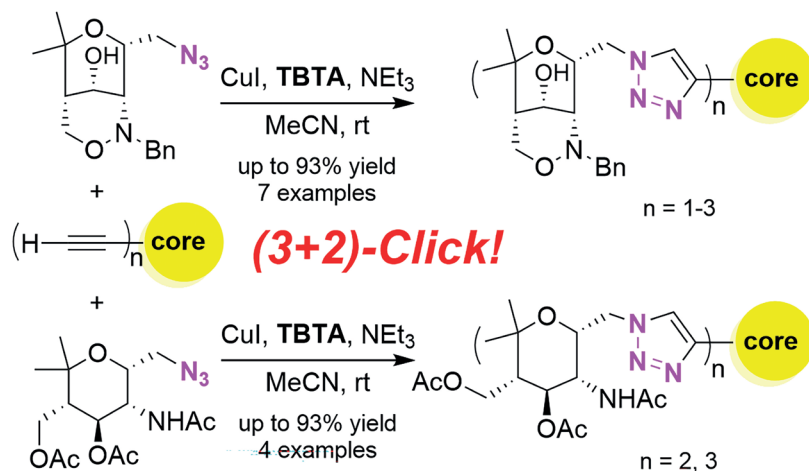


Synthesis

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

Synthesis

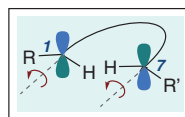
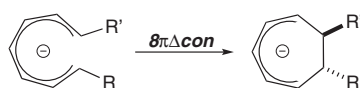
The Electrocyclization of Heptatrienyl Anions

Review

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

S. Komijani
A. Orellana*

York University, Canada



701

Synthesis

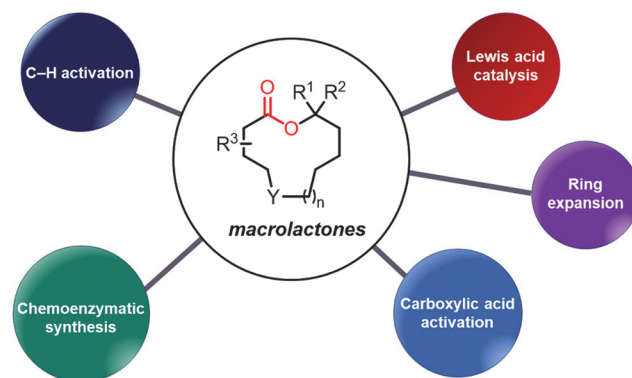
Modern Macrolactonization Techniques

Short Review

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

M. Van Hoof
G. Force
D. Leboeuf*

Université de Strasbourg, France



714

Synthesis

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

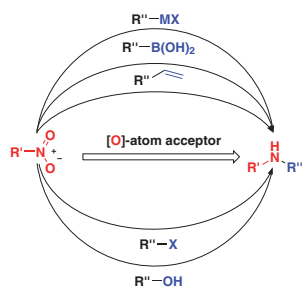
T. Li
A. S. Chan*
S.-S. Meng*

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

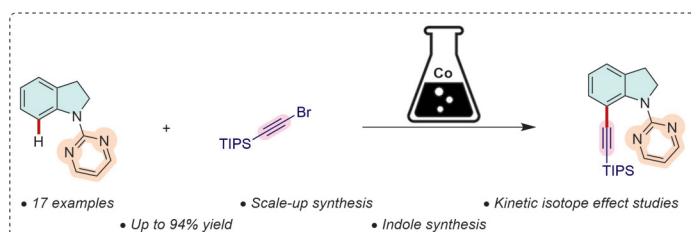
Manisha
S. S. Gupta
U. Sharma*

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

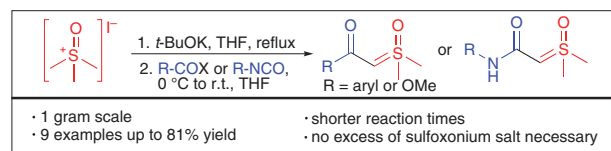
J. H. de Souza
J. A. Vargas
A. C. Burtoloso*

University of São Paulo, Brazil

An Improved Protocol for the Synthesis of Carbonyl Sulfoxonium Ylides

PSP

758



- 1 gram scale
- 9 examples up to 81% yield
- shorter reaction times
- no excess of sulfoxonium salt necessary

Synthesis

Synthesis of Ser-Ala-Ala Cyclic Desmosine

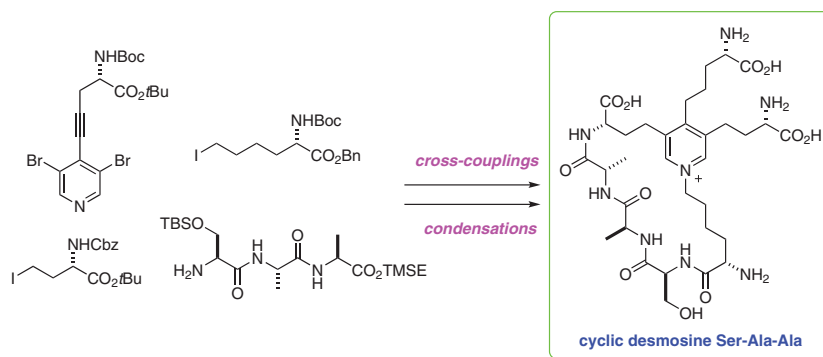
Paper

763

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

S. Satoh
D. A. Baut
M. Hirao
D. Watanabe
R. Suzuki
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Synthesis

Mild Metal-Free 1,2-Dichlorination of Alkynes by NCS-PPh₃-H₂O System

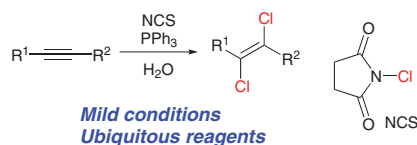
Paper

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_{sp}-C_{sp} Homocoupling of Terminal Acetylenes

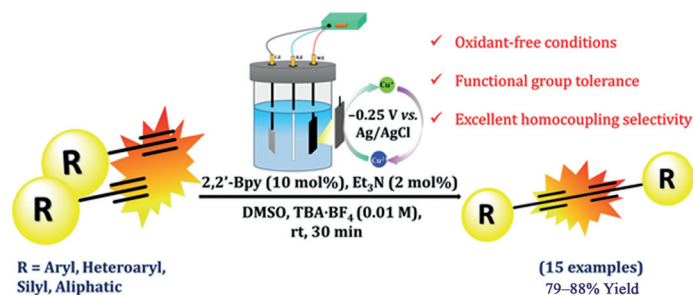
Paper

777

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

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Synthesis

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

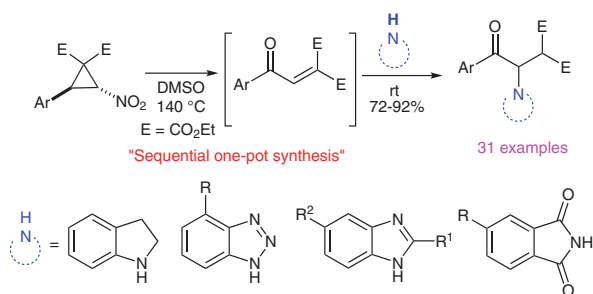
S. Selvi
M. Meenakshi
C. Visalini
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Bharathidasan University, India

Sequential One-Pot Synthesis of β -Amino- γ -keto-malonates from Nitro-Substituted Donor–Acceptor Cyclopropanes

Paper

787



Synthesis

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

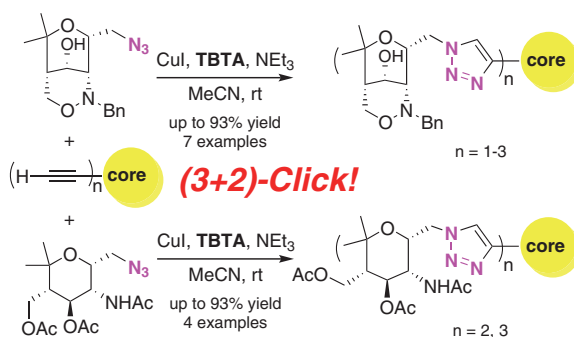
P. Kooš
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Synthesis of Novel Enantiopure Amino- and Azidopyran Building Blocks and Their Click Reactions to Multivalent Carbohydrate Mimetics

Paper

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Synthesis

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

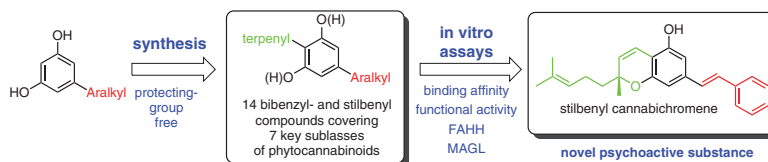
E. N. Jordan
G.-N. Nguyen
I. Reynoso-Moreno
J. Gertsch
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Synthesis of Stilbenyl and Bibenzyl Cannabinoids and Analysis of Their Cannabimimetic Potential

Paper

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Synthesis

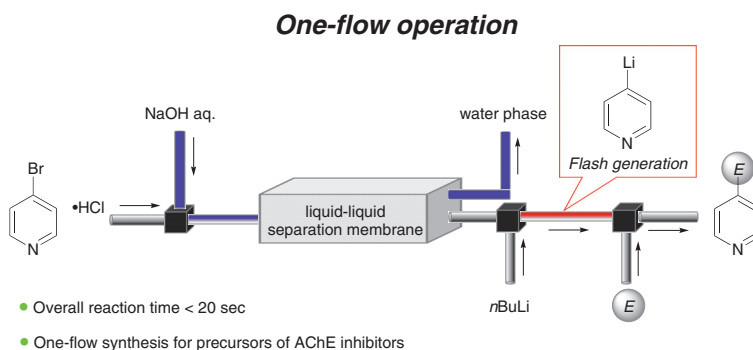
Synthesis 2024, 56, 821–827
DOI: 10.1055/a-2218-9048

H. Soutome
Y. Kimuro
T. Kawaguchi
D.-e. Yoo
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S. Wada
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One-Flow Operation via 4-Bromopyridine Enables Flash Synthesis of AChE Inhibitor

Paper

821



Synthesis

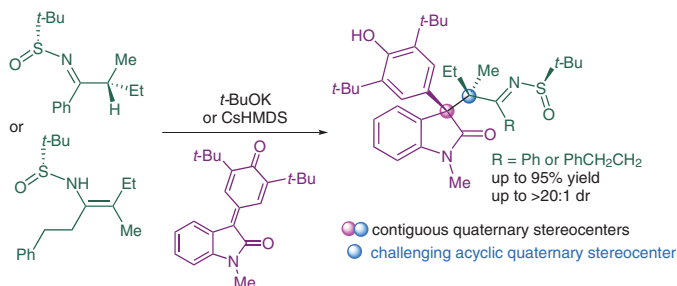
Synthesis 2024, 56, 828–850
DOI: 10.1055/a-2223-3803

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

Paper

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Synthesis

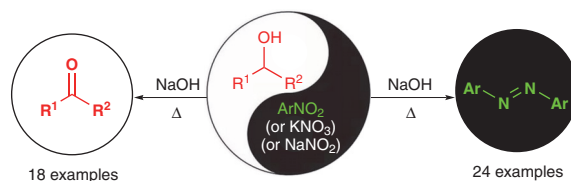
Synthesis 2024, 56, 851–859
DOI: 10.1055/a-2226-4152

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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

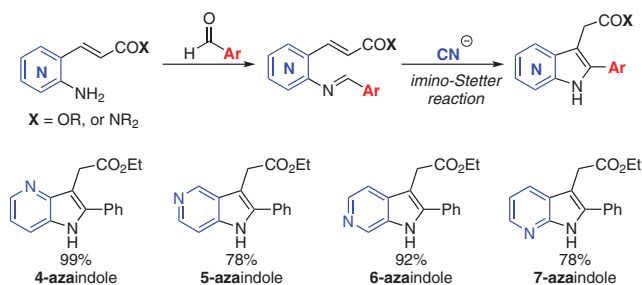
Paper

860

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

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Synthesis

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

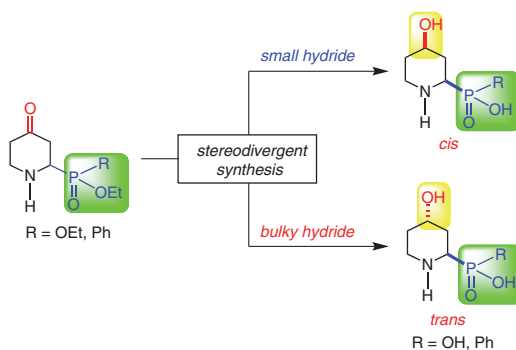
Paper

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

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R. O. Argüello-Velasco
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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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