Synthesis

Reviews and Full Papers in Chemical Synthesis

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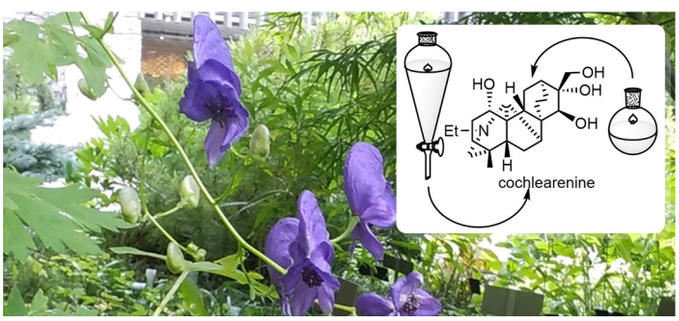
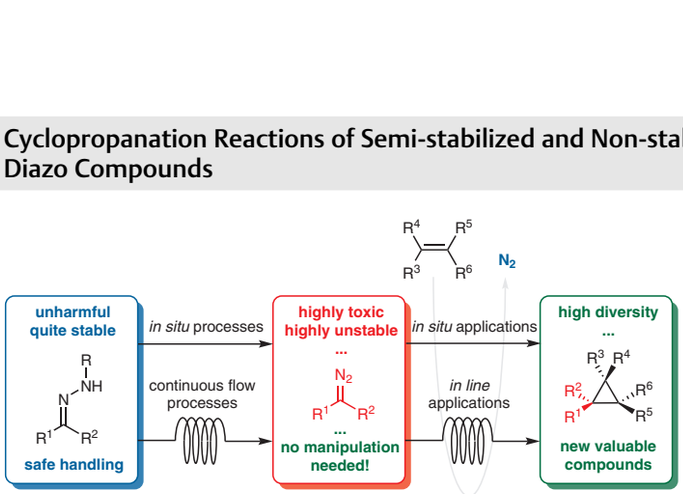
Vol. 51, No. 21
November I





Synthesis

Synthesis **2019**, *51*, 3964–3972
DOI: 10.1055/s-0039-1690521

A One-Pot Intramolecular Tandem Michael–Aldol Annulation Reaction for the Synthesis of Chiral Pentacyclic Terpenes

Paper

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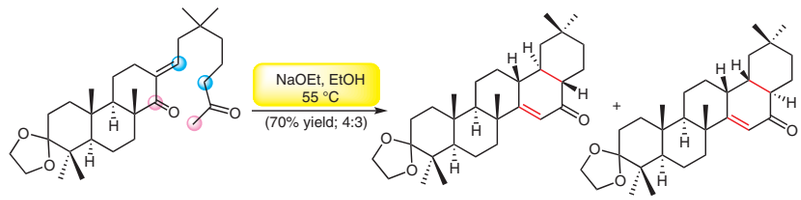

Synthesis

Synthesis **2019**, *51*, 3973–3980
DOI: 10.1055/s-0039-1690182

One-Step Synthesis of 1*H*-Imidazo[1,5-*a*]imidazole Scaffolds and Access to their Polyheterocycles

Paper

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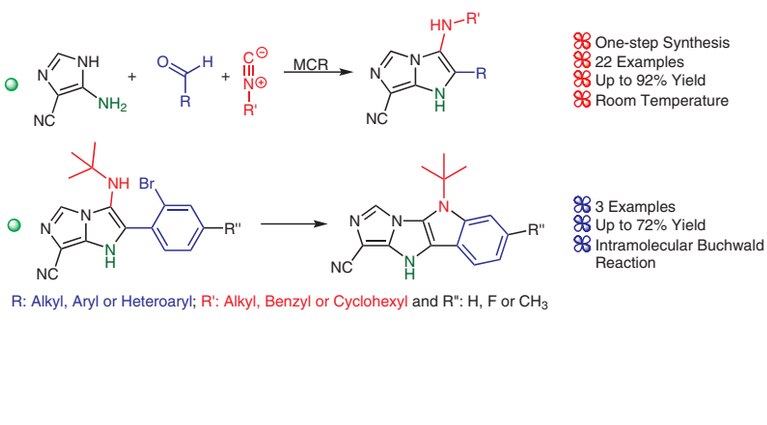

Synthesis

Synthesis **2019**, *51*, 3981–3988
DOI: 10.1055/s-0039-1690620

A Metathetic Approach to [5/5/6] Aza-Tricyclic Core of Dendrobine, Kopsanone, and Lycopalhine A Type of Alkaloids

Paper

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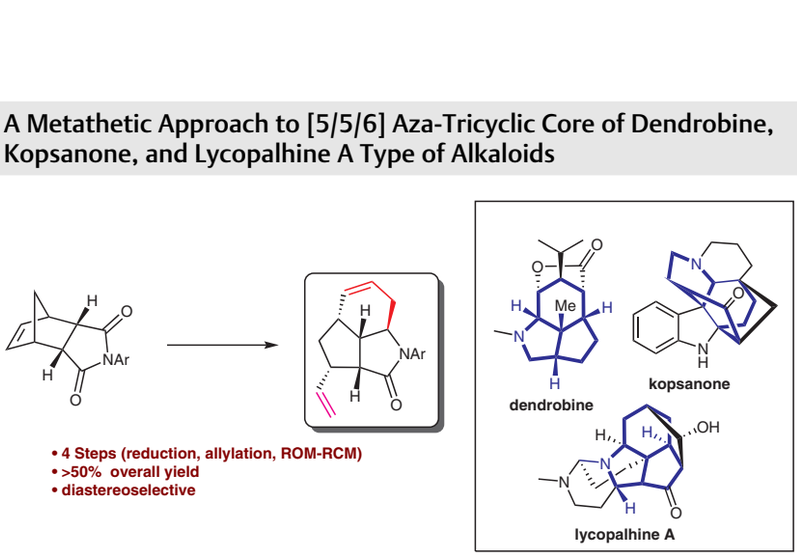

Synthesis

Synthesis **2019**, *51*, 3989–3997
DOI: 10.1055/s-0039-1690179

Synthesis of Aza-polyquinanes via Fischer Indolization and Ring-Rearrangement Metathesis as Key Steps

Paper

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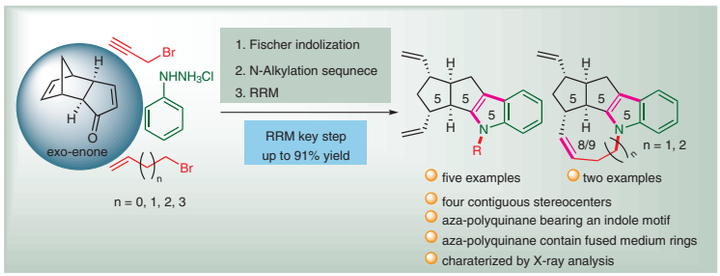

Synthesis

Synthesis **2019**, *51*, 3998–4005
DOI: 10.1055/s-0039-1690159

[3+2]-Cycloaddition of α-Diazocarbonyl Compounds with Arenediazonium Salts Catalyzed by Silver Nitrate Delivers 2,5-Disubstituted Tetrazoles

Paper

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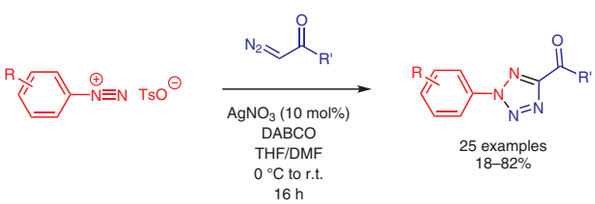

R = H, EWG or EDG, R' = alkyl, (hetero)aryl or 2° amino

Synthesis

Synthesis **2019**, *51*, 4006–4013
DOI: 10.1055/s-0039-1690153

Direct Access to Highly Functionalised Benzimidazoles and Benzoxazoles from a Common Precursor

Paper

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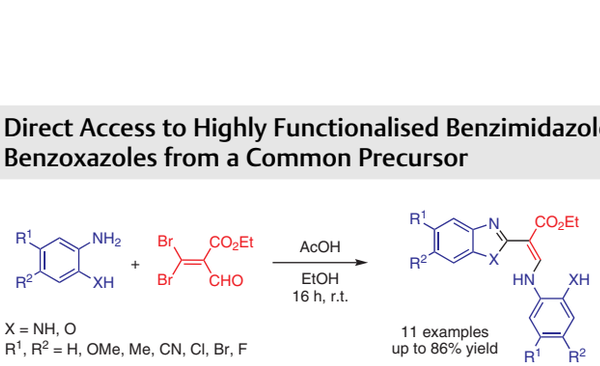

Synthesis

Synthesis **2019**, *51*, 4014–4022
DOI: 10.1055/s-0037-1611913

Cobalt Used as a Novel and Reusable Catalyst: A New and One-Pot Synthesis of Isatin-Derived *N*,*S*-Acetals Using Substituted Isatins and Thiols

Paper

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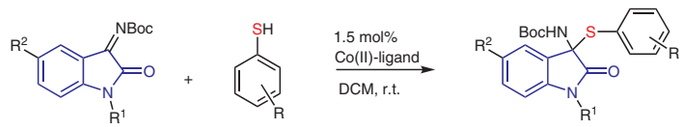

R^1 = H, Pr, *i*-Pr, Me, 4-$BrC_6H_4CH_2$, Ph
R^2 = H, Br, Cl
R = H, Me, OMe, F, Cl, NH_2

Heterogeneous catalyst
Recyclability
Novel catalyst
Low catalyst loading
Gram-scale synthesis
Green chemical approach
Yields: 18–99%
21 examples

Synthesis

Synthesis **2019**, *51*, 4023–4033
DOI: 10.1055/s-0039-1690024

An Expedient, Direct, Three-Component Approach for the Synthesis of 4-Thioarylpyrroles

Paper

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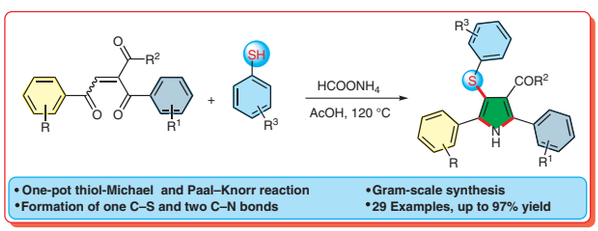

Synthesis

Synthesis **2019**, *51*, 4034–4042
DOI: 10.1055/s-0037-1611901

Combining Amines and 3-(2-Pyridyl)-[1,2,3]Triazolo[1,5-*a*]pyridine: An Easy Access to New Functional Polynitrogenated Ligands

Paper

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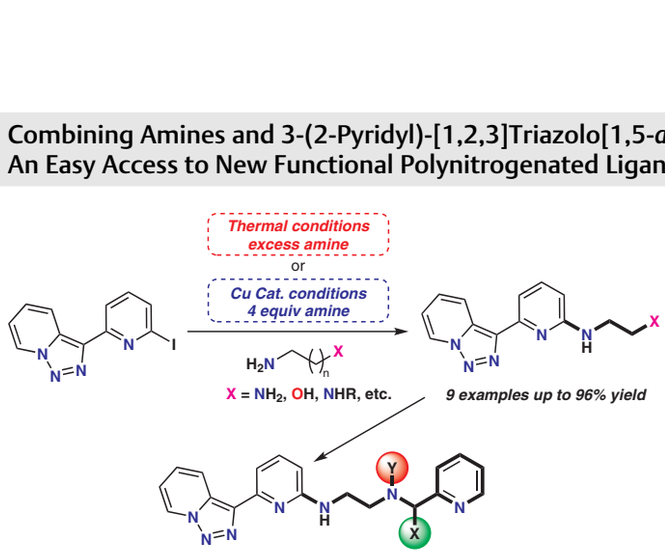

Synthesis

Synthesis **2019**, *51*, 4043–4057
DOI: 10.1055/s-0039-1690186

Direct Synthesis of Nitrones via Transition-Metal-Free Ring-Opening of *N*-Tosylaziridines with the Nitrogen Atom of Various (*E*)-Aldoximes and (*E*)-Ketoximes

Paper

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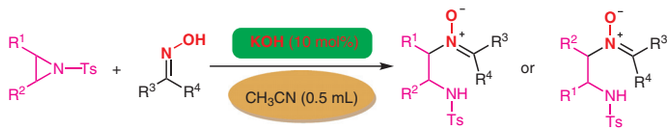

R^3 = Ph, R^4 = H, alkyl
R^3 = alkyl, R^4 = alkyl
R^3 = Heteroaryl, R^4 = Me

- **59** examples
- up to **99%** yields
- up to **100%** regioselectivity

Synthesis

Synthesis **2019**, *51*, 4058–4065
DOI: 10.1055/s-0039-1690155

Copper-Catalyzed 6-*endo-dig* O-Cyclization of 2-(But-3-en-1-yn-1-yl)benzamide

Paper

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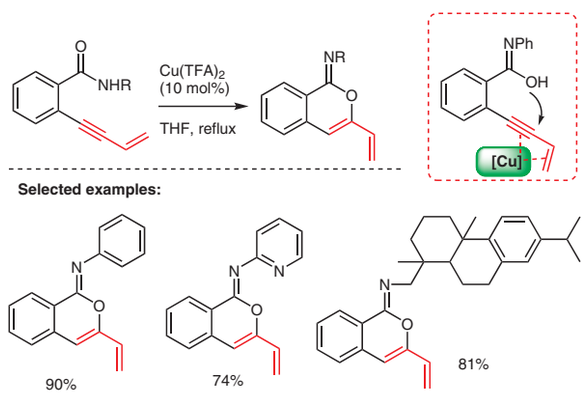

Synthesis

Synthesis **2019**, *51*, 4066–4077
DOI: 10.1055/s-0039-1690019

Bicyclic 1-Azafagomine Derivatives: Synthesis and Glycosidase Inhibitory Testing

Paper

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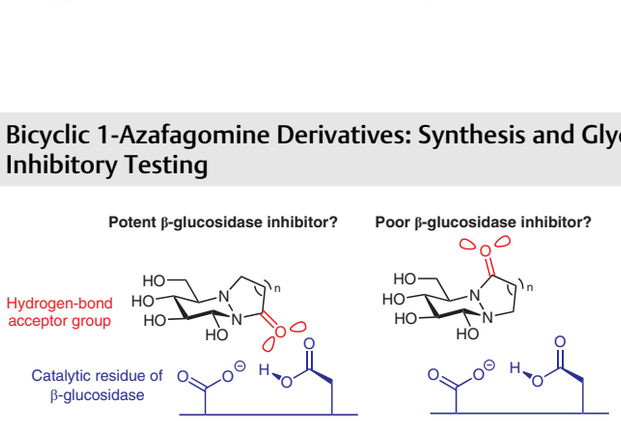

Synthesis

Synthesis **2019**, *51*, 4078–4084
DOI: 10.1055/s-0039-1690178

A Straightforward Conversion of Activated Amides and Haloalkanes into Esters under Transition-Metal-Free Cs_2CO_3/DMAP Conditions

Paper

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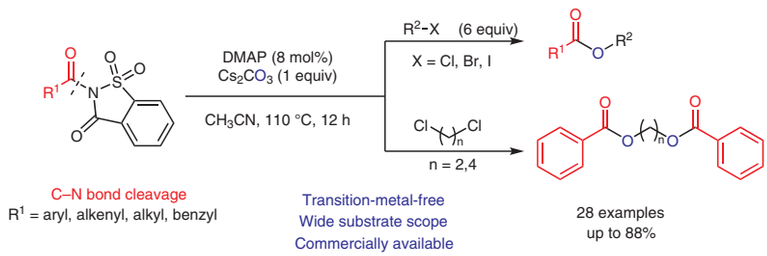

Synthesis

Synthesis **2019**, *51*, 4085–4105
DOI: 10.1055/s-0037-1611904

N-Alkynyl Pyrrole Based Total Synthesis of Shensongine A

Paper

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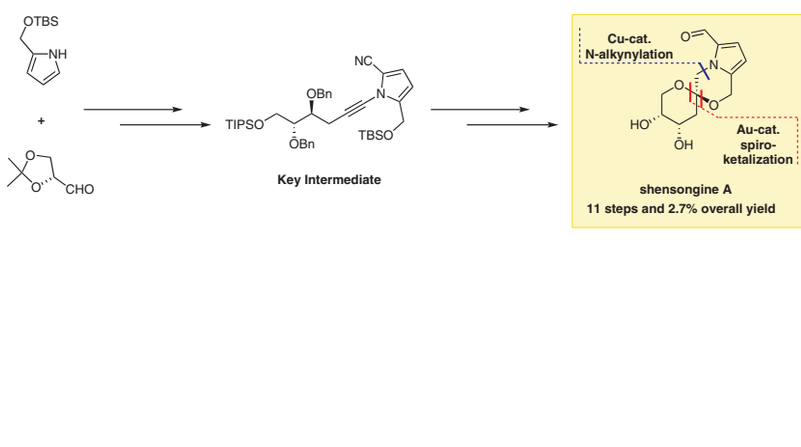

Synthesis

Synthesis **2019**, *51*, 4106–4112
DOI: 10.1055/s-0039-1690150

Evaluation of Amino Nitriles and an Amino Imidate as Organocatalysts in Aldol Reactions

Paper

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