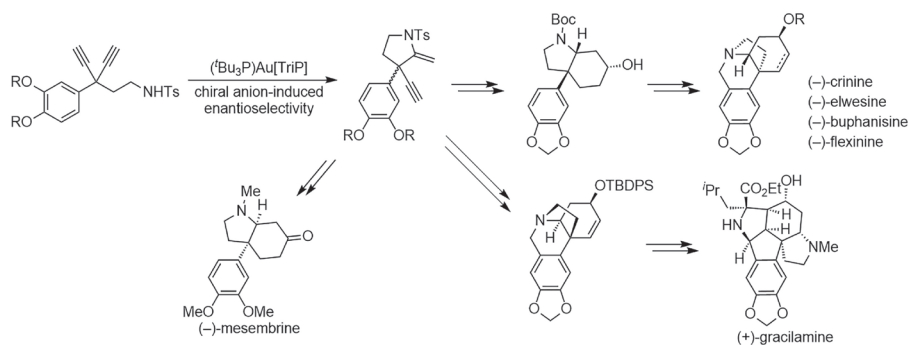


# Synthesis

Reviews and Full Papers in Chemical Synthesis

October 15, 2024 • Vol. 56, 3083–3232



A Comprehensive Approach to C3a-Aryl-Substituted Hydroindole Alkaloids by Utilizing Enantioselective Gold Catalysis

J. K. Yu, C. Czekelius

20

## Synthesis

*Synthesis* 2024, 56, 3083–3107  
DOI: 10.1055/a-2335-8516

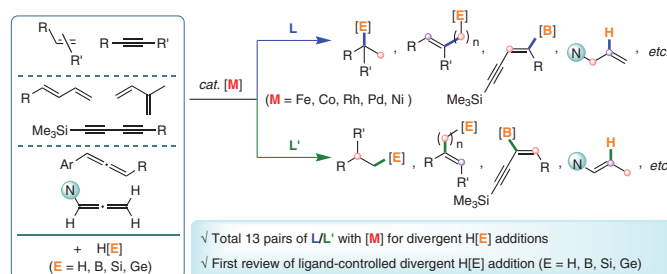
S. Park\*

Guangdong Technion Israel Institute of Technology, P. R. of China

## Recent Advances in Ligand-Controlled Regio- or Stereodivergent Transition-Metal-Catalyzed Hydroelementation (H[E]) (E = H, B, Si, Ge) of C–C Unsaturated Systems

## Review

3083



## Synthesis

*Synthesis* 2024, 56, 3108–3118  
DOI: 10.1055/a-2317-6730

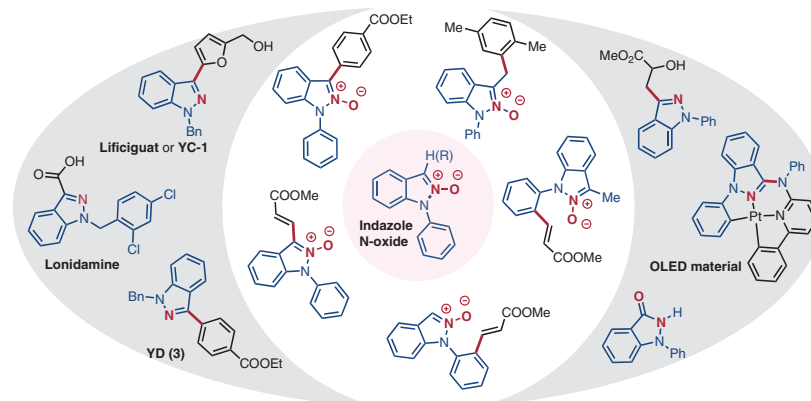
S. Arepally  
J. K. Park\*

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## Synthesis and Utilization of 1*H*-Indazole *N*-Oxides in the Production of C3-Functionalized 1*H*-Indazoles

## Short Review

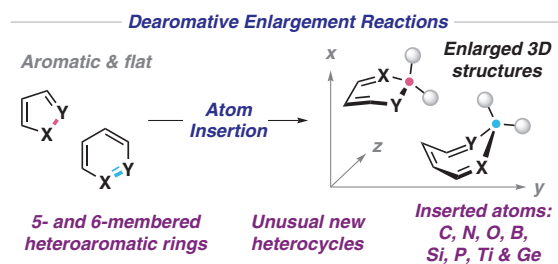
3108



Synthesis 2024, 56, 3119–3130  
DOI: 10.1055/a-2335-8799

X. Moreau  
C. Ghiazza\*

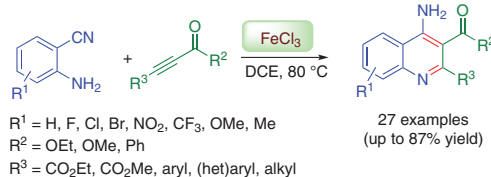
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Synthesis 2024, 56, 3131–3141  
DOI: 10.1055/a-2368-8500

B. Porashar  
A. K. Saikia\*

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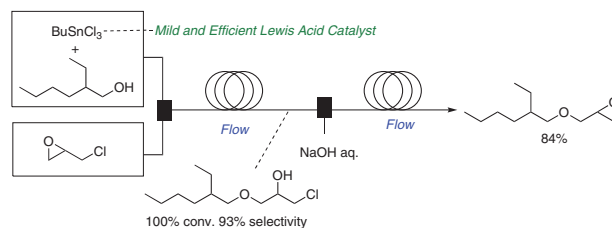


- C–N and C–C bond formation
- gram-scale synthesis
- inexpensive Fe(III) salt promoted
- easily available starting materials

Synthesis 2024, 56, 3142–3146  
DOI: 10.1055/a-2359-8893

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## Synthesis

Synthesis 2024, 56, 3147–3159  
DOI: 10.1055/s-0043-1775389

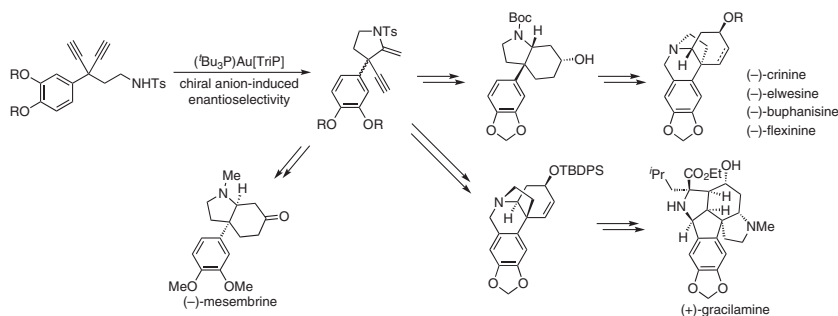
J. K. Yu  
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### A Comprehensive Approach to C3a-Aryl-Substituted Hydroindole Alkaloids by Utilizing Enantioselective Gold Catalysis

Paper

3147



## Synthesis

Synthesis 2024, 56, 3160–3166  
DOI: 10.1055/a-2367-2434

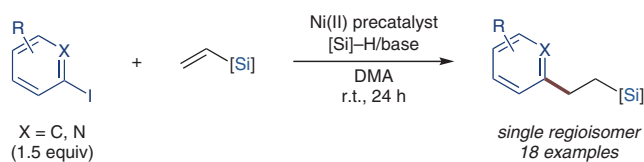
D. Brösamlen  
M. Oestreich\*

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Germany

### Ni–H-Catalyzed Chemo- and Regioselective Hydroarylation of Vinylsilanes

Paper

3160



## Synthesis

Synthesis 2024, 56, 3167–3172  
DOI: 10.1055/a-2367-1877

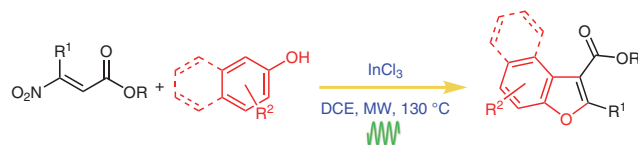
B. Bassetti  
M. Principi  
R. Ballini  
M. Petrini  
A. Palmieri\*

University of Camerino, Italy

### $\beta$ -Nitroacrylates and Phenols as Key Precursors of Arenofuran-3-carboxylates

Paper

3167



## Synthesis

Synthesis 2024, 56, 3173–3180  
DOI: 10.1055/s-0043-1775390

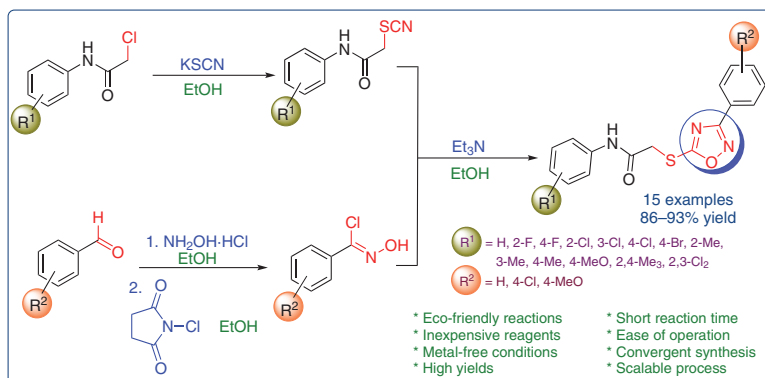
V. Y. Radhakrishna  
G. L. Khatik  
V. A. Nair\*

Amrita Vishwa Vidyapeetham,  
Amritapuri Campus, India

### 1,3-Dipolar Cycloaddition Reaction of Nitrile Oxide to Thiocyanates: An Efficient and Eco-Friendly Synthesis of *N*-Aryl-2-((3-aryl-1,2,4-oxadiazol-5-yl)thio)acetamides

Paper

3173



## Synthesis

Synthesis 2024, 56, 3181–3190  
DOI: 10.1055/a-2361-0011

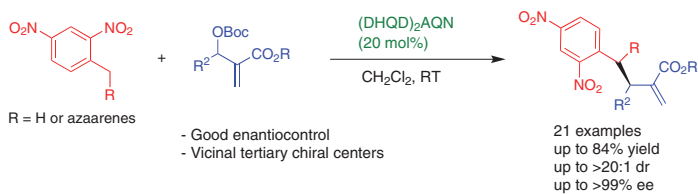
Y.-D. Wu  
B.-W. Huang  
Y.-C. Chen  
J.-L. Han\*

National Chung Hsing University,  
Taiwan R.O.C.

### Asymmetric Organocatalytic Benzylation of Morita–Baylis–Hillman Carbonates with 2,4-Dinitrotoluene Derivatives

Paper

3181



## Synthesis

Synthesis 2024, 56, 3191–3198  
DOI: 10.1055/a-2359-8967

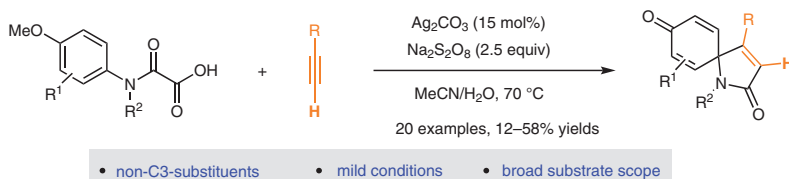
C.-A. Jin  
R.-X. Liang\*  
Y.-X. Jia

College of Chemical Engineering,  
P. R. of China

### Silver-Catalyzed Dearomative [3+2] Spiroannulation of Aryl Oxamic Acids with Alkynes

Paper

3191



## Synthesis

Synthesis 2024, 56, 3199–3205  
DOI: 10.1055/s-0043-1775386

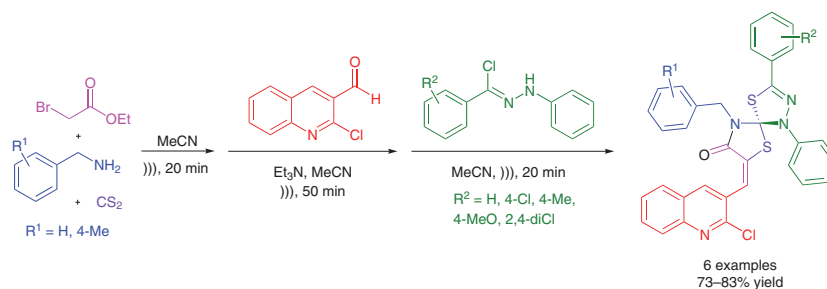
A. Alizadeh\*  
E. A. Chelebari  
R. Rezaiehraad

Department of Chemistry, Tarbiat  
at Modares University, Iran

### Regio- and Chemoselective Synthesis of 4,6-Dithia-1,2,9-triazaspiro-[4.4]non-2-en-8-ones through an Ultrasound-Promoted One-Pot Sequential Pseudo-Five-Component Reaction

Paper

3199



## Synthesis

Synthesis 2024, 56, 3206–3214  
DOI: 10.1055/a-2359-8813

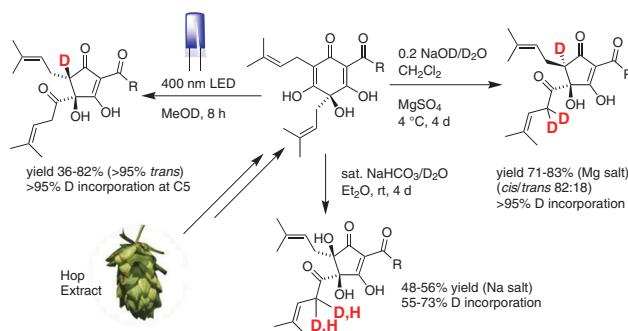
B. C. Hamper\*  
H. J. Campbell  
R. Luo  
M. Murphy  
P. Gleason  
T. Smith  
R. Jagan

University of Missouri-St. Louis,  
USA

### Selective Synthesis of Deuterated cis- and trans-Isohumulones and trans-Isohumulinones

Paper

3206



## Synthesis

Synthesis 2024, 56, 3215–3219  
DOI: 10.1055/a-2361-0069

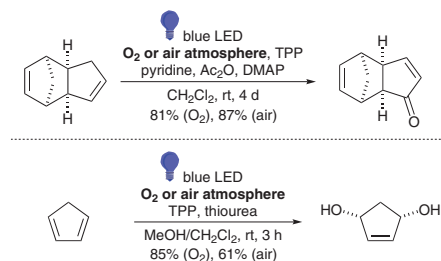
M. Hasumi  
T. Tsutsumi  
D. Shikama  
I. Hayakawa\*

Nihon University, Japan

### Efficient Oxidation with Singlet Oxygen from 5,10,15,20-Tetraphenylporphyrin under Blue LED Irradiation and Air Atmosphere: Simplified Preparation of Key Building Blocks for Natural Product Synthesis

Paper

3215



S. Zhang

L. Sun

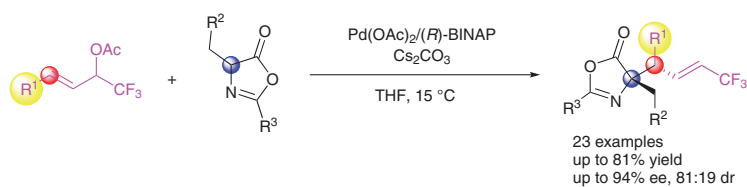
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J. Zhao

J. Qu

Y. Zhou\*

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P. R. of China



- Good yields, exclusive regioselectivity and good stereoselectivity
- Mild reaction conditions
- Readily scalable to gram scale
- Diverse transformations