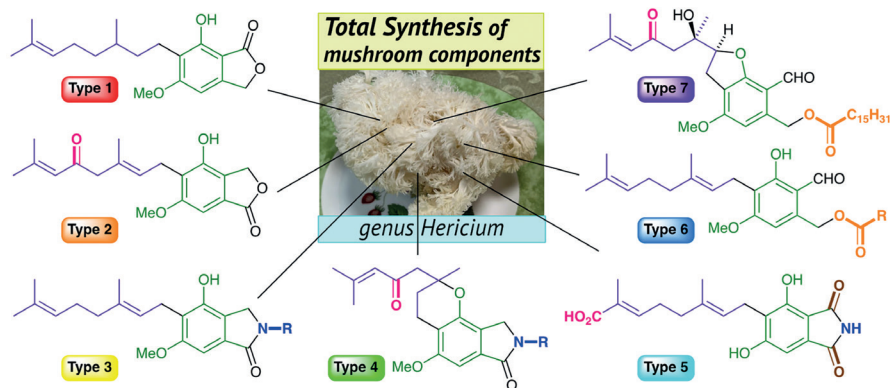


Synthesis

Reviews and Full Papers in Chemical Synthesis

February 2, 2023 • Vol. 55, 369–518



Total Synthesis of Geranyl-Resorcinols Isolated from Mushrooms of Genus *Hericium*

Shoji Kobayashi

3

Synthesis

Synthesis 2023, 55, 369–399
DOI: 10.1055/a-1951-2726

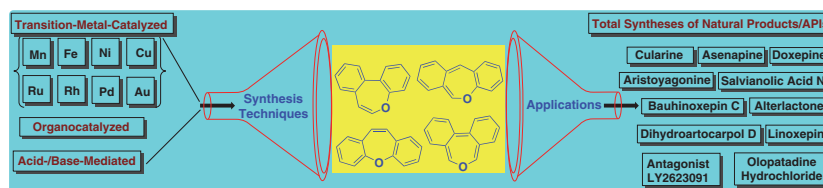
S. Yadav
J. Ramarao
S. Suresh*

CSIR-Indian Institute of Chemical
Technology (CSIR-IICT), India
Academy of Scientific and Inno-
vative Research (AcSIR), India

Recent Advances on the Development of Synthetic Strategies to Access Dibenzoxepine Derivatives

Review

369



Synthesis

Synthesis 2023, 55, 400–416
DOI: 10.1055/a-1944-9494

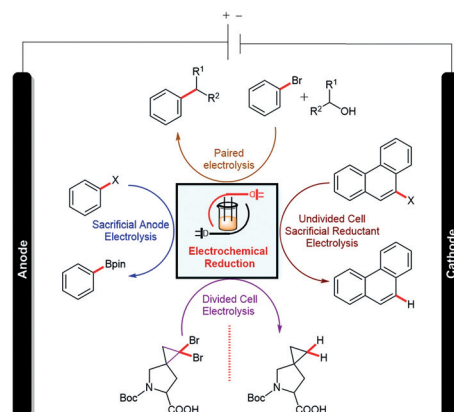
K. Mahanty
A. Halder
D. Maiti
S. De Sarkar*

Indian Institute of Science Edu-
cation and Research Kolkata,
India

Recent Developments in the Electroreductive Functionalization of Carbon–Halogen Bonds

Short Review

400



Synthesis

Synthesis 2023, 55, 417–432
DOI: 10.1055/a-1944-9623

S. Kobayashi*

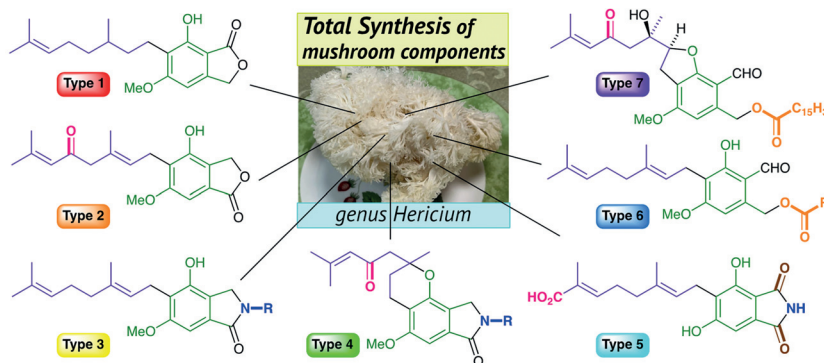
Osaka Institute of Technology,
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Total Synthesis of Geranyl-Resorcinols Isolated from Mushrooms of Genus *Hericium*

Short Review

OPEN
ACCESS

417



Synthesis

Synthesis 2023, 55, 433–442
DOI: 10.1055/a-1966-3271

Z. Zhang

T. Xue

Z. Han

R. Zeng*

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

A Neutral FeCl_3 Photocatalysis for C–C Bond Animation and Alkylation of Cyclic Alcohols

Feature

433



- ✓ Mild base-free conditions
- ✓ Up to excellent efficiency
- ✓ Valid for alkylation
- ✓ Broad substrate scope

Synthesis

Synthesis 2023, 55, 443–450
DOI: 10.1055/a-1899-5409

L.-Y. Xie*

Q.-X. Xie

Y.-D. Chen

J.-Y. Zhou

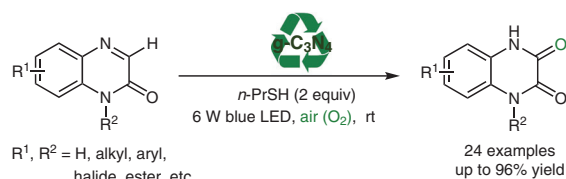
S. Peng*

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Engineering, P. R. of China

Visible-Light-Induced Recyclable $\text{g-C}_3\text{N}_4$ Catalyzed C–H Hydroxylation of Quinoxalin-2(1H)-ones

Paper

443



$\text{R}^1, \text{R}^2 = \text{H}, \text{alkyl}, \text{aryl},$
 $\text{halide}, \text{ester}, \text{etc.}$

24 examples
up to 96% yield

Synthesis

Synthesis 2023, 55, 451–456
DOI: 10.1055/a-1942-7110

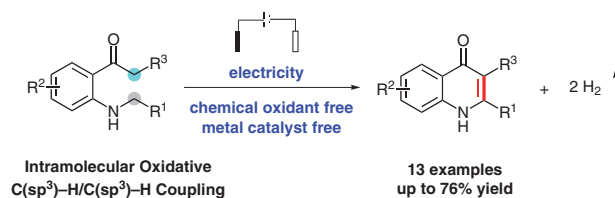
J. Wu*
K. Jin
R. Wang
X. Wang
X. Yu
L. Zhong
J. Liu

Anhui Science and Technology
University, P. R. China

Electrochemical Intramolecular Oxidative C(sp³)-H/C(sp³)-H Coupling for the Synthesis of 4-Quinolones

Paper

451



Synthesis

Synthesis 2023, 55, 457–464
DOI: 10.1055/a-1942-7191

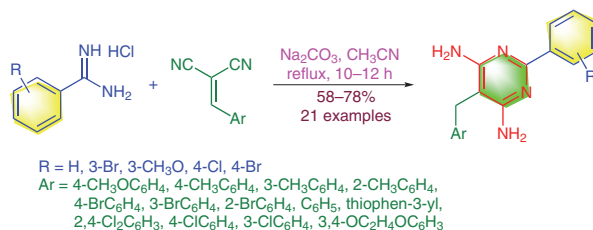
C. Wu
X. Bian
L. Wang
Y. Zhang
C. Wang*

Yangzhou University,
P. R. of China

Na₂CO₃-Mediated [3+3] Annulation Reaction of Substituted Benzamidines with 2-Benzylidenemalononitriles: Access to Substituted Pyrimidine-4,6-diamines

Paper

457



Synthesis

Synthesis 2023, 55, 465–472
DOI: 10.1055/a-1932-5811

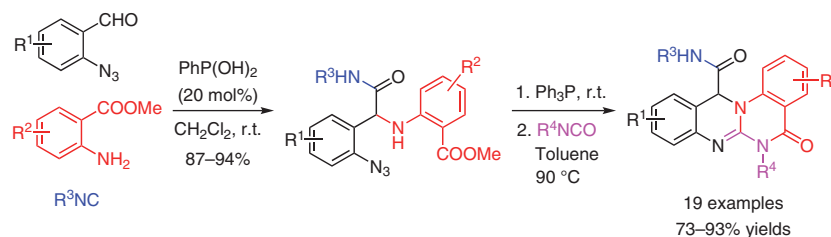
M.-L. Yang
H.-R. Chen
L. Zhao
M.-W. Ding*

Central China Normal University,
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New Efficient Synthesis of 6,12-Dihydro-5H-quinazolino[3,2-a]-quinazolin-5-ones via Ugi/Staudinger/Aza-Wittig/Addition/Nucleophilic Acyl Substitution Sequence

Paper

465



Synthesis

Synthesis **2023**, *55*, 473–480
DOI: 10.1055/a-1931-6711

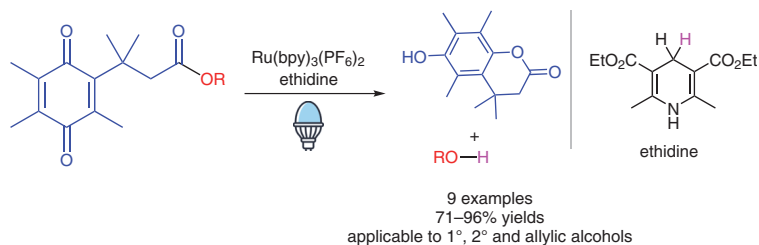
Z. Lu
Y. Xu
Z. Wen
C. Xie
C. Xie
M. Yu
L. Gao
Y.-Q. Yang*
X. Xu*

Jiangsu University, P. R. of China

A Visible-Light-Driven Approach to Free Alcohol from Esters of Quinone Propionic Acid

Paper

473



Synthesis

Synthesis **2023**, *55*, 481–488
DOI: 10.1055/a-1954-4920

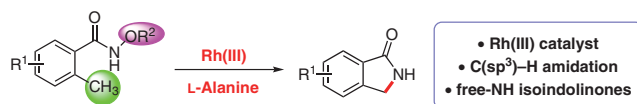
D. Yang
H. Xu
D. Huang
H. Zhao*

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Rhodium(III)-Catalyzed Intramolecular Benzylic C(sp³)-H Amidation for the Synthesis of Isoindolinones

Paper

481



Synthesis

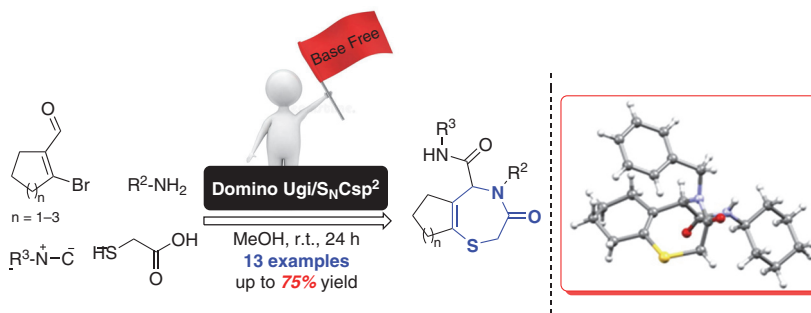
Synthesis **2023**, *55*, 489–498
DOI: 10.1055/a-1944-2423

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One-Pot, Base- and Metal-Free Practical Synthesis of Novel Cycloalkene-Fused [1,4]Thiazepines through the Sequential Ugi/S_NCsp² Reactions

Paper

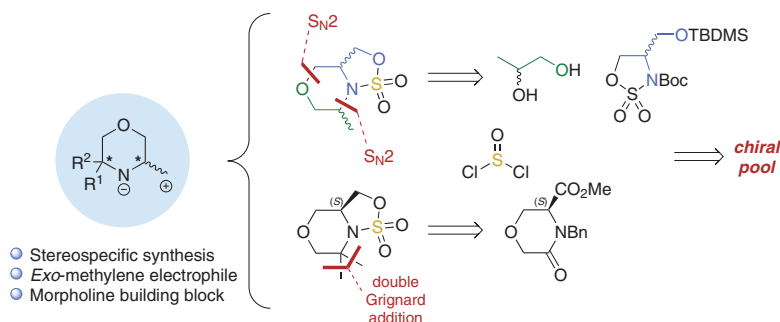
489



Synthesis 2023, 55, 499–509
DOI: 10.1055/a-1915-7794

U. Stojilkovic
C. Meyer
P. Boulay
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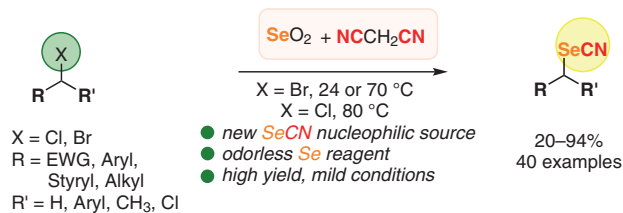
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Synthesis 2023, 55, 510–518
DOI: 10.1055/a-1938-2443

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X = Cl, Br
R = EWG, Aryl,
Styryl, Alkyl
R' = H, Aryl, CH₃, Cl