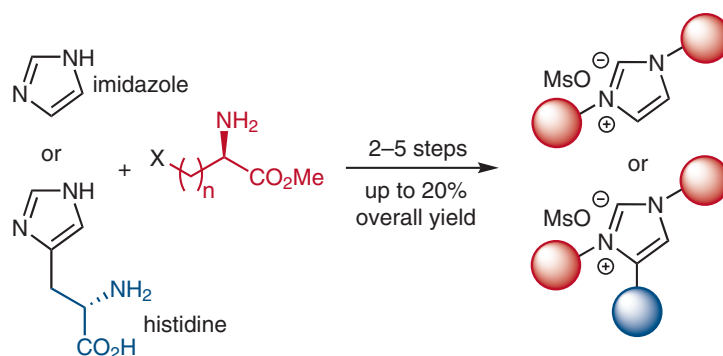


Synthesis

Reviews and Full Papers in Chemical Synthesis

July 1, 2021 • Vol. 53, 2167–2318



Synthesis of Imidazole and Histidine-Derived Cross-Linkers as Analogues of GOLD and Desmosine

N. Schädel, E. Icik, M. Martini, L. Altevogt, I. Ramming, A. Greulich, A. Baro, U. Bilitewski, S. Laschat

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Synthesis

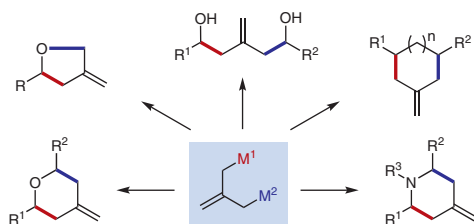
Synthesis 2021, 53, 2167–2182
DOI: 10.1055/a-1389-1438

J. Liu
M. Chen*
Auburn University, USA

1,3-Bifunctional Nucleophilic Allylation Reagents: Preparative Methods and Synthetic Applications

Short Review

2167



Synthesis

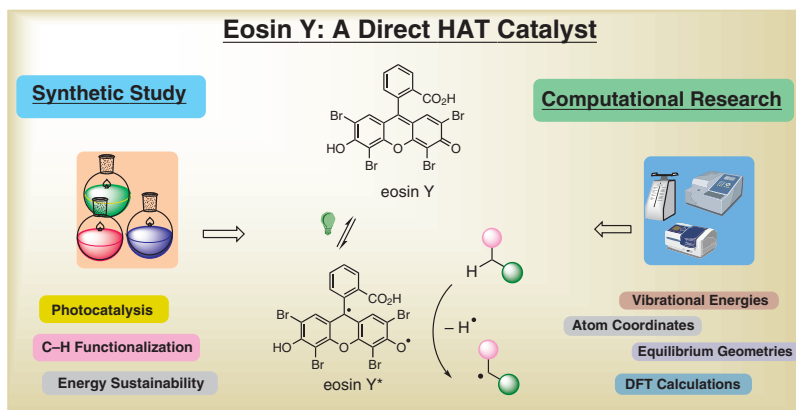
Synthesis 2021, 53, 2183–2191
DOI: 10.1055/a-1385-9398

J. Inoa
G. Dominici
R. Eldabagh
J. J. Foley IV*
Y. Xing*
William Paterson University, USA

Synthetic Applications and Computational Perspectives on Eosin Y Induced Direct HAT Process

Short Review

2183



Synthesis

Synthesis **2021**, 53, 2192–2200
DOI: 10.1055/s-0040-1706026

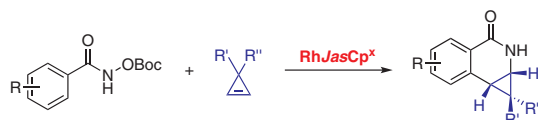
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H. Li
C. Merten
A. P. Antonchick*
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Nottingham Trent University, UK

Rhodium(III)-Catalyzed Enantioselective Benzamidation of Cyclopropenes

Feature

2192



14 examples
up to 90% ee
up to >20:1 dr

Synthesis

Synthesis **2021**, 53, 2201–2211
DOI: 10.1055/a-1385-9052

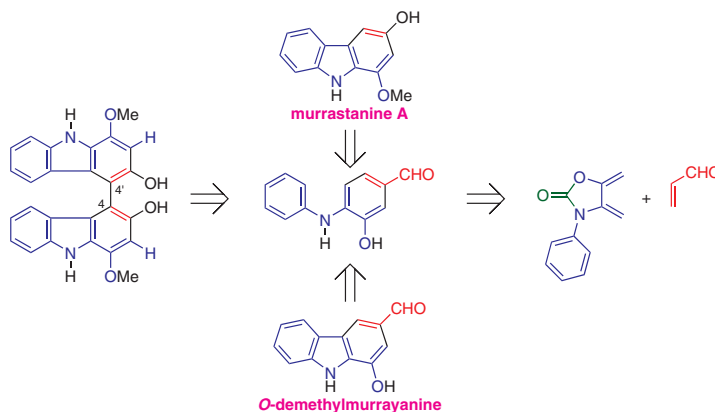
J. L. Avila-Melo
A. Benavides*
A. Fuentes-Gutiérrez
J. Tamariz
H. A. Jiménez-Vázquez*

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Total Synthesis of the Natural Carbazoles *O*-Demethylmurrayanine and Murrastanine A, and of a C4,C4' Symmetric Murrastanine A Dimer from *N*-Phenyl-4,5-dimethylene-1,3-oxazolidin-2-one

Paper

2201



Synthesis

Synthesis **2021**, 53, 2212–2218
DOI: 10.1055/a-1331-7346

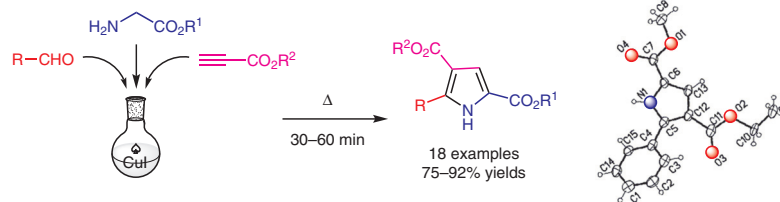
M.-H. Hsu*
M. Kapoor
T. K. Pradhan
M.-H. Tse
H.-Y. Chen
M.-J. Yan
Y.-T. Cheng
Y.-C. Lin
C.-Y. Hsieh
K.-Y. Liu
C.-C. Han

National Changhua University of
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Mild and Efficient Copper-Catalyzed Synthesis of Trisubstituted Pyrroles

Paper

2212



Synthesis

Synthesis 2021, 53, 2219–2228
DOI: 10.1055/a-1372-1619

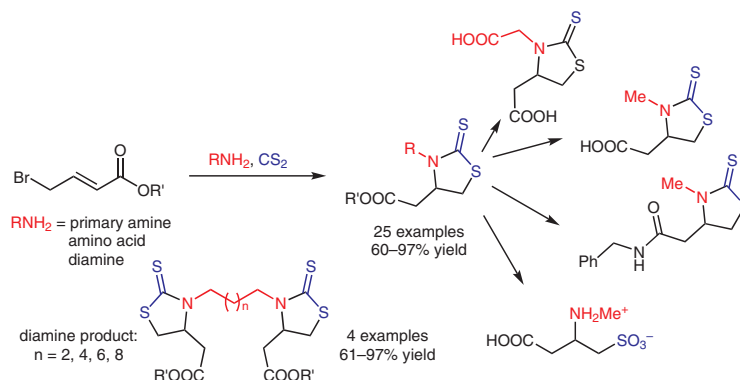
M. Khalili Fomeshi
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Tandem Alkylation/Michael Addition Reaction of Dithiocarbamic Acids with Alkyl γ -Bromocrotonates: Access to Functionalized 1,3-Thiazolidine-2-thiones

Paper

2219



Synthesis

Synthesis 2021, 53, 2229–2239
DOI: 10.1055/s-0037-1610765

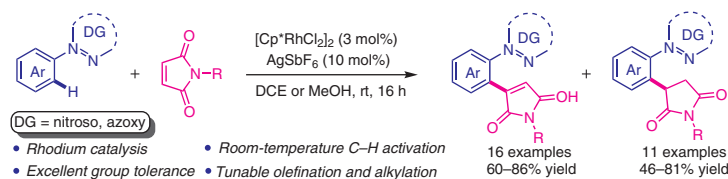
W. Zhang
X. Liu
Z. Tian
H. Li*

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Rh(III)-Catalyzed Olefination and Alkylation of Arenes with Maleimides: A Tunable Strategy for $\text{C}(\text{sp}^2)\text{-H}$ Functionalization

Paper

2229



Synthesis

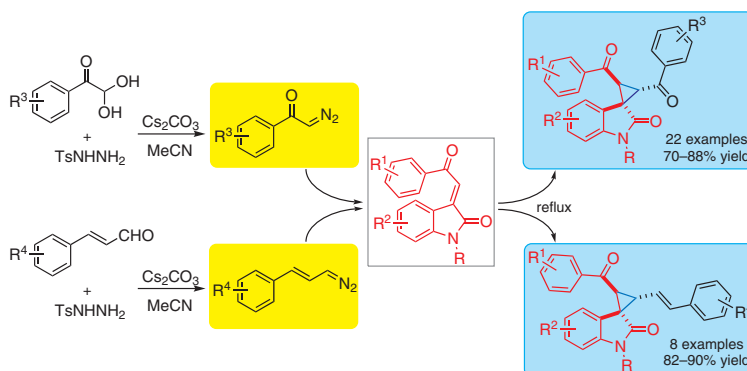
Synthesis 2021, 53, 2240–2252
DOI: 10.1055/a-1384-1967

S. Pramanik
S. Ray
S. Maity
P. Ghosh
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Diastereoselective *trans* Cyclopropanation of 3-Alkylidene Oxindoles with In Situ Generated α -Diazo Carbonyls or α,β -Unsaturated Diazo Compounds

Paper

2240



Synthesis

Synthesis **2021**, 53, 2253–2259
DOI: 10.1055/a-1348-4311

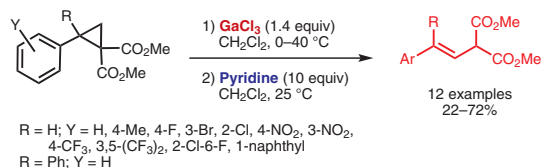
D. D. Borisov
G. R. Chermashentsev
R. A. Novikov*
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Synthesis of Substituted β -Styrylmalonates by Sequential Isomerization of 2-Arylcyclopropane-1,1-dicarboxylates and (2-Arylethylidene)malonates

Paper

2253



Synthesis

Synthesis **2021**, 53, 2260–2268
DOI: 10.1055/s-0040-1706144

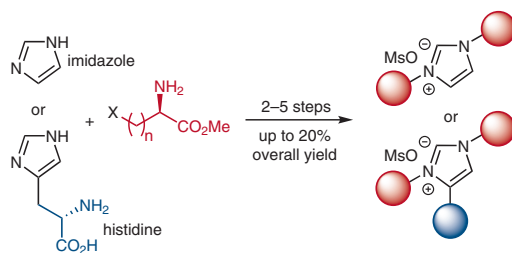
N. Schädel
E. Icik
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I. Ramming
A. Greulich
A. Baro
U. Bilitewski*
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Synthesis of Imidazole and Histidine-Derived Cross-Linkers as Analogues of GOLD and Desmosine

Paper

2260



Synthesis

Synthesis **2021**, 53, 2269–2276
DOI: 10.1055/a-1385-6119

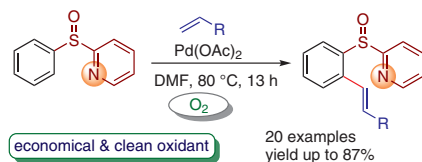
M. Yadav
R. S. Jat
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2-Pyridyl Sulfoxide Directed Pd(II)-Catalyzed C–H Olefination of Arenes with Molecular Oxygen as the Sole Oxidant

Paper

2269



Synthesis

Synthesis 2021, 53, 2277–2285
DOI: 10.1055/a-1331-7285

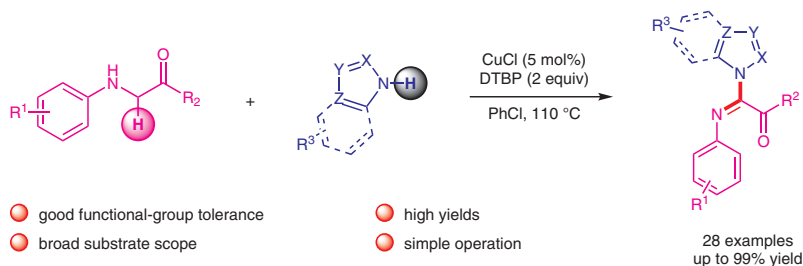
J.-J. Ji
Z.-Q. Zhu*
Z.-B. Xie
J. Tang
E. Yuan
Z.-G. Le*

East China University of Technol-
ogy, P. R. of China

Highly Efficient Copper-Catalyzed Dehydrogenative Cross-Coupling of Azoles with α -Amino Carbonyl Compounds

Paper

2277



Synthesis

Synthesis 2021, 53, 2286–2292
DOI: 10.1055/a-1375-3538

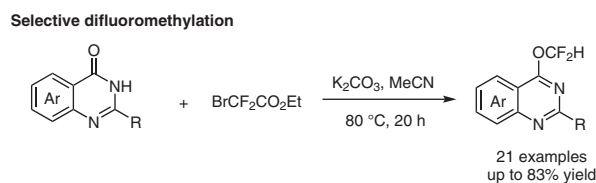
J. Peng
L. Hu
M.-W. Chen
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Synthesis of Difluoromethyl-Substituted Quinazolines through Selective Difluoromethylation

Paper

2286



Synthesis

Synthesis 2021, 53, 2293–2303
DOI: 10.1055/a-1395-4788

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J. Wu*
Y. Liu
Y. Liu
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Efficient Monofluoroalkylation of Thiophenols or Phenols with α -Bromo- α -Fluoroketones under Mild Conditions

Paper

2293

