Synthesis

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Reviews and Full Papers in Chemical Synthesis

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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



Synthesis

Reviews and Full Papers in Chemical Synthesis

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Short Review

2167

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



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VI

Syn thesis Rhodium(III)-Catalyzed Enantioselective Benzamidation of Cyclo-Feature propenes Synthesis 2021, 53, 2192-2200 2192 DOI: 10.1055/s-0040-1706026 S. Shaaban H. Li Rh.lasCn OBoc C. Merten A. P. Antonchick* H. Waldmann^{*}

Max Planck Institute of Molecular Physiology, Germany Technical University Dortmund, Germany Nottingham Trent University, UK



Syn <mark>thesis</mark>	Total Synthesis of the Natural Carbazoles O-Demethylmurrayanine and
Synthesis 2021 , 53, 2201–2211 DOI: 10.1055/a-1385-9052	Murrastanine A, and of a C4,C4' Symmetric Murrastanine A Dimer
	from N-Phenyl-4,5-dimethylene-1,3-oxazolidin-2-one

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

H. A. Jiménez-Vázquez* Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional, México





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Paper

2201





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

W. Zhang X. Liu Z. Tian H. Li* Huaibei Normal University, P. R. of China





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

- S. Pramanik
- S. Ray
- S. Maity
- P. Ghosh
- C. Mukhopadhyay* University of Calcutta, India

Diastereoselective trans Cyclopropanation of 3-Alkylidene Oxindoles with In Situ Generated α -Diazo Carbonyls or α , β -Unsaturated Diazo Compounds



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2240

VII



VIII

CO₂Me

CO₂Me

Syn<mark>thesis</mark>

D. D. Borisov G. R. Chermashentsev

R. A. Novikov*

Y. V. Tomilov*

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

N. D. Zelinsky Institute of Organ-

ic Chemistry, Russian Federation

Synthesis of Substituted β -Styrylmalonates by Sequential Isomerization of 2-Arylcyclopropane-1,1-dicarboxylates and (2-Arylethylidene)malonates



 $\begin{array}{l} \mathsf{R}=\mathsf{H}; \ \mathsf{Y}=\mathsf{H}, \ \mathsf{4}\text{-}\mathsf{Me}, \ \mathsf{4}\text{-}\mathsf{F}, \ \mathsf{3}\text{-}\mathsf{Br}, \ \mathsf{2}\text{-}\mathsf{CI}, \ \mathsf{4}\text{-}\mathsf{NO}_2, \ \mathsf{3}\text{-}\mathsf{NO}_2, \\ \mathsf{4}\text{-}\mathsf{CF}_3, \ \mathsf{3}\text{-}\mathsf{5}\text{-}(\mathsf{CF}_3)_2, \ \mathsf{2}\text{-}\mathsf{CI}\text{-}\mathsf{6}\text{-}\mathsf{F}, \ \mathsf{1}\text{-}\mathsf{naphthyl} \\ \mathsf{R}=\mathsf{Ph}; \ \mathsf{Y}=\mathsf{H} \end{array}$

Syn thesis	Synthesis of Imidazole and Histidine-Derived Cross-Linkers as	Paper
Synthesis 2021 , 53, 2260–2268 DOI: 10.1055/s-0040-1706144	Analogues of GOLD and Desmosine	2260
N. Schädel E. Icik M. Martini L. Altevogt I. Ramming A. Greulich A. Baro U. Bilitewski* S. Laschat* Universität Stuttgart, Germany Helmholtz Zentrum für Infektionsforschung, Germany	$ \begin{array}{c} & & & \\ & & & \\ $	

Syn <mark>thesis</mark>	2-Pyridyl Sulfoxide Directed Pd(II)-Catalyzed C-H Olefination of	Paper
Synthesis 2021 , 53, 2269–2276	Arenes with Molecular Oxygen as the Sole Oxidant	2269
DOI: 10.1055/a-1385-6119		
M. Yadav R. S. Jat B. Sarma	$ \begin{array}{c} $	
M. Bhanuchandra*		
Central University of Rajasthan, India	economical & clean oxidant 20 examples vield up to 87%	

2253



IX

Syn <mark>thesis</mark>	Synthesis of Difluoromethyl-Substituted Quinazolines through	Paper
Synthesis 2021 , 53, 2286–2292 DOI: 10.1055/a-1375-3538	Selective Difluoromethylation	2286
J. Peng L. Hu MW. Chen Z. Deng Y. Peng*	Selective diffuoromethylation $Art + BrCF_2CO_2Et + BrCF_2CO_2Et$	

Jiangxi Normal University, P. R. of China





Synthesis **2021**, 53, 2304–2318 DOI: 10.1055/a-1387-9479

V. Saravanan A. K. Mohanakrishnan* University of Madras, India

Synthesis of Annulated Carbazoles via FeCl₃/SnCl₄-Mediated Domino Reaction of Vinyl Ketone Tethered Bromomethylindoles with Arenes and Heteroarenes

Paper 2304

COCH₃ (Het)ArH Lewis acid (Het)Ar ----rt or reflux 35 examples 42–84% SO₂Ph ŚO₂Ph