Synthesis

Reviews and Full Papers in Chemical Synthesis

August 17, 2022 • Vol. 54, 3499-3666



H.-C. Chan, A. Gagnon

16



Synthesis

Reviews and Full Papers in Chemical Synthesis

2022 Vol. 54, No. 16 August II

Cover Design: © Thieme Cover Image: H.-C. Chan, A. Gagnon

This document was downloaded for personal use only. Unauthorized distribution is strictly prohibited.

Syn thesis

Synthesis **2022**, 54, 3499–3557 DOI: 10.1055/a-1783-0751

P. Klahn* R. Zscherp

C. C. Jimidar Technische Universität Braunschweig, Germany University of Gothenburg, Sweden Advances in the Synthesis of Enterobactin, Artificial Analogues, and Enterobactin-Derived Antimicrobial Drug Conjugates and Imaging Tools for Infection Diagnosis



Syn**thesis**

Synthesis **2022**, 54, 3558–3567 DOI: 10.1055/s-0041-1737411

Y. Lin

L. R. Malins* Australian National Univer

Australian National University, Australia

Synthesis of Peptide N-Acylpyrroles via Anodically Generated	
N,O-Acetals	

3558

Feature

Review

3499



T



VI

Syn thesis Synthesis 2022 , 54, 3588–3594 DOI: 10.1055/a-1820-2475	Copper-Catalyzed Direct C(sp ²)–H Sulfuration of Aryl Alkenes by Using Tetraalkylthiuram Disulfides for the Synthesis of Alkenyl Dithiocarba- mates		Paper 3588
J. Jiao Z. Zhang* East China University of Science & Technology, P. R. of China	$R = Phi_{3}^{H} + R + R + R + R + R + R + R + R + R + $	alkenyl dithiocarbamates	
	 Transition-metar-catalyzed C(sp²)-H sulfuration Thiuram as sulfuration agent 	27 examples up to 72% yield	

Syn thesis	Potassium tert-Butoxide Facilitated Amination of Carboxylic Acids with	Paper
Synthesis 2022 , 54, 3595–3604	N,N-Dimethylformamide	3595
Y. Huang J. Zhang* Wuhan University, P. R. of China	$R-COOH \xrightarrow{KO'Bu (10 mol%)} Piv_2O, DMF, 120 °C R = aryl, alkenyl, alkyl$	
	 transition-metal- and oxidant-free broad substrate scope with excellent functional group tolerance applicable in late-stage amidation of complex drug molecules 	



VII

Synthesis	Recyclable Palladium-Catalyzed Carbonylative Coupling of 2-lodoani- lines, Trimethyl Orthoformate, and Amines: A Practical Synthesis of	Paper
DOI: 10.1055/s-0040-1719924	Quinazolin-4(3H)-ones	3613
J. Li Z. Zhou G. Xie M. Cai [*] Jiangxi Normal University, P. R. of China	R + CH(OMe) ₃ + CO + R ¹ NH ₂ (10 bar) MCM-41-2P-Pd(OAc) ₂ (2 mol%) DiPEA, toluene, 110 °C Broad substrate scope High FG tolerance Good to excellent yields Recyclable palladium catalyst	

Syn <mark>thesis</mark>	A Strategy for the Synthesis of Bicyclic Fused Cyclopentenones from	Paper
Synthesis 2022 , 54, 3623–3630	MBH-Carbonates of Propiolaldehydes	3623
DOI: 10.1055/a-1828-1560		
C. R. Reddy*	OBoc Ts //	
S. Z Mohammed	toluene, 0 °C to rt, 6 h	
P. Kumaraswamy	H i) Co ₂ (CO) ₈ (1.1 equiv)	
R. C. Kajare	$\bigwedge_{n}^{\text{NHIS}}$ DOE, 60 C, 1211 \bigwedge_{n}^{R}	
A. D. Patil	n = 1,2,3 O	
V. S. Rao Ganga	H = aryl, heteroaryl, alkyl 12 examples	
A. Ramaraju		
B. Sridhar		
CSIR-Indian Institute of Chemical Technology (CSIR-IICT), India		



VIII







IX

Syn thesis

Synthesis **2022**, 54, 3658–3666 DOI: 10.1055/s-0041-1738070

Y. V. Ostapiuk* M. Y. Ostapiuk O. V. Barabash M. Kravets C. Herzberger J. C. Namyslo M. D. Obushak A. Schmidt*

Ivan Franko National University of Lviv, Ukraine Clausthal University of Technology, Germany One-Pot Syntheses of Substituted 2-Aminothiazoles and 2-Aminoselenazoles via Meerwein Arylation of Alkyl Vinyl Ketones

3658

