Syn lett

Accounts and Rapid Communications in Chemical Synthesis

April 22, 2022 • Vol. 33, 599-698



Chiral Ammonium Salt Catalyzed Asymmetric Alkylation of Unactivated Amides **C. Xu, X. Yang**





Accounts and Rapid Communications in Chemical Synthesis 2022 Vol. 33, No. 7 April II

Cover Design: © Thieme Cover Image: C. Xu et. al.

599

Syn<mark>lett</mark>

Synlett **2022**, 33, 599–608 DOI: 10.1055/a-1696-4553

J.-L. Wang C.-X. Zhuo* Xiamen University, P. R. of China



P٢

R₃Si-OH

mild reductant

(PR₃ or R₃SiH) 36 examples up to 90% yield



VI

Synlett

Synlett 2022, 33, 617-636 DOI: 10.1055/s-0040-1719852

K. K. Laali* R. G. Kalkhambkar* S. M. Sutar

University of North Florida, USA Karnatak University, India

Recent Advances in the Synthesis of Diverse Libraries of Small-Molecule Building Blocks in Ionic Liquids (ILs)

Account 617

637



Synlett

Synlett **2022**, 33, 637–654 DOI: 10.1055/a-1688-0826

G. J. Wørmer T. B. Poulsen* Aarhus University, Denmark

The [4.3.0] Piperidine Alkaloids: Architectures, Biology, Biosyntheses, Account and the Complete Details of the Asymmetric Syntheses of Streptazone A and Abikoviromycin Covered

[4.3.0] ring-forming strategies [4.3.0] piperidine alkaloids [4.3.0] biosyntheses



Behind the scene toward streptazone A and abikoviromycin

Synlett	Synthesis of β -anti-Substituted α -Amino Acids through Iridium-Cata-					Letter
Synlett 2022 , 33, 655–658 DOI: 10.1055/s-0040-1719909	lyzed Alkylat	ion/Chelatic	on-Controlled N	lucleophilic Additio	ו	655
P. Wang R. Zhao J. Wang	$R^{2}O \xrightarrow{V} N = \bigvee_{Ph}^{Ph}$	i) [Ir(cod)Cl] ₂ ligand Lewis acid base	R ² O NH ₂	HO NH ₂		
X. Wang*	R ¹ LG	ii) citric acid	11 examples	plant-growth regulator		
Lanzhou University, P. R. of China			dr 6:1 to >20:1 82–99% ee	3 steps, gram scale		



VII

Visible-Light-Promoted Indole C-3 Formylation Using Eosin Y as a Pho-**Synlett** Letter toredox Catalyst Synlett 2022, 33, 659-663 659 DOI: 10.1055/a-1777-2556 Y. Zhao сно H. Li S. Yin air. blue LEDs, KI, MeCN-H₂O Y. Wu G. Ni* mild reaction conditions (air, water) Yunnan University of Chinese Medicine, P. R. of China wide substrate scope (19 examples)

Syn<mark>lett</mark>

Synlett **2022**, 33, 664–668 DOI: 10.1055/a-1795-7740

C. Xu^{*}

X. Yang Lanzhou Jiaotong University, P. R. of China





Letter

664



Synlett Synlett 2022, 33, 674–678

DOI: 10.1055/s-0041-1737937

- A. L. Jewett J. A. Bondoc B. L. Gilbreath B. J. Reinus S. M. Kerwin*
- Texas State University, USA

Spirocyclic Products via Carbene Intermediates from Thermolysis of 1,2-Dialkynylpyrrole and 1,2-Diethynylimidazole

VIII

Letter 674





Syn <mark>lett</mark>	Bridging Chlorine Atoms Enable the Construction of a Novel	Letter
Synlett 2022 , 33, 684–688 DOI: 10.1055/a-1790-2858	Benzimidazole-Derived Fluorescent Molecule	684
X. Yan B. Jiang G. Fan Y. Zou W. Sang C. Chen* Y. Yuan* Wuhan University of Technolo- gy, P. R. of China	303 nm hv H R R NHCI H N H R NH H CI H N H N H CI H N H CI H N H CI H N H CI H N H N H N H CI H N H CI H N N H	





IX