Synthesis

Reviews and Full Papers in Chemical Synthesis

2019 Vol. 51, No. 3 February I







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Synthesis **2019**, 51, 643–663 DOI: 10.1055/s-0037-1610852

S. Kancherla K. B. Jørgensen* M. Á. Fernández-Ibáñez* University of Stavanger, Norway

Norway University of Amsterdam, The Netherlands

Recent Developments in Palladium-Catalysed Non-Directed C–H Bond	Short Review
Activation in Arenes	643
C—H Functionalisation step-economy atom-efficiency greener approach Pd catalyst	
Traditional approach	

Syn thesis

Synthesis **2019**, *51*, 664–676 DOI: 10.1055/s-0037-1611370

D. J. Modemann

- B. D. Zlatopolskiy E. A. Urusova J. Zischler A. Craig
- J. Ermert M. Guliyev
- H. Endepols B. Neumaier*

Forschungszentrum Jülich GmbH, Germany Uniklinik Köln, Germany Max-Planck-Institut für Stoffwechselforschung, Germany 2-[¹⁸F]Fluorophenylalanine: Synthesis by Nucleophilic ¹⁸F-Fluorination and Preliminary Biological Evaluation



multistep toxic by-products

Feature 664



VII



P. R. of China

A. Nitti* G. Bianchi R. Po D. Pasini*



Ochromatography-free, catalyst-free





O three contiguous quaternary carbon centers

677

683

T

VIII

Syn thesis Cleavage of Catechol Monoalkyl Ethers by Aluminum Triiodide-**Dimethyl Sulfoxide** Synthesis 2019, 51, 704-712 DOI: 10.1055/s-0037-1610996 All₃ (1.1 equiv) RC D. Sang DMSO (1.1-2.5 equiv) J. Tian MeCN, 80 °C, 18 h X. Tu нс

R = Me, Et, *i*-Pr, Bn R' = H, Me, Pr, allyl, alkenyl, CN, CHO keto, amide, Cl. Br. NO2 Jingchu University of Technolo-

НО		/ '
30) subs	trates
34-	-100%	yield

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2)		9		

Z. He

M. Yao

gy, P. R. of China

Synthesis 2019, 51, 713-729 DOI: 10.1055/s-0037-1611059

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Concise Synthesis of Tryptanthrin Spiro Analogues with In Vitro





Paper

Paper

713

704









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