

## Synthesis

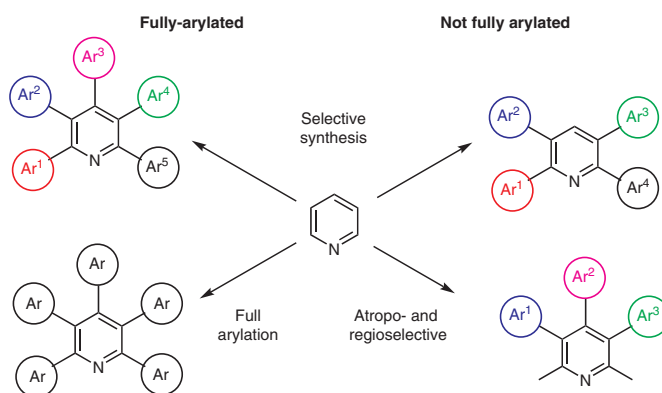
## Arylpyridines: A Review from Selective Synthesis to Atropisomerism

## Review

*Synthesis* 2019, 51, 587–611  
DOI: 10.1055/s-0037-1611365

P. Pomarański  
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587



## Synthesis

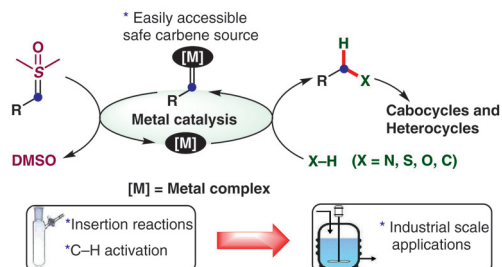
## Sulfoxonium Ylide Derived Metal Carbenoids in Organic Synthesis

## Short Review

*Synthesis* 2019, 51, 612–628  
DOI: 10.1055/s-0037-1610328

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612



## Synthesis

## Directed C–H Functionalization of the Adamantane Framework

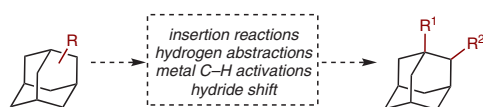
## Short Review

629

*Synthesis* 2019, 51, 629–642  
DOI: 10.1055/s-0037-1610321

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## Synthesis

## Recent Developments in Palladium-Catalysed Non-Directed C–H Bond Activation in Arenes

## Short Review

643

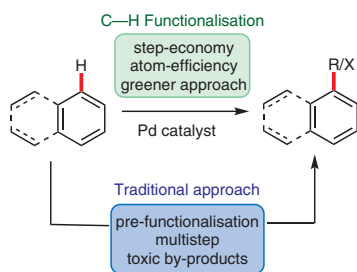
*Synthesis* 2019, 51, 643–663  
DOI: 10.1055/s-0037-1610852

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## Synthesis

2-[<sup>18</sup>F]Fluorophenylalanine: Synthesis by Nucleophilic <sup>18</sup>F-Fluorination and Preliminary Biological Evaluation

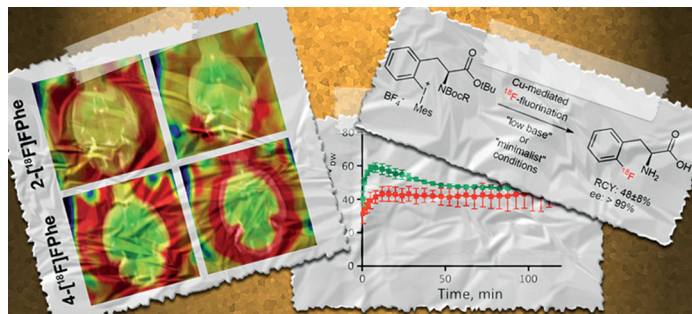
## Feature

664

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

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## Synthesis

Synthesis 2019, 51, 677–682  
DOI: 10.1055/s-0037-1611368

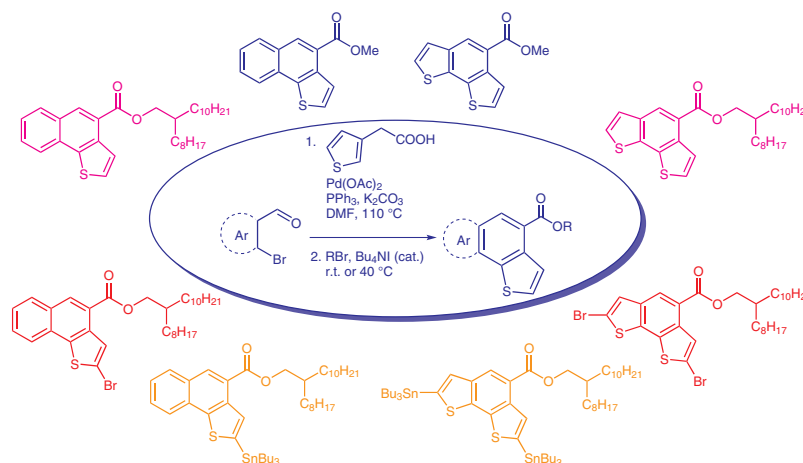
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## Scalable Synthesis of Naphthothiophene and Benzodithiophene Scaffolds as $\pi$ -Conjugated Synthons for Organic Materials

Feature

677



## Synthesis

Synthesis 2019, 51, 683–692  
DOI: 10.1055/s-0037-1610290

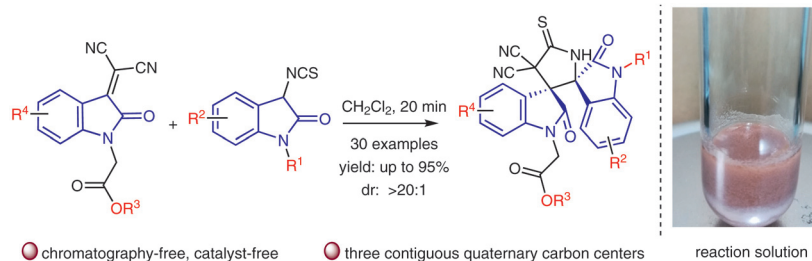
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## Highly Diastereo-, $\alpha$ -Regioselective Catalyst-Free Construction of Adjacent Dispirobisoxindoles with Three Contiguous Quaternary Carbon Centers

Paper

683



## Synthesis

Synthesis 2019, 51, 693–703  
DOI: 10.1055/s-0037-1610267

J. Ma  
J. Zhang  
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## Mn(II)-Catalyzed *N*-Acylation of Amines

Paper

693



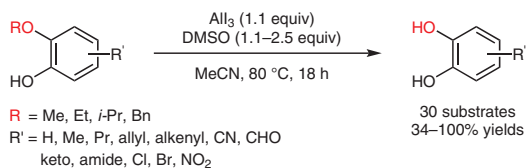
## Synthesis

Synthesis 2019, 51, 704–712  
DOI: 10.1055/s-0037-1610996

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## Cleavage of Catechol Monoalkyl Ethers by Aluminum Triiodide–Dimethyl Sulfoxide



Paper

704

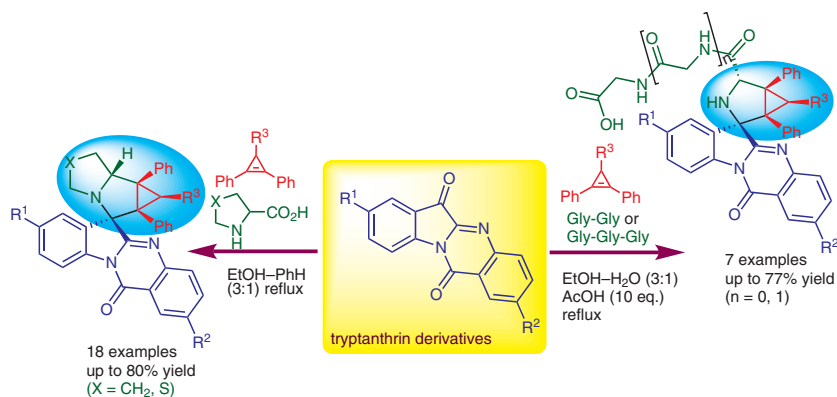
## Synthesis

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

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## Concise Synthesis of Tryptanthrin Spiro Analogues with In Vitro Antitumor Activity Based on One-Pot, Three-Component 1,3-Dipolar Cycloaddition of Azomethine Ylides to Cyclopropenes



Paper

713

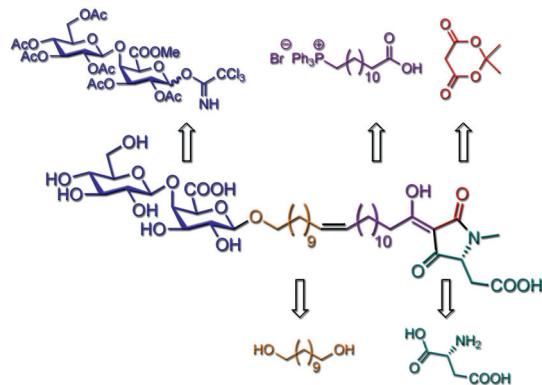
## Synthesis

Synthesis 2019, 51, 730–738  
DOI: 10.1055/s-0037-1610287

M. Petermichl  
C. Steinert  
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## A Synthetic Route to the MT1-MMP Inhibitor Ancorinose D



Paper

730



## Synthesis

Synthesis 2019, 51, 769–779  
DOI: 10.1055/s-0037-1610296

B. Suchand

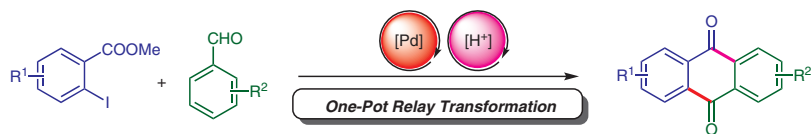
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## Palladium-Catalyzed Direct Acylation: One-Pot Relay Synthesis of Anthraquinones

Paper

769



21 examples  
(55–69% yields)

R<sup>1</sup> = H, Me, F, Br

R<sup>2</sup> = OH, OMe, OEt, -OCH<sub>2</sub>O-

- \* [Pd]-catalyzed direct acylation as the key step
- \* No need for toxic CO gas as carbonylating agent
- \* Simple bench-top aldehydes were used
- \* Friedel–Crafts intramolecular acylation
- \* One-pot synthesis of anthraquinones

## Synthesis

Synthesis 2019, 51, 780–786  
DOI: 10.1055/s-0037-1610997

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## Total Synthesis of 5-Hydroxygoniothalamin

Paper

780

