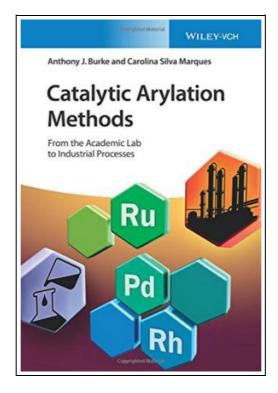
Catalytic Arylation Methods



Filesize: 2 MB

Reviews

Extensive guideline! Its such a great go through. It is definitely basic but surprises in the 50 % of the pdf. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Fernando Hahn)

CATALYTIC ARYLATION METHODS



Condition: New. Publisher/Verlag: Wiley-VCH | From the Academic Lab to Industrial Processes | A current view of this hot yet challenging topic by two authors with academic and industrial expertise, ensuring consistent coverage of the latest developments, as well as industrial applications. With a focus on novel, efficient and sustainable processes. | This "hands-on" approach to the topic of arylation consolidates the body of key research over the last ten years (and up to around 2014) on various catalytic methods which involve an arylation process. Clearly structured, the chapters in this one-stop resource are arranged according to the reaction type, and focus on novel, efficient and sustainable processes, rather than the well-known and established cross-coupling methods. The entire contents are written by two authors with academic and industrial expertise to ensure consistent coverage of the latest developments in the field, as well as industrial applications, such as C-H activation, iron and gold-catalyzed coupling reactions, cycloadditions or novel methodologies using arylboron reagents. A cross-section of relevant tried-and-tested experimental protocols is included at the end of each chapter for putting into immediate practice, along with patent literature. Due to its emphasis on efficient, "green" methods and industrial applications of the products concerned, this interdisciplinary text will be essential reading for synthetic chemists in both academia and industry, especially in medicinal and process chemistry. | Preface XVList of Abbreviations XVII1 Cross-Coupling Arylations: Precedents and Rapid Historical Review of the Field 11.1 Metal-Catalyzed Cross-Couplings: From Its Origins to the Nobel Prize and Beyond 11.2 Arylation: What Is So Special? 121.3 Recent New Developments 141.4 Selected Experiments from the Literature 852 Amine, Phenol, Alcohol, and Thiol Arylation 952.1 Introduction 952.2 Pd-Catalyzed Processes 982.3 Cu-Catalyzed and Promoted Arylations: (CAr-N Bond Formation) 1182.4 Fe-Catalyzed Arylations 1342.5 Ni-Catalyzed Reactions 1372.6 Co-Catalyzed Arylations 1392.7 Mn-Catalyzed Arylations 1402.8 Cd-Catalyzed Arylations 1402.9 Bi(III)...



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