



# Advances in Friedel-Crafts Acylation Reactions: Catalytic and Green Processes

*Giovanni Sartori, Raimondo Maggi*

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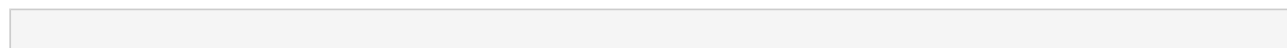
**Advances in Friedel-Crafts Acylation Reactions: Catalytic and Green Processes** Giovanni Sartori, Raimondo Maggi

Used in the production of a wide number of fine chemicals and pharmaceuticals, the Friedel-Crafts acylation reaction represents a synthetic process of great interest to organic chemists of academia and industry. Nearly 40 years since the last major treatise on the topic and reflecting the growing emphasis on *green* technology, **Advances in Friedel-Crafts Acylation Reactions: Catalytic and Green Processes** focuses on how to make this reaction more economically and environmentally friendly by using *green* acylating conditions, thus minimizing the formation of waste and decreasing production costs.

Divided into four parts, the book explores stoichiometric acylations, catalytic homogeneous acylations, catalytic heterogeneous acylations, and phenol acylations. It is structured according to the role played by the catalyst in the activation of reagents as well as in the different modes of regioselectivity encountered in the acylation of arenes, aromatic ethers, and phenols.

Incorporating examples of all acid-catalyzed Friedel-Crafts acylation reactions, the text considers classic Lewis and Brønsted acid types along with more innovative and advanced multicomponent superacid catalysts. These range from rare earth triflates or triflimides and their combination with ionic liquids to metal-promoted zeolites and zeotypes, clays, polymetal oxides, sulfated zirconia, heteropoly acids, and Nafion. The book emphasizes the major industrial applications, providing a critical assessment of the differences, advantages, and disadvantages of homogeneous and heterogeneous catalysis.

Helping readers to better understand the mechanism of the Friedel-Crafts acylation, the examples in the book substantiate the development of more effective catalysts and more selective processes achieved during the last few decades, enabling industry to embark on a safer and more efficient synthesis of aromatic ketones for the manufacture of a wide array of products.



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