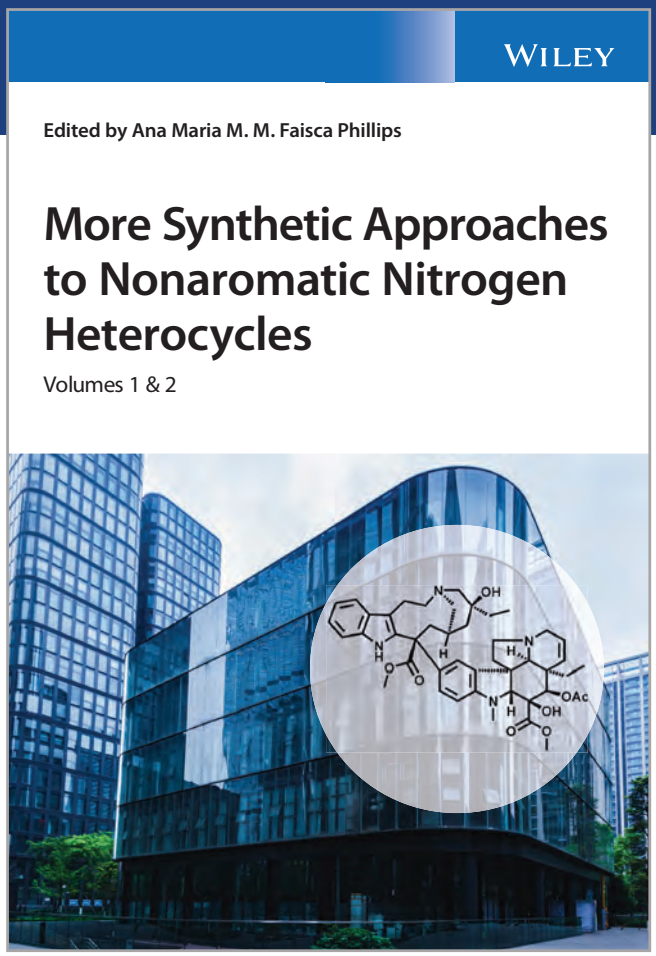
More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles

2 Volumes Set

Edited by

Ana Maria M. M. Faisca Phillips



Chemistry | Organic Chemistry

An authoritative collection of resources discussing the latest trends in the synthesis of nonaromatic nitrogen heterocycles

Widely distributed in nature, nitrogen heterocycles are extremely common in synthetic substances found in pharmaceuticals, agrochemicals, and materials. The literature is evolving rapidly and explores newly emerging structures and medicines. *More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles* offers R&D professionals the opportunity to easily access a collection of the latest relevant research in the area.

Following her earlier work in *Synthetic Approaches to Nonaromatic Nitrogen Heterocycles* (Wiley, November 2020), distinguished researcher Dr. Ana Maria Faísca Phillips delivers a collection of resources focusing on the newest and most widely applicable trends emerging in synthetic strategies for nonaromatic nitrogen heterocycles. With coverage of topics including organocatalysis, cascade reactions, flow chemistry in synthesis, cycloaddition reactions, metathesis, cross-coupling reactions, and electrochemistry, the book provides quick access to critical new avenues of synthesis.

2 Volumes | Print ISBN 9781119757122
Hardcover | April 2022

More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles also offers readers:

- A thorough introduction to recent advances in the design and synthesis of cyclic peptidomimetics
- Comprehensive explorations of fused heterocycles and transition metal promoted synthesis of isoindoline derivatives
- Practical discussions of 1,4-diazepane ring-based systems and recent advances in the synthesis of azepane-based compounds
- In-depth examinations of strained aziridinium ions, asymmetric organocatalysis in alternative media, and the electrochemical synthesis of non-aromatic N-heterocycles

Perfect for academic and industrial researchers in organic chemistry and synthesis, organometallic chemistry, pharmaceutical chemistry catalysis, and sustainable chemistry, *More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles* is an indispensable reference for anyone seeking an authoritative source of information on new and emerging trends in synthesis.

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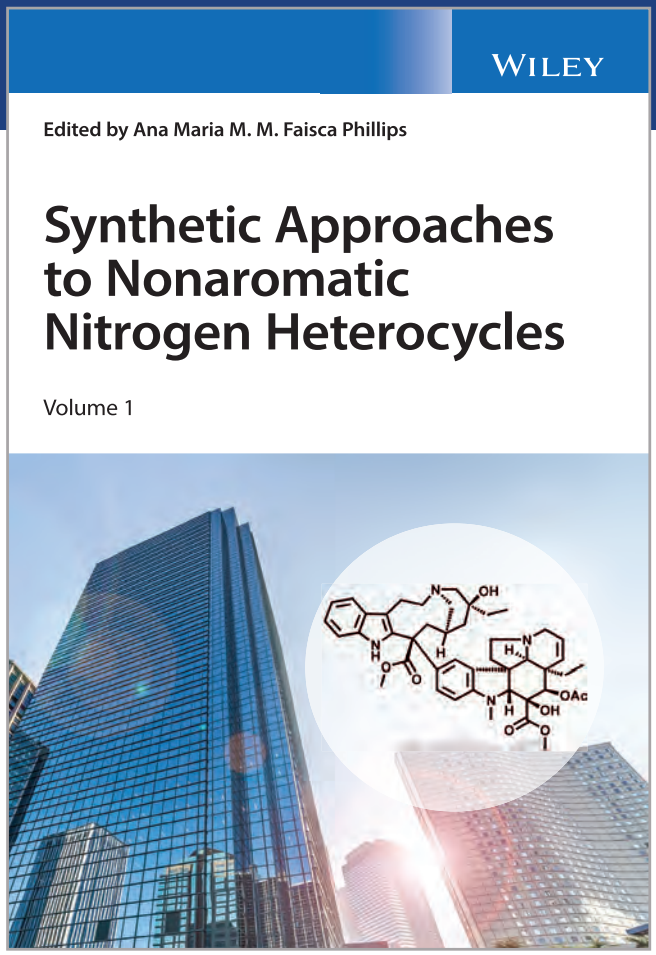

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A comprehensive overview of synthetic strategies for nonaromatic nitrogen heterocycles

Nitrogen heterocycles are extremely widely distributed in nature, as well as in synthetic substances found in pharmaceuticals, agrochemicals, and materials chemistry. With new structures and medicines that include these structures emerging yearly, and a vast new journal literature to describe them, anyone who wants to be effective in R&D needs to easily access a synthesis of the latest research.

This state-of-the-art survey explores recent developments in the most widely used reactions, as well as completely new ones.

- Highlights the major modern synthetic methods known to obtain nonaromatic nitrogen heterocycles, and their practical applications
- Topics include enantioselective synthesis and catalysis, photocatalysis, biocatalysis, microwave-assisted synthesis, reactions of oximes and nitrones, and ionic liquids
- Discusses how to synthesize rings of specific sizes
- Covers sustainable synthetic approaches for obtaining salts

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Whether you are using nonaromatic nitrogen compounds as an academic researcher, a synthetic chemist in industry, or an advanced student, this book is an essential, up-to-date resource to support your work.

THE EDITOR

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