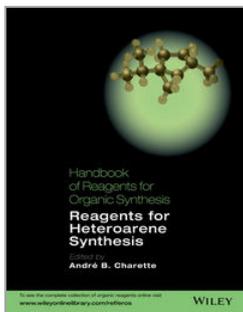


ワイリー社の最新有機化学タイトル

Reagents for Heteroarene Synthesis

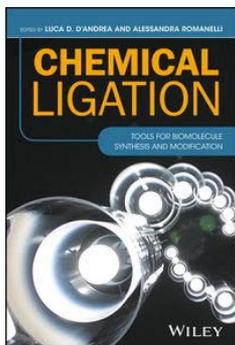


André B. Charette, University de Montreal

ISBN: 978-1-119-95229-9
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装丁: クロス版
ページ数: 728
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The Handbook is a compilation of 99 articles on diverse reagents and catalysts that describe the synthesis of heteroarenes, the building blocks of a wide range of chemicals used in pharma and chemical industries. Articles are selected from the e-EROS database and edited to make sure that it includes only the material relevant to the topic of the book and focus on the synthetic aspects. This makes the articles very focused on the needs of readers wanting information on specific syntheses of specific heteroarenes. In addition, the chemistry of each parent heteroarene is also included to ensure that the reader rapidly finds important information. The Handbook is a part of the *Handbook of Reagents for Organic Chemistry* series, aiming at collecting articles on a particular theme that individual researchers in academia or industry can use on a daily basis.

Chemical Ligation: Tools for Biomolecule Synthesis and Modification



Luca D. D'Andrea and Alessandra Romanelli

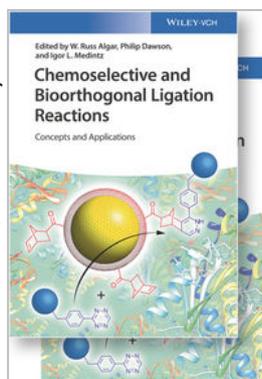
ISBN: 978-1-119-04410-9
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装丁: クロス版
ページ数: 576
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Presenting a wide array of information on chemical ligation – one of the more powerful tools for protein and peptide synthesis – this book helps readers understand key methodologies and applications that protein therapeutic synthesis, drug discovery, and molecular imaging.

- Moves from fundamental to applied aspects, so that novice readers can follow the entire book and apply these reactions in the lab
- Presents a wide array of information on chemical ligation reactions, otherwise scattered across the literature, into one source

- Features comprehensive and multidisciplinary coverage that goes from basics to advanced topics
- Helps researchers choose the right chemical ligation technique for their needs

Chemoselective and Bioorthogonal Ligation Reactions: Concepts and Applications, 2 Volume Set

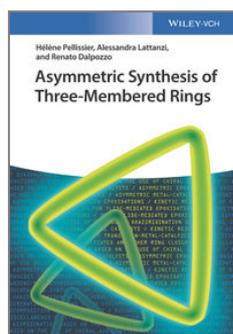


W. Russ Algar; Philip Dawson and Igor L. Medintz, U.S. Naval Research Laboratory, Washington, USA

ISBN: 978-3-527-33436-0
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特価: US\$335.00
(2017年5月31日迄)
以降: US\$365.00
(2017年4月現在価/変動有り)

This timely, one-stop reference is the first on an emerging and interdisciplinary topic. Covering both established and recently developed ligation chemistries, the book is divided into two didactic parts: a section that focuses on the details of bioorthogonal and chemoselective ligation reactions at the level of fundamental organic chemistry, and a section that focuses on applications, particularly in the areas of chemical biology, biomaterials, and bioanalysis, highlighting the capabilities and benefits of the ligation reactions. With chapters authored by outstanding scientists who range from trailblazers in the field to young and emerging leaders, this book on a highly interdisciplinary topic will be of great interest for biochemists, biologists, materials scientists, pharmaceutical chemists, organic chemists, and many others.

Asymmetric Synthesis of Three-Membered Rings



Hélène Pellissier; Alessandra Lattanzi and Renato Dalpozzo

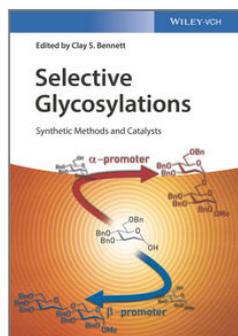
ISBN: 978-3-527-34114-6
出版: 2017年4月
装丁: クロス版
ページ数: 608
価格: US\$170.00
(2017年4月現在価/変動有り)

The first handbook to focus on the asymmetric synthesis of different types of three-membered rings.

The outstanding and experienced authors have an excellent international reputation and cover cyclopropanes, epoxides and aziridines as well as chiral oxaziridines in equal measure. To this end, they describe in detail different synthetic approaches starting with chiral substrates as well as the application of chiral metal- or organocatalysts. Furthermore, methods for the kinetic resolution of initially racemic products are treated alongside recent advances and novel developments in established techniques for the synthesis of three-membered rings.

With its structured composition this is of high interest to scientists in methodological and natural product synthesis as well as those in industrial and pharmaceutical chemistry.

Selective Glycosylations: Synthetic Methods and Catalysts



Clay S. Bennett

ISBN: 978-3-527-33987-7

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装丁: クロス版

ページ数: 400

価格: US\$205.00

(2017年4月現在価/変動有り)

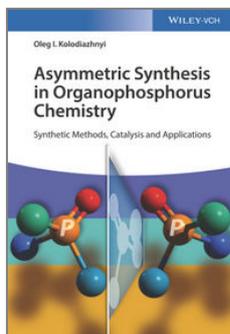
A comprehensive summary of novel approaches to the stereoselective construction of glycosidic linkages, covering modern glycosylation methods and their use and application in natural product synthesis and drug discovery.

Clearly divided into five sections, the first describes recent advances in classical methodologies in carbohydrate chemistry, while the second goes on to deal with newer chemistries developed to control selectivity in glycosylation reactions. Section three is devoted to selective glycosylation reactions that rely on the use of catalytic promoters. Section four describes modern approaches for controlling regioselectivity in carbohydrate synthesis. The final section focuses on new developments in the construction of "unusual" sugars and is rounded off by a presentation of modern procedures for the construction of glycosylated natural products.

By providing the latest advances in glycosylation as well as

information on mechanistic aspects of the reaction, this is an invaluable reference for both specialists and beginners in this booming interdisciplinary field that includes carbohydrate chemistry, organic synthesis, catalysis, and biochemistry.

Asymmetric Synthesis in Organophosphorus Chemistry: Synthetic Methods, Catalysis and Applications



Oleg I. Kolodiazny, Academy of Sciences of Ukraine, Kiev, Ukraine

ISBN: 978-3-527-34150-4

出版: 2016年11月

装丁: クロス版

ページ数: 392

価格: US\$205.00

(2017年4月現在価/変動有り)

Authored by one of the leading experts in the field, this is the only comprehensive overview of chiral organophosphorus compounds, from asymmetric synthesis to catalysis and pharmacological applications. As such, this unique reference covers the chemical background as well as spectroscopical analysis of phosphorus compounds, and thoroughly describes all the various synthetic strategies for these substances. Metal-, organo- and biocatalyzed reactions for the introduction of phosphorus are explained as are asymmetric oxidation and reduction methods for the preparation of all possible oxidation states of phosphorus. The text also includes industrial applications for these compounds.

Of particular interest to chemists working in the field of asymmetric synthesis, as well as to the pharmaceutical industry due to the increasing number of phosphorous-containing drugs.

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