

Release: SOS 4.16, December 2019

What's New?

Content

1. New: Science of Synthesis Knowledge Updates

SOS is continuously updated with high-quality content using clearly defined criteria for method selection as well as established editorial processes. The Editorial Board, in conjunction with the volume editors and expert authors, reviews the whole field of synthetic organic chemistry as presented in SOS and evaluates significant developments in synthetic methodology.

This release will see the addition of **one new update volume** comprising approx. **450 printed pages**.

SOS Knowledge Updates 2019/2 highlights:

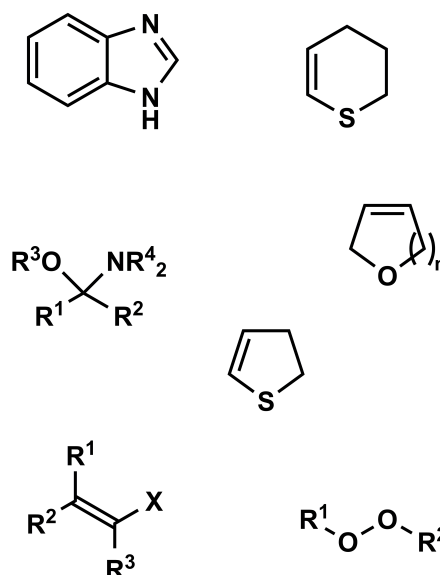
Reflecting the continuing importance of many aromatic and (partially) saturated heterocyclic systems in pharmaceutical and medicinal chemistry, this release includes updates on the synthesis of **benzimidazoles** (F. M. Irudayanathan and S. Lee), **2,3-dihydrothiophenes** and **3,4-dihydro-2H-thiopyrans** (D. Witt), and **five-membered and larger-ring oxacycloalk-3-enes** (Z. Zhang and R. Tong).

Updates on the synthesis of **O,N acetals** (S. Minakata, K. Kiyokawa, and Y. Takeda), and the **deprotection of S,S-acetals** (K. Sugamata and T. Sasamori) are also included.

Halogenated compounds have many synthetic applications, not least in cross-coupling chemistry, and an update on the synthesis of **chloro-, bromo-, and iodoalkenes** (P. Huy and C. Czekelius) presents new and improved ways of making some of these important compounds.

A review on **metal-catalyzed synthesis of peroxides** (B. Gnanaprakasam and M. B. Chaudhari) will bring you up to date on the advances in this area.

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This release includes one new reference library volume:

Advances in Organoboron Chemistry towards Organic Synthesis
(approx. 500 printed pages).

Volume Editor: **E. Fernández**

2. New: Science of Synthesis Reference Library

The Reference Library comprises volumes covering special topics in organic chemistry. With expert evaluated content focusing on subjects of particular current interest, the SOS Reference Library complements the SOS Knowledge Updates to make SOS the complete information source for the modern synthetic chemist.

The widespread use of organoboron compounds justifies the efforts devoted to their synthesis, as well as toward developing an understanding of their reactivity. The nature of the mono- or diboron species is of paramount importance in determining the reversible covalent binding properties of the boron atom with both nucleophiles and electrophiles. By wedding the rich chemical potential of organoboron compounds to the ubiquity of organic scaffolds, advanced borylation reactions have the potential to open unprecedented synthetic alternatives, and new knowledge in the field should encourage chemists to use organoboron compounds. In this volume, the main objective is to provide a collection of the most useful, practical, and reliable methods, reported mainly within the last decade, for boron activation and boron reactivity. The volume covers the main concepts of organoboron compounds and includes experimental procedures, enabling newcomers to the field the instant and reliable application of the new tools in synthesis. Rather than aiming for a comprehensive coverage, the most advanced solutions for challenging transformations are introduced. To this end, a team of pioneers and leaders in the field have been assembled who discuss both the practical and conceptual aspects of this rapidly growing field.