

What's
New?

Release: SOS 4.13, March 2019

Content

1. New: Science of Synthesis Knowledge Updates

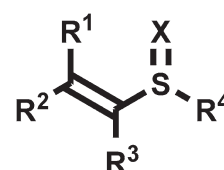
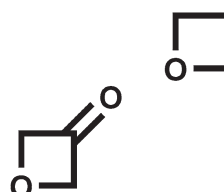
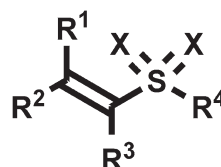
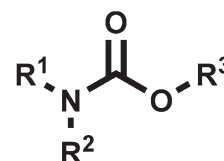
SOS is continuously updated with high-quality content using clearly defined criteria for method selection as well as established editorial processes. The Editorial Board, in conjunction with the volume editors and expert authors, reviews the whole field of synthetic organic chemistry as presented in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

This release will see the addition of **one new update volume** comprising approx. **500 printed pages**.

SOS Knowledge Updates 2018/4 highlights:

A major update on the synthesis and application of **bismuth compounds** (A. Gagnon, E. Benoit, and A. Le Roch), an area which has seen much growth in recent years.

Updates on **carbamic acids and esters** (J. Podlech), **tetraheterosubstituted methanes with a carbon-halogen bond** (M. Kleoff, K. Omoregbee, and R. Zimmer), various alkenylsulfur compounds including **alk-1-enesulfonic acids, alk-1-enyl sulfones, S-alk-1-enylsulfoximides, alk-1-enesulfinic acids, alk-1-enyl sulfoxides, and sulfimides** (R. Kawecki), and **oxetanes and oxetan-3-ones** (R. A. Croft and J. A. Bull)





This release includes one new reference library volume:
Photocatalysis in Organic Synthesis
i.e. a total of approx 630 pages.
Volume Editor: B. König

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 use of light in organic synthesis, more specifically the use of visible light in photoredox catalysis, has developed rapidly over the last 15 years and it is now time to define its impact on the field. Aimed at both newcomers to the field and experts alike, *Photocatalysis in Organic Synthesis* introduces the important basic concepts of photophysics and describes typical laboratory set-ups for photoredox catalysis, thus enabling instant and reliable application of these new synthetic tools. Key photocatalytic transformations are discussed in detail, including representative experimental procedures, followed by a collection of industrial case studies. Rather than aiming for a comprehensive coverage, solutions are presented for challenging transformations in synthesis that employ visible light and suitable dyes. To this end, the authors, a team of pioneers and leaders in the field, discuss both the practical and conceptual aspects of this rapidly growing area of synthetic chemistry. A primary objective is to present a collection of the most useful, practical, and reliable methods of photocatalysis to a wider audience.

Software Updates

1. Links are now included to related Synfacts, Synthesis, Synlett, and Pharmaceutical Substances content via the Thieme Chemistry discovery tool SynOne.
2. Support for “half-reactions” (reactions where only a starting material OR product is defined) in the reaction search tool.