

Release: SOS 4.0, March 2014



Software

1. New Interface and Product Design

Based on customer and expert feedback the SOS interface has been completely redesigned and streamlined. The emphasis of SOS 4.0 is on the provision of an intuitive interface so that little or no product training is needed for the end user. Searching for relevant synthetic methodology has never been easier.

A **simple search screen for text and structure/reaction searching** means that the end user just needs to input the keyword, structure or reaction that they are interested in. There is no need to input large amounts of information in order to get effective results anymore. The implementation of technically sophisticated text and reaction search engines (detailed in points 2 and 3 below) means that **powerful searches** are carried out within **seconds**. The **relevant results** which have already been **evaluated** are then displayed as an **interactive hitlist**. **Faceted navigation** means that end users can explore the results using **multiple filters**. **Full-text** contributions and **experimental procedures** are also **instantly accessible** via the hitlist.

2. Enriched Text Search Functionality

SOS is now successfully running on a MarkLogic platform. MarkLogic is known for the provision of state-of-the-art text search functionality. End users can now carry out real time text searches, display, sort and filter the results as well as save their search queries and hitlists.

3. Enhanced Structure/Reaction Searching and Retrieval

The RSA search (Reaction Search Automatic, All-in-One Reaction Search) from InfoChem has been implemented. The “all-in-one” reaction search operator retrieves results from combined reaction, exact and substructure searches and orders them according to relevance. Therefore the end user now gains access to a ranked list of hits of relevance having only input one single query.

4. New PDF Download and Enhanced Print Options

End users can now download selected full-text chapters in PDF format. Enhanced print options mean that it is possible to print out pages or chapters as necessary.

5. New Navigation Options

The “breadcrumb trail” associated with each chapter as well as the “Explore Contents” tab, which provides a detailed and interactive table of contents for the entire set of works, mean that the end user has access to essential navigation tools. These tools also help the end user to browse through the content and to quickly identify other useful methodology or interesting functional groups and subject areas.

6. New Personalization Options – MySOS

The MySOS option allows the end user to personalize SOS. Once registered the end user can save his/her queries and hitlists for future reference.

7. Improved Linking

Outbound DOIs (digital object identifiers) mean that the end user can link out to the full text of cited journals. Inbound DOIs enable the easy identification and citation of each SOS chapter (they also enable linking from external sources).

8. New Citation Functionality

A new bibliographic exporter can generate and export chapter bibliographic information in RIS, RefWorks, BibTeX or plain text format.

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 authors, reviews the whole field of synthetic organic chemistry as presented in SOS and evaluate significant developments in synthetic methodology.

A list of strict criteria for method selection guides the updating process in order to guarantee that only the best and most reliable synthetic methods are included in SOS. Authors, who are renowned specialists in their respective fields, add new methods and add new (or completely revise existing) product (sub) classes.

The updating procedure is continuous and new content will continually be added to the electronic version. SOS continues to be the most up-to-date evaluated electronic reference work available, emphasizing the most significant developments in synthetic methodology.

This release will see the addition of **10 new update volumes** comprising approx., **5,000 printed pages**.

2. New: Science of Synthesis Reference Library

The Reference Library comprises volumes covering special topics of organic chemistry in a modular fashion, with six main classifications: 1) classical, 2) advances, 3) transformations, 4) applications, 5) structures, and 6) techniques. 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.

This release includes **6 new reference library volumes: *Stereoselective Synthesis*** Vols. 1-3 (P.A. Evans, G.A. Molander, J.G. de Vries); ***Asymmetric Organocatalysis*** Vols. 1-2 (B. List, K. Maruoka) and ***Water in Organic Synthesis*** (S. Kobayashi) i.e. a total of **6,046 printed pages**.

Overview of Content Availability in SOS 4.0, March 2014

Work	Text and Graphics Available?	Structure/Reaction Index Available?
Houben-Weyl Series	Yes, scanned PDFs available for browsing and download	No, not structure searchable
Science of Synthesis Original Series Vols. 1-48	Yes, text searching available and chapter PDFs available for download	Yes, all reactions and structures indexed and searchable
Science of Synthesis Knowledge Updates 2010 (Vols. 1-4) and 2011 (Vols. 1-3)	Yes, text searching available and chapter PDFs available for download	Yes, all reactions and structures indexed and searchable
Science of Synthesis Knowledge Updates 2011 (Vol. 4) and 2012 (Vols. 1 and 2)	Yes, text searching available and chapter PDFs available for download	Being indexed currently for an upcoming release
Science of Synthesis Knowledge Updates 2012 (Vols. 3 and 4), 2013 (Vols. 1-4) and 2014 (Vol.1)	Currently being prepared for an upcoming future release	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: Stereoselective Synthesis (Vols. 1-3)	Yes, text searching available and chapter PDFs available for download	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: Asymmetric Organocatalysis (Vols. 1 and 2)	Yes, text searching available and chapter PDFs available for download	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: Water in Organic Synthesis	Yes, text searching available and chapter PDFs available for download	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: Cross Coupling and Heck-Type Reactions (Vols. 1-3)	Currently being prepared for an upcoming release	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: Multicomponent Reactions (Vols. 1 and 2)	Currently being prepared for an upcoming release	Being indexed currently for an upcoming release
Science of Synthesis Reference Library: C-1 Building Blocks in Organic Synthesis (Vols. 1 and 2)	Currently being prepared for an upcoming release	Being indexed currently for an upcoming release