

Monographs

Protecting Groups

This monograph provides a critical survey of protecting group methodology and focuses on the most widely used protecting groups for the most common functional groups. Therefore it serves as an essential learning tool for advanced students and professionals in a broad range of disciplines involving organic synthesis. Protecting Groups is organized by functional group and places special emphasis on deprotection conditions applied to complex structures where selectivity is a key issue. It includes 1,200 schemes and 2,270 references.



PDF · 3rd Edition 2005 · 668 pages

Spectroscopic Methods in Organic Chemistry

Spectroscopic Methods in Organic Chemistry covers all aspects of modern spectroscopic methodology. It provides the necessary equipment for the application of spectroscopic methods in organic chemistry, for both students and professional chemists. The following methods are explained and examples given:

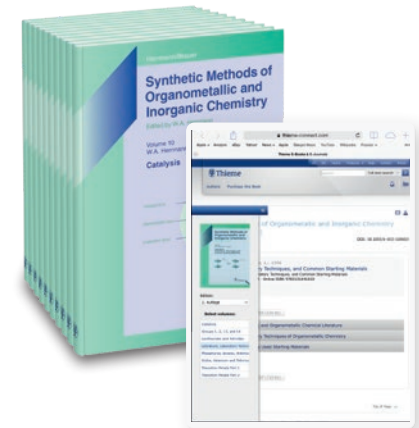
- UV/Vis Spectroscopy
- Infrared (IR) and Raman Spectroscopy
- Nuclear Magnetic Resonance Spectroscopy (NMR)
- Mass spectrometry (MS)



PDF · 3rd Edition 2021 · 512 pages

Synthetic Methods of Organometallic and Inorganic Chemistry

This series includes detailed and reliable experimental procedures for the preparation of common but important starting compounds, organized according to the periodic table. Properties of the compounds and additional references are also provided. In most cases, no strict borderline has been drawn between inorganic and organometallic compounds. Instead, the material is conveniently presented so that for every group of elements, the various aspects of the chemistry are combined.

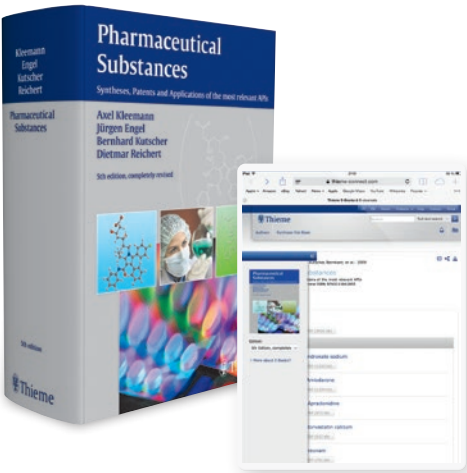


Subject	Volume	Year	Pages	Format
Literature, Laboratory Techniques, and Common Starting Materials	1	1996	192	PDF
Groups 1, 2, 13, and 14	2	1996	320	
Phosphorus, Arsenic, Antimony, and Bismuth	3	1996	240	
Sulfur, Selenium, and Tellurium	4	1997	244	
Copper, Silver, Gold, Zinc, Cadmium, and Mercury	5	1997	258	
Lanthanides and Actinides	6	1997	236	
Transition Metals Part 1	7	1997	306	
Transition Metals Part 2	8	1997	266	
Transition Metals Part 3	9	2000	33	
Catalysis	10	2002	253	

Pharmaceutical Substances

Pharmaceutical Substances provides users with a compendium of over 1,300 of the most significant pharmaceutical compounds that are of interest to the chemical and pharmaceutical industries. All compounds are organized alphabetically according to their International Non-proprietary Name (INN). For added ease of use, the book features four indexes:

- Trade Names
- Intermediates
- Enzymes, Microorganisms, Plants and Animal Tissues
- Substance Classes



PDF · 5th Edition 2009 · 1,800 pages

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SERIES

- Science of Synthesis
- Houben-Weyl

MONOGRAPHS

- Protecting Groups
- Spectroscopic Methods
- Synthetic Methods of Organometallic and Inorganic Chemistry
- Pharmaceutical Substances

Science of Synthesis Series

Your Expert Guide To Making Molecules.

Science of Synthesis provides a critical review of the synthetic methodology developed from the early 1800s to-date for the entire field of organic and organometallic chemistry. Written by chemists for chemists, SOS presents expert recommendations from over 2,500 contributors as well as unique insights into the scope and limitations of synthetic methods. It is the largest resource for evaluated full-text reviews of organic and organometallic transformations and experimental procedures.



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Science of Synthesis is an indispensable tome of chemical information organized in an intuitive and logical way. It contains information on nearly every aspect of chemical reactivity and, for me, is the “go-to” resource for rapidly learning about a new area. I use it regularly in preparation for classes and for consulting visits – it simply gives me the information I need far more easily than any search engine is capable of – and very often contains references and insight that cannot be found anywhere else.

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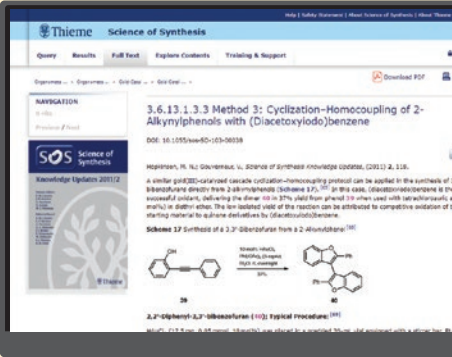
Shuanhu Gao
East China Normal University, Shanghai, P. R. of China

Science of Synthesis has done a nice job of establishing a useful resource for synthetic chemists including some important contributions from my industry colleagues. It’s important to remember that industry has considerable expertise here, and this provides a powerful forum for scientific exchange.

I strongly recommend Science of Synthesis because it not only provides an effective method to find information for your research, but also is a very useful resource to organic chemists and graduate students. From SoS, you can easily find the history and development of each type of reaction. [...] Try it, I really believe you will find something different here.

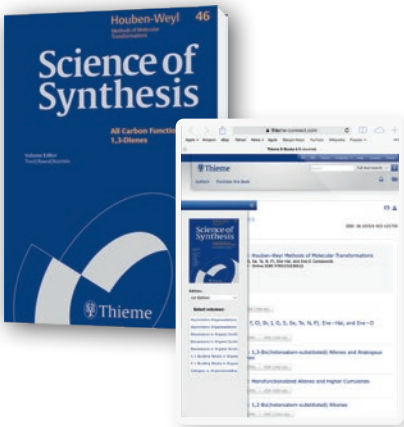
Science of Synthesis online

The text- and structure-searchable online version of Science of Synthesis allows rapid lead generation and route optimization. The intuitive search function provides comprehensive hit lists including illustrating schemes. It gives easy access to the full-text reviews of methods and experimental procedures in Science of Synthesis and Houben-Weyl and to related primary literature. An interactive table of contents allows convenient browsing of the content and gives a comprehensive overview of the field.



Science of Synthesis – Original Edition

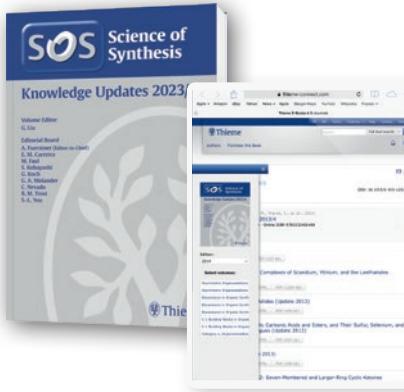
The original series, published between 2000 and 2010, comprises 48 volumes covering the whole field of organic and organometallic chemistry, organized in six categories. It includes 28,000 generally applicable synthetic methods and 250,000 reactions for over 2,700 different kinds of organic compounds. Six volumes were split into two parts (e.g. 8a and 8b), so that the total series includes 54 volumes and 6 additional index volumes.



Subject	Category	Volume	Format
Organometallics	1	1–8	PDF
Hetarenes and Related Ring Systems	2	9–17	
Compounds with Four and Three Carbon—Heteroatom Bonds	3	18–24	
Compounds with Two Carbon—Heteroatom Bonds	4	25–33	
Compounds with One Saturated Carbon—Heteroatom Bond	5	34–42	
Compounds with All-Carbon Functions	6	43–48	

Science of Synthesis – Knowledge Updates

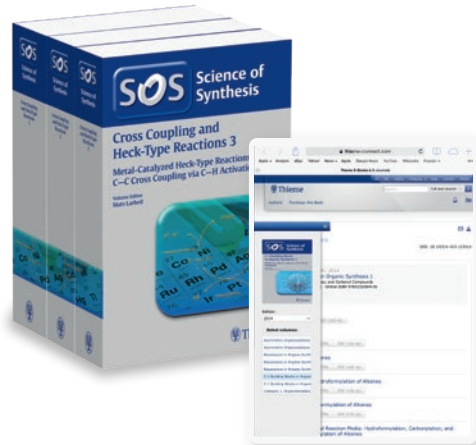
Since 2010, Science of Synthesis is continuously updated with high-quality content using clearly defined criteria for method selection as well as established editorial processes. The Editorial Board, in conjunction with the volume editors and authors, reviews the whole field of synthetic organic chemistry as presented in Science of Synthesis and evaluate significant developments in synthetic methodology. Authors, who are renowned specialists in their respective fields, add new methods and add new (or completely revise existing) product (sub) classes. Each year 2–4 Knowledge Updates volumes are published.



Contributions	Volume	Year	Format
57	1–4	2010	PDF
40	1–4	2011	
44	1–4	2012	
35	1–4	2013	
44	1–4	2014	
30	1–2	2015	
17	1–3	2016	
33	1–3	2017	
30	1–4	2018	
22	1-3	2019	
34	1-3	2019	
27	1-3	2021	
24	1-3	2022	
16	1-2	2023	
32	1-3	2024	

Science of Synthesis – Reference Library

The Reference Library volumes focus on subjects of particular current interest. Each set gives a broad overview of the state of the art in the specific field and provides critical reviews of organic transformations by experts, including experimental procedures. The series highlights new angles and perspectives of importance in organic synthesis. It comprises volumes covering special topics of organic chemistry in a modular fashion, with six main classifications (Classical, Advances, Transformations, Applications, Structures, and Techniques).



Subject	Volumes	Year	Volume Editor	Format
Stereoselective Synthesis	3	2010	De Vries/Molander/Evans	PDF
Water in Organic Synthesis	1	2011	Kobayashi	
Asymmetric Organocatalysis	2	2011	List/Maruoka	
Cross Coupling and Heck-Type Reactions	3	2012	Molander/Wolfe/Larhed	
Multicomponent Reactions	2	2013	Müller	
C-1 Building Blocks in Organic Synthesis	2	2013	Van Leeuwen	
Biocatalysis in Organic Synthesis	3	2014	Faber/Fessner/Turner	
Catalytic Transformations via C–H Activation	2	2015	Yu	
Domino Transformations in Organic Synthesis	2	2015	Snyder	
Metal-Catalyzed Cyclization Reactions	2	2016	Ma/Gao	
N-Heterocyclic Carbenes in Catalytic Organic Synthesis	2	2017	Nolan/Cazin	
Catalytic Oxidation in Organic Synthesis	2	2018	Muñiz	
Catalytic Reduction in Organic Synthesis	2	2018	De Vries	
Flow Chemistry in Organic Synthesis	1	2018	Jamison	
Photocatalysis in Organic Synthesis	1	2018	Koenig	
Dynamic Kinetic Resolution (DKR) and Dynamic Kinetic Asymmetric Transformations (DYKAT)	1	2022	Bäckvall	
Base-Metal Catalysis	2	2023	Yoshikai	
Cross-Dehydrogenative Coupling	1	2023	Maiti	
DNA-Encoded Libraries	1	2024	Scheuermann/Li	

Houben-Weyl

The classic Houben–Weyl reference work series features selected methods and detailed experimental procedures as well as numerous tables of examples. The extensive use of formula schemes helps make the earlier German-language volumes more readily understandable to non-German readers.

Houben-Weyl Editions	Volumes	Years	Language	Format
1st edition	2	1909–1911	German	PDF
2nd edition	4	1921–1924	German	
3rd edition	4	1924–1941	German	
4th edition	67	1952–1987	German	
E-Series (Supplementary volumes)	23	1982–2003	German until 1990 English from 1990	

- Overall Scope
- 160,000 pages (160 volumes)
 - 580,000 structures
 - 146,000 experimental procedures
 - 700,000 references (back to the 1800s)

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