课程代码（Coursenumber）

CHM 536

课程对象（Audience）

Primarily for Graduates

开课教师（Teacher）

学期（Semester）

课程描述（Description））

The course will focus on using multipulse and multidimensional NMR spectroscopy techniques for structure elucidation and characterization of complex organic molecules. Prior fundamental knowledge of NMR is assumed. Technology and application of selective irradiation 1D and a variety of nD methods, including optimal parametrization, data processing and data analysis will be discussed in detail; design and applications of multidimensional homo- and heteronuclear correlation spectroscopy, gradient-based and diffusion-based methods; rational strategies for structure determination and verification will be demonstrated using real life examples.

课时信息（Totalhours）

教参信息（Textbookinfo）

1 Understanding the Principles of Organic Chemistry: A Laboratory Course by Steven F. Pedersen and Arlyn M. Myers (Hardcover - Jan. 1, 2010)

ISBN-13: 978-0495829935

世界各地拥有馆藏的图书馆（OCLC）:14

2 Understanding the Principles of Organic Chemistry: A Laboratory Course, Reprint by Steven F. Pedersen and Arlyn M. Myers (Hardcover - Apr. 27, 2010)

ISBN-13: 978-1111428167

3 Organic Chemistry Principles and Industrial Practice by Mark M. Green and Harold A. Wittcoff (Paperback - Oct. 24, 2003)

ISBN-13: 978-3527302895

世界各地拥有馆藏的图书馆（OCLC）:339

4 Experimental Organic Chemistry: Principles and Practice by Laurence M. Harwood and Christopher J. Moody (Hardcover - Jan. 1990)

ISBN-13: 978-0632020164

5 Methods and Principles in Medicinal Chemistry: Microwaves in Organic and Medicinal Chemistry by C. Oliver Kappe, Alexander Stadler, Raimund Mannhold, and Hugo Kubinyi (Hardcover - Nov. 4, 2005)

ISBN-13: 978-3527312108

世界各地拥有馆藏的图书馆（OCLC）:275

6 Molecular Diversity and Combinatorial Chemistry, Volume 24: Principles and Applications (Tetrahedron Organic Chemistry) by Michael C. Pirrung (Hardcover - Nov. 23, 2004)

ISBN-13: 978-0080444932

世界各地拥有馆藏的图书馆（OCLC）:106

7 Principles of Protein X-Ray Crystallography (Springer Advanced Texts in Chemistry) by Jan Drenth (Hardcover - Nov. 9, 2006)

ISBN-13: 978-0387333342

世界各地拥有馆藏的图书馆（OCLC）:187

8 Principles of Molecular Photochemistry: An Introduction by Nicholas J. Turro, J. C. Scaiano, and V. Ramamurthy (Paperback - Oct. 30, 2008)

ISBN-13: 978-1891389573

世界各地拥有馆藏的图书馆（OCLC）:267

9 Conformational Concept For Synthetic Chemist's Use: Principles and in Lab Exploitation by Anatoly M. Belostotskii (Hardcover - Oct. 15, 2010)

ISBN-13: 978-9812814098

世界各地拥有馆藏的图书馆（OCLC）:4

10 Schaum's Outline of College Chemistry, Ninth Edition (Schaum's Outlines) by Jerome Rosenberg, Lawrence Epstein, and Peter Krieger (Paperback - Aug. 20, 2009)

ISBN-13: 978-0071635301

世界各地拥有馆藏的图书馆（OCLC）:71