课程名（Coursename）

Physical Inorganic Chemistry

课程代码（Coursenumber）

5.068

课程对象（Audience）

Graduate H-level Grad Credit

选课前提（prerequisite）

5.03, 5.04

单元（units）

2-0-4

添加至时间表 （add to schedule）

Lecture: TR8.30-10 (BEGINS MARCH 30) (56-114) +final

开课教师（Teacher）

S. J. Lippard

学期（Semester）

spring term

课程描述（Description）

Discussion of physical methods used to probe the electronic and geometric structures of inorganic compounds. Included are resonance Raman spectroscopy, solid state and solution magnetochemical methods, electron paramagnetic resonance spectroscopy, advanced EPR methods (ENDOR AND ESEEM), cryoreduction to create EPR-active states, X-ray absorption spectroscopy (XANES and EXAFS), Mossbauer spectroscopy, and advanced kinetic and electrochemical methods. Applications to current research problems in inorganic and bioinorganic chemistry.

课时信息（Totalhours）

教参信息（Textbookinfo）

1 Physical Inorganic Chemistry: A Coordination Chemistry Approach by S. F. A. Kettle

Publisher: W H Freeman & Co (Sd) (August 1999)

ISBN-13: 978-0716745143

2 Physical Inorganic Chemistry: Principles, Methods, and Reactions by Andreja Bakac

Publisher: Wiley (April 19, 2010)

ISBN-13: 978-0470224199

世界各地拥有馆藏的图书馆（OCLC）:32

3 Physical Inorganic Chemistry Applications by A. Bakac

Publisher: Wiley (April 26, 2010)

ISBN-13: 978-0470224205

世界各地拥有馆藏的图书馆（OCLC）:30

4 Understanding Advanced Physical Inorganic Chemistry: The Learner's Approach by Jeanne Tan and Kim Seng Chan (Hardcover - Oct. 11, 2010)

Publisher: World Scientific Publishing Company (October 11, 2010)

ISBN-13: 978-9814317269

世界各地拥有馆藏的图书馆（OCLC）:1

5 Physical Inorganic Chemistry, Set by Andreja Bakac (Hardcover - Apr. 26, 2010)

Publisher: Wiley (April 26, 2010)

ISBN-13: 978-0470580226

世界各地拥有馆藏的图书馆（OCLC）:3

6 Chemistry³: Introducing Inorganic, Organic and Physical Chemistry by Andy Burrows, Andy Parsons, Gareth Price, and Gwen Pilling (Paperback - May 29, 2009)

Publisher: Oxford University Press, USA (May 29, 2009)

ISBN-13: 978-0199277896

世界各地拥有馆藏的图书馆（OCLC）:77

7 Synthesis and Technique in Inorganic Chemistry: A Laboratory Manual by Gregory S. Girolami, Thomas B. Rauchfuss, and Robert J. Angelici (Paperback - Aug. 1, 1999)

Publisher: University Science Books; 3rd edition (August 1, 1999)

ISBN-13: 978-0935702484

8 Chemistry: An Introduction to Organic, Inorganic & Physical Chemistry by Catherine E. Housecroft and Edwin C. Constable (Paperback - Oct. 30, 2005)

Publisher: Pearson Prentice Hall; 3 edition (October 30, 2005)

ISBN-13: 978-0131275676

世界各地拥有馆藏的图书馆（OCLC）:71

9 Inorganic Chemistry by James House and James E. House (Paperback - Aug. 8, 2008)

Publisher: Academic Press (August 8, 2008)

ISBN-13: 978-0123567864

世界各地拥有馆藏的图书馆（OCLC）:199

10 Concise Inorganic Chemistry by J. D. Lee (Paperback - Feb. 10, 1999)

Publisher: Wiley-Blackwell; 5 edition (February 10, 1999)

ISBN-13: 978-0632052936