课程代码（Coursenumber）  
CHM 544  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
  
学期（Semester）  
  
课程描述（Description））  
A course in inorganic physiology and biochemistry, presenting the chemical principles adopted by nature to perform biological functions. Topics include metal ion function in protein and nucleic acid structure, metalloenzyme mechanisms, metal regulation of gene expression, biological energy conversion via ion pumping, storage and mobilization of the elements, and biomineralization.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Bioinorganic Vanadium Chemistry (Inorganic Chemistry: A Textbook Series) by Dieter Rehder (Paperback - Apr. 25, 2008)  
ISBN-13: 978-0470065167  
世界各地拥有馆藏的图书馆（OCLC）:94  
2 The Biological Chemistry of the Elements: The Inorganic Chemistry of Life by J. J. R. Fraústo da Silva and R. J. P. Williams (Paperback - Nov. 1, 2001)  
ISBN-13: 978-0198508489  
世界各地拥有馆藏的图书馆（OCLC）:364  
3 Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life by Wolfgang Kaim and Brigitte Schwederski (Paperback - Nov. 15, 1994)  
ISBN-13: 978-0471943693  
4 Biological Inorganic Chemistry: An Introduction by Robert Crichton (Paperback - Jan. 1, 2008)  
ISBN-13: 978-0444527400  
世界各地拥有馆藏的图书馆（OCLC）:190  
5 Advances in Inorganic Chemistry, Volume 54: Inorganic Reaction Mechanisms by Colin D. Hubbard and Rudi van Eldik (Hardcover - July 22, 2003)  
ISBN-13: 978-0120236541  
世界各地拥有馆藏的图书馆（OCLC）:15  
6 Iron-Sulfur Proteins, Volume 47 (Advances in Inorganic Chemistry) by Richard Cammack (Hardcover - June 11, 1999)  
ISBN-13: 978-0120236473  
7 Cumulative Subject and Author Indexes, and Tables of Contents for Volumes1-47, Volume 48 (Advances in Inorganic Chemistry) by AG Sykes (Hardcover - Nov. 26, 1999)  
ISBN-13: 978-0120236480  
8 Gold Chemistry: Applications and Future Directions in the Life Sciences by Fabian Mohr and Hubert Schmidbaur (Hardcover - May 26, 2009)  
ISBN-13: 978-3527320868  
世界各地拥有馆藏的图书馆（OCLC）:90  
9 Bioinorganic Chemistry: A Short Course by Rosette M. Roat-Malone (Paperback - Oct. 5, 2007)  
ISBN-13: 978-0471761136  
世界各地拥有馆藏的图书馆（OCLC）:335  
10 ADVANCES IN INORGANIC CHEMISTRY VOL 30, Volume 30 by Author Unknown (Hardcover - Jan. 11, 1987)  
ISBN-13: 978-0120236305  
11 Chemistry³: Introducing Inorganic, Organic and Physical Chemistry by Andy Burrows, Andy Parsons, Gareth Price, and Gwen Pilling (Paperback - May 29, 2009)  
ISBN-13: 978-0199277896  
世界各地拥有馆藏的图书馆（OCLC）:98  
12 Metal-Carbon Bonds in Enzymes and Cofactors (Metal Ions in Life Sciences) by Astrid Sigel, Helmut Sigel, and Roland K. O. Sigel (Hardcover - Mar. 9, 2009)  
ISBN-13: 978-1847559159  
世界各地拥有馆藏的图书馆（OCLC）:66