配位化学(全英文)教学日历

(2017-2018 第1学期)

课程代码: 1900016, 学分: 3, 周学时: 6.0

教学班组成: 2017 级研究生(硕士生、博士生、留学生) 主讲教师: 李晖

课	周次	授课形式			基格				
次		理论课	课堂讨论	实践教学	- 教学内容 - 教学内容				
1	4	√	√		Chapter 1 Introduction 1.1 An Introduction To Coordination Chemistry 1.2 The Key Features of Coordination Complex 1.3 Nomenclature of Coordination Complex				
2	4	✓	√		Chapter 1 Introduction 1.4 Isomerism of Coordination Complex 1.5 Supramolecular Chemistry 1.6 Bio-coordination Chemistry 1.7 Nanochemistry and Coordination Chemistry				
3	5	√	√		Chapter 2 The Bonding Theories of Coordination Complex 2.1 Symmetry in Chemistry – Group Theory 2.2 Valence Bond Theory and Hybrid Atomic Orbital				
4	5	√	√		Chapter 2 The Bonding Theories of Coordination Complex 2.3 Crystal Field Theory 2.4 Molecular Orbital Theory 2.5 Intermolecular Interaction 2.6 Self-assembly Process 2.7 Construction of Functional Device				
5	6	√	√		国庆假期				
6	6	√	√		国庆假期				
7	7	√	√		Chapter 3 Spectroscopy of Coordination Complex 3.1 Ultraviolet and Visible Absorption Spectroscopy (UV-Vis) 3.2 Infrared Spectroscopy 3.4 Photoelectron Spectroscopy 3.5 Nuclear Magnetic Resonance (NMR) Spectroscopy				

					3.6 Electronic Paramagnetic Resonance (EPR) 3.7 Circular Dichroism (CD)					
8	7	√		√	Chapter 3 Spectroscopy of Coordination Complex 3.3 X-ray Powder and Single Crystal Diffraction Analysis, The practices in the					
9	8	√	1		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.1 The Structures of Several Kinds of Coordination Complexes					
10	8	√	1		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.2 Metal-Organic Framework (MOF)					
11	9	√	√		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.3 Bio-mimic Coordination Complex 4.4 Thermodynamic Properties and Balances of Coordination Complex in Solution					
12	9	√	√		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.5 Magnetic Properties of Coordination Complex					
13	10	1	√		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.6 Photochemical Properties of Coordination Complex					
14	10	1	√		Chapter 4 The Structure and Physicochemical Properties of Coordination Complex 4.7 Mlecular Electronic Devices — Redox -active Coordination Complex 4.8 Solar-energy Conversion and Energy Coordination Complex					
15	11	√	√		Chapter 5 Kinetics and Mechanisms of Reactions of Coordination Complex 5.1 Introductory Survey 5.2 Reaction Mechanisms of Coordination and Organometallic Complex 5.3 Substitution Reactions of Coordination Complex					
16	11	1	√		Chapter 5 Kinetics and Mechanisms of Reactions of Coordination Complex 5.4 Electron Transfer Reactions of Coordination Complex					

		5.5 Homogeneous catalysis					
		5.6	The	Experimental	and	Theoretical	
		Methods	for Stu	dying Mechanisı	ms		