科目ナンバリング U-LAS13 20004 LE60											
授業科目名 Introduction to Inorganic Chemistry A-E2 本						Tong Zhu					
群	自然科:	学科目群	<u> </u>	分野(分類)	化学(発展)				使	用言語	英語
旧群	B群	単位数	2単位	週コマ数	1コマ		授業	形態 誰	義 (対面授業	業科目)
開講年度・ 開講期	2025 •	前期	曜時限火	(3		配当	当学年	主として1・	2回生	対象学:	生理系向

[授業の概要・目的]

These lectures will introduce students to the fundamentals of inorganic chemistry. Atoms, molecules and solids surround us and this lecture will aim at providing students with the tools to better understand their structures, energetics and properties. This course is designed for both Japanese and International students.

[到達目標]

- (1) To understand the basic structure of atoms as a function of their position in the periodic table. (2)To be able to draw simple molecular structures and orbital diagrams to understand their properties and reactivity.
- (3) To be able to visualize and comprehend the basic crystal structures of solids and their related stability and properties.

[授業計画と内容]

The course will cover the following topics, and each of them is read in 1 or 2 weeks

- (1) The structure of hydrogen
- (2) The structure of many-electron atoms
- (3) Lewis structures
- (4) Valence bond theory
- (5) Molecular orbital theory
- (6) Bond properties
- (7) The structure of solids and packing of spheres
- (8) The structure of metals, alloys and intermetallic compounds
- (9) Ionic bonding and ionic solids
- (10) Electronic structures and properties of inorganic solids

Total 14 classes and 1 Feedback

[履修要件]

特になし

[成績評価の方法・観点]

Evaluation will be based on attendance and participation (10%), reports (90%).

[教科書]

Weller, Overton, Rourke, Armstrong Inorganic Chemistry (Oxford University Press) ISBN:978-0-19-964182-6

Introduction to Inorganic Chemistry A-E2(2)へ続く

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発業中に紹介する	
Vill be announced during the lecture	
(関連URL)	
Will be announced during the lecture)	
授業外学修(予習・復習)等]	
cudents are required to do their homeworks and when trouble is encounsult the various recommended textbooks or please ask me.	ountered during homework, please
その他(オフィスアワー等)]	
ffice hour: Anytime by email and appointments should be made via	email.
主要授業科目(学部・学科名)]	
学部	