

105 學年第 2 學期 化學動力學 Chemical Kinetics and Dynamics 課程綱要

課程名稱：(中文) 化學動力學		開課單位	分子碩			
(英文) Chemical Kinetics and Dynamics		永久課號	IAC6549			
授課教師：曾建銘						
學分數	3	必/選修	選修	開課年級	*	
先修科目或先備能力：						
<p>物理化學(一)                  物理化學(二)                  微積分                  應用數學</p>						
課程概述與目標：						
<p>Physical Chemistry seeks to explain chemical processes with energetically evolution and molecular nature of matter, which are the main contents in Physical Chemistry I (Thermodynamics) and Physical Chemistry II (Quantum chemistry), respectively. Thermodynamics can calculate an equilibrium constant, but can not predict the rate to approach equilibrium. Quantum chemistry can compute the energy levels, but it does not provide a simple reason why some energy levels are preferentially populated during reactions. The understanding of reaction rate and mechanism will be treated in Physical Chemistry III. This course aims to provide the basic principles of chemical kinetics and reaction dynamics in graduate level.</p> <p>The updated studies in chemical dynamics will be covered including the use of synchrotron radiation and ultrashort laser. Laboratory tours to visit the advanced light sources and machines will be scheduled.</p>						
教科書 (請註明書名、作者、出版社、出版年等資訊)						
課程大綱			分配時數			備註
單元主題	內容綱要	講授	示範	習作	其他	
教學要點概述：						
1. 學期作業、考試、評量 quiz 10%, midterm 30%, final 30%, homework 30%						
2. 教學方法及教學相關配合事項(如助教、網站或圖書及資料庫等)						
師生晤談	排定時間	地點	連絡方式			

每週進度表			
週次	上課日期	課程進度、內容、主題	

※ 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

備註：

1. 其他欄包含參訪、專題演講等活動。
2. 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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