2022 Spring

	TIGP Sustainable Chemical Science and Technology Program		
	Introduction to Sustainable Chemical Science and Technology	1	
	Period:	2022/Feb 2022/June	
	Classroom:	B105, IoC, AS	
	Time:	AM9:10-12:00	
	1. Know the backgrounds and chemistry of sustainability-related issues.		
Goals:	2. Learn the spirit of green chemistry and the challenges/opportunities in the real world.		
	3. Get exposed to important research directions.		
Thomas			+
Theme 4	Energy Related Technologies		+
4	4.1 Applied electrochemistry for energy related technologies (including electrode kinetics)	Ho, Kuo-Chuan	2022/2/16
		,	
	4.2 Solar and thermoelectric energy conversion	Chen, Kuei-Hsien	2022/2/23
	4.3 Energy Storage (Lithium ion battery, Flow battery) and Energy Saving Technologies		
	(Photochromic, Electrochromic, Thermochromic)	Yen, Hung-Ju	2022/3/2
5	Greener Materials		
	5.1 Chemicals from Different Feedstocks		
	5.1.2 CO ₂ and Natural Gas	Yu, Steve Sheng-Fa	2022/3/9
	5.1.2 Biomass	Chung, Cedric Po-Wen	2022/3/16
	5.2 Degradable Polymers	Yu, Jia-Shing	2022/3/23
	5.3 From Waste to Wealth (CO ₂ ; E-waste; food waste; plastic waste)	Yu, Steve Sheng-Fa	2022/3/30
	*** Mid-Term Exam Week***	No Class	2022/4/6
	6.2 Peptide and probe chemistry in Diseases	Huang, Joseph Jen-Tse	2022/4/13
	5.5 Green Hydrogen from Sunlight	Wu, Chi-Sheng	2022/4/20
	5.6 Modern theoretical computation applied to energy science	Wu, David Tai-Wei	2022/4/27
6	Sustainable Health - Tackle Disease by Chemistry		
	6.1 Disease Detection and Diagnosis	Chen, Yu-Ju	2022/5/4
	5.4 Bio-Synthesis	Wang, Cheng-Chung	2022/5/11
	6.3 Drug Development	Li, Wen-Shan	2022/5/25
	6.4 Emergent nanomedicine & diagnostic platforms	Tu, Hsiung-Lin	2022/5/18
7	Information Sharing	Hung, Chen-Hsiung	2022/6/1