Kuan Ying Tseng

Department of Material Science and Engineering,

National Chiao Tung University, Room 752, Engineering Building Six.

□ljoetseng@gmail.com | □ (+886) 903064326.

EDUCATION

Sep. 2014 - present B.S. of Material Science and Engineering

National Chiao Tung University, Hsinchu, Taiwan.

Sep. 2013- Aug. 2014 B.S. of Civil and Engineering

National Chiao Tung University, Hsinchu, Taiwan.

Sep. 2010 - Aug. 2013 Third Education Program

Taichung Second Senior High School, Taichung, Taiwan

UNDERGRADUATE RESEARCH PROJECT

July. 2017 - Present Mechanical Behavior Study of Additive Manufacturing Ti6Al4V Implants

using In-Situ Synchrotron Transmission X-ray Microscopy and Self-

Consistent Modeling

EXTRACURRICULAR EXPERIENCES

July. 2015 General Convener, the Association of National Chiao Tung University

(NCTU) Civil Camp

Aug. 2016 - Aug. 2017 English tutoring for a junior high school student

Sep. 2016 - June.2017 Captain of the department basketball team

CONFERENCES

[1] <u>Kuan-Ying Tseng (曾冠穎)</u>, E-wen Huang (黃爾文), Chun-Chieh Wang (王俊杰), Pei-Yi Tsai (蔡佩宜), and Shin-Yi Huang (黃馨怡), "Multi-scale Mapping By Fluorescence Microscopy & X-ray Diffraction for Biological Apatite Examination", 2017 Taiwan Neutron Science Society Annual Meeting, National Chiao Tung University, Hsinchu, Sep. 2~4, 2017

[2] <u>Kuan-Ying Tseng (曾冠穎)</u>, E-wen Huang (黃爾文), Chun-Chieh Wang (王俊杰), Pei-Yi Tsai (蔡佩宜), and Shin-Yi Huang (黃馨怡), "Multi-scale Mapping By Fluorescence Microscopy & X-ray Diffraction for Biological Apatite Examination", Materials Chemistry, NSRRC - 23rd Users' Meeting & Workshops, National Synchrotron Radiation Research Center, Hsinchu, Sep. 5~8, 2017

AWARDS and HONORS

- College Student Research Scholarship, National Science Council Research Scholarship, TW
- First prize of 2017 Material Innovation Award

EXPERIMENTAL EXPERIENCES (INSTRUMENTS)

▶ Undergraduate Research Project

 Measuring P(VDF-TrFE) Films by Coupling In-situ Tensile Testing with X-ray Diffraction

Instruments: Tensile Testing Machine, Superconducting Wavelength Shifter (SWLS) – X-ray Powder Diffraction 01C2 Beamline, National Synchrotron Radiation Research Center (NSRRC)

Residual Strain Examination of Hydroxyapatite

Instrument: Superconducting Wavelength Shifter (SWLS) - X-ray Powder Diffraction 01C2 Beamline, National Synchrotron Radiation Research Center (NSRRC)

Using TXM Images to Replace Traditional Methods of Detecting Bones
 Instrument: Superconducting Wavelength Shifter (SWLS) – X-ray Microscopy 01B1
 Beamline, National Synchrotron Radiation Research Center (NSRRC)

► Undergraduate Laboratory Training Courses

Observation on Polymerization of Poly(Methyl Methacrylate) (PMMA)
 Instruments: Fourier Transform Infrared Spectroscopy (FTIR), Differential Scanning Calorimetry (DSC)

 Density Investigation of Lead Zirconate Titanate (PZT) Sintered at Different Temperature

Instruments: Isostatic Pressing Machine, Ball Milling Machine

- Micro-structure and Mechanical Properties Investigation of Different Metals
 Instruments: Cold Rolling Machine, Optical Microscope, Grinding & Polishing Machine
- P-N Diode Fabrication and Electrical Properties Measurement
 Instruments: Spin coater, Photoresist Developing Machine

PROFESSIONAL COMPUTER SKILLS

> Crystallography Diffraction Profile	❖ General Structure Analysis System (GSAS)
Analysis	❖ PowederCell
	❖ GSAS II
➤ Graphing & Statistics	❖ OriginPro 8
> Image Analysis	❖ Image J
➤ Microsoft Office Suite	 Microsoft Word, Excel, PowerPoint
> Reference Citation	❖ Endnote X7