中臺科技大學教師個人資料表

(一)基本資料

姓　　名	許學全	所屬系所	牙體技術暨材料系
E - M A I L	hchsu@ctust.edu.tw		

(二)主要學歷 請填學士級以上之學歷或其他最高學歷均可，若仍在學者，請在學位欄填「肄業」。

畢／肄業學校	國別	主修學門系所	學位	起訖年月(西元年/月)
中央大學	中華民國	化學工程系	學士	1984/09 至 1988/06
成功大學	中華民國	材料科學及工程學系	碩士	1989/09 至 1991/06
中興大學	中華民國	材料科學與工程學系	博士	1996/09 至 2000/09

(三)現職及與專長相關之經歷 與研究相關之專任職務，請依任職時間先後順序由最近往前追溯。

服務機關	服務部門／系所	職稱	起訖年月(西元年/月)
現職：中臺科技大學	牙體技術暨材料系	系主任	2023 /8 迄今
		教授	2009 /___至 迄今
			_____/___至_____/___
			_____/___至_____/___
			_____/___至_____/___

(四)專長 請自行填寫與研究方向有關之學門名稱。

1. 材料分析	2. 金屬材料	3. 牙科材料	4.

Representative Publication in 10 Years：

Journal Articles：

1. Kuan-Hsiang Hsieh, **Hsueh-Chuan Hsu**, Shih-Ching Wu, Yi-Cheng Shih, Hsiang-Wei Yang, Wen-Fu Ho* (2023, Apr). Effect of hydrothermal and vapor thermal treatments on apatite inductivity of titanate nanotubes on anodized Ti－5Nb－5Mo surface. Nanomaterials, 13,
2. **Hsueh-Chuan Hsu**, Ka-Kin Wong, Shih-Ching Wu, Po-Jen Hou, Wen-Fu Ho* (2023, Feb). Effects of heat treatment through muffle furnace or microwave on microstructure and corrosion behavior of 316L stainless steel produced by selective laser melting. MRS COMMUNICATIONS, 13,
3. **Hsueh-Chuan Hsu**, Shih-Ching Wu, Chien-Yu Lin, Wen-Fu Ho* (2023 Jan). Characterization of hydroxyapatite/chitosan composite coating obtained from crab shells on low-modulus Ti－25Nb－8Sn alloy through hydrothermal treatment. Coatings, 13,
4. Shih-Ching Wu, **Hsueh-Chuan Hsu**, Hui-Chun Yu, Chih-En Shen, Wen-Fu Ho* (2023 Jan). Preparation and evaluation of osteoinductive porous biphasic calcium phosphate granules obtained from eggshell for bone tissue engineering. ADVANCED POWDER TECHNOLOGY, 34,
5. (2023, Jul). Synthesis and Characterization of Nano-Hydroxyapatite Obtained from Eggshell via the Hydrothermal Process and the Precipitation Method. MOLECULES, 28,
6. Ka-Kin Wong, **Hsueh-Chuan Hsu**, Shih-Ching Wu, Tun-Li Hung and Wen-Fu Ho (2022, Nov). Structure, Properties, and Corrosion Behavior of Ti-Rich TiZrNbTa Medium-Entropy Alloys with beta plus alpha" plus alpha' for Biomedical Application. MATERIALS, 15(22), 7953.
7. AShih-Ching Wu, **Hsueh-Chuan Hsu**, Bao-Teng Kuo, Wen-Fu Ho (2022, Nov). Effects of cooling conditions and chitosan coating on the properties of porous calcium phosphate granules produced from hard clam shells. ADVANCED POWDER TECHNOLOGY, 33(11), 103774.
3. **Hsueh-Chuan Hsu**, Ka-Kin Wong, Shih-Ching Wu, Po-Jen Hou & Wen-Fu Ho (2022, Aug). Microstructure and properties of 316L stainless steel by selective laser melting under various process parameters. MRS Communications, 12, 768－772.
4. **Hsueh-Chuan Hsu**, Yi-Chang Chung, Shih-Ching Wu, Yi-Chen Ho, Hsiao-Han Chang, Wen-Fu Ho (2022, May). Preparation of chitosan/hydroxyapatite composite coating obtained from crab shells on hierarchical micro/nano-textured Ti surface. Surface and Coatings Technology, 437, 128364.
5. **Hsueh-Chuan Hsu**, Ka-Kin Wong, Shih-Ching Wu, Yi-Xiang Chen, Wen-Fu Ho (2022, Mar). Metastable dual-phase Ti－Nb－Sn－Zr and Ti－Nb－Sn－Fe alloys with high strength-to-modulus ratio. Materials Today Communications, 30, 103168.
6. Ka-Kin Wong, **Hsueh-Chuan Hsu**, Shih-Ching Wu & Wen-Fu Ho (2022, Mar). Novel Metastable Nonequiatomic Ti-Zr-Nb-Mo Medium-Entropy Alloys with High Yield-Strength-to-Elastic-Modulus Ratios. Metals and Materials International, 28, 2563－2570.
7. **Hsueh-Chuan Hsu**, Ka-Kin Wong, Shih-Ching Wu, Yu-Chi Lin & Wen-Fu Ho (2022, Jan). High-strength and low-modulus Ti－13Nb－7Sn－4Mo with $\beta + \alpha'' + \alpha$ structure fabricated by cold rolling and aging treatment. MRS Communications, 12, 130－135 (2022).
8. **H.-C. Hsu**, K.-K. Wong, J.-S. Chen, S.-C. Wu, W.-F. Ho (2021, Oct). Effect of thermomechanical treatment on structure and properties of metastable Ti-25Nb8Sn alloy. Kovove materialy - Metallic Materials, 59, 357－366.
9. **Hsueh-Chuan Hsu**, Ka-Kin Wong, Shih-Ching Wu, Chao-Yong Jheng & Wen-Fu Ho (2021,

Sep). Structure and properties of metastable Ti－Nb－Sn－Mo alloys. MRS Communications, 11(5), 669-674.

10. Shih-Ching Wu, Yu-Lin Kao, Yi-Cheng Lu, **Hsueh-Chuan Hsu** & Wen-Fu Ho (2021, Sep). Preparation and characterization of microrod hydroxyapatite bundles obtained from oyster shells through microwave irradiation. Journal of the Australian Ceramic Society, 57(5), 1541－1551.
11. Wen-Fu Ho, Hsi-Kai Tsou, Shih-Ching Wu, Wen-Yu Hsiao, **Hsueh-Chuan Hsu*** (2021, Sep). Characteristics and structure of porous TNM alloy for biomedical applications. Results in Materials , 11, 1-10. 本人為通訊作者.
12. Wen-Fu Ho, Mei-Hwa Lee, James L. Thomas, Jin-An Li, Shih-Ching Wu, **Hsueh-Chuan Hsu** and Hung-Yin Lin (2021, Sep). Porous Biphasic Calcium Phosphate Granules from Oyster Shell Promote the Differentiation of Induced Pluripotent Stem Cells. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(17), 1-12.
13. Ka-Kin Wong, **Hsueh-Chuan Hsu**, Shih-Ching Wu, Wen-Fu Ho (2021, Jul). Structure and properties of Ti-rich Ti-Zr-Nb-Mo medium-entropy alloys. JOURNAL OF ALLOYS AND COMPOUNDS, 868, 1-7.
14. **Hsueh-Chuan Hsu**, Shih-Ching Wu, Yang-Jhe Su, Wen-Fu Ho (2021, Mar). Effects of thermal treatments on the microstructures and mechanical properties of Ti－5Nb－5Mo alloys. MATERIALS TODAY COMMUNICATIONS, 26, 1-8.
15. **Hsueh-Chuan Hsu**, Shih-Ching Wu, Jhen-Hao Kuo & Wen-Fu Ho (2021, Feb). Effects of Heat Treatments on the Structure and Mechanical Properties of Ti25Nb-8Sn Alloy. Journal of Materials Engineering and Performance, 30(3), 2309-2315.
16. Shih-Ching Wu, **Hsueh-Chuan Hsu**, Mei-Yi Liu & Wen-Fu Ho (2021, Jan). Characterization of nanosized hydroxyapatite prepared by an aqueous precipitation method using eggshells and mulberry leaf extract. Journal of the Korean Ceramic Society, 58(1),116-122.
17. **Hsueh-Chuan Hsu**, Shih-Kuang Hsu, Shih-Ching Wu, Yung-Hao Hung, Wen-Fu Ho (2020, Sep). Surface modification of nanotubular anodized Ti－7.5Mo alloy using NaOH treatment for biomedical application. Thin Solid Films, 710, 138273.
18. Hsing-Ning Yu, **Hsueh-Chuan Hsu**, Shih-Ching Wu, Cheng-Wei Hsu, ShihKuang Hsu and Wen-Fu Ho (2020, Jan). Characterization of Nano-Scale Hydroxyapatite Coating Synthesized from Eggshells Through Hydrothermal Reaction on Commercially Pure Titanium. Coatings, 10, 1-11.
19. **Hsueh-Chuan Hsu**, Shih-Ching Wu, Shih-Kuang Hsu, Cheng-Wei Hsu, Wen-Fu Ho (2019, Oct). Bone-like nano-hydroxyapatite coating on low-modulus Ti－5Nb－5Mo alloy using hydrothermal and post-heat treatments. Thin Solid Films, 687, 137463.
20. Shih-Ching Wu, **Hsueh-Chuan Hsu**, Shih-Kuang Hsu, Mei-Yi Liu and Wen-Fu Ho (2019, Mar). Hydroxyapatite prepared from eggshell and mulberry leaf extract by precipitation method. Biomaterials and Biomedical Engineering, 4(1), 21-32.
21. **Hsueh-Chuan Hsu**, Shih-Kuang Hsu, Shih-Ching Wu, Wen-Fu Ho (2019, Jan). Formation of nanotubular structure on low-modulus Ti－7.5Mo alloy surface and its bioactivity evaluation. Thin Solid Films, 669, 329-337.
22. Shih-Ching Wu, **Hsueh-Chuan Hsu**, Shih-Kuang Hsu, Chien-Pei Tseng, Wen-Fu Ho (2019, Jan). Effects of calcination on synthesis of hydroxyapatite derived from oyster shell powders. Journal of the Australian Ceramic Society, 55(1), 1051-1058.
23. **Hsueh-Chuan Hsu**, Shih-Ching Wu, Shih-Kuang Hsu, Yi-Hang Liao, Wen-Fu Ho (2017, Aug). Effect of different post-treatments on the bioactivity of alkalitreated Ti－5Si alloy. Bio-Medical

Materials and Engineering, 28(5):503-514.
24. Hsing-Ning Yu, **Hsueh-Chuan Hsu**, Shih-Ching Wu, Shih-Kuang Hsu, Wen-Fu Ho (2017, May). Structure and Mechanical Properties of As-Cast Ti-5Sn-xMo Alloys. Materials, 10(5), 458.
25. Shih-Ching Wu, **Hsueh-Chuan Hsu**, Shih-Kuang Hsu, Chien-Pei Tseng, Wen-Fu Ho (2017, Apr). Preparation and characterization of hydroxyapatite synthesized from oyster shell powders. Advanced Powder Technology, 28(4), 1154-1158

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