

**Name :** Shih-Kuang Hsu

**Education :**

Ph. D., Institute of molecular biology, National Chung-Hsing University

M. D., Institute of molecular biology, National Chung-Hsing University

B. D., Department of Botany, National Chung-Hsing University

**Career Experience :**

associate professor, Department of Dental Technology and Materials Science, Central Taiwan University of Science and Technology

associate professor, Department of Dental Laboratory Technology, Central Taiwan University of Science and Technology

Lecturer, Department of Dental Laboratory Technology, Central Taiwan University of Science and Technology

**Courses Taught :**

Biology

Cellular Biology

Removable Partial Prosthodontics

Experiment of Removable Partial Prosthodontics

**Professional Fields :**

Molecular Biology

Protein Engineering

Removable prosthodontics

**Research Interests :**

- Protein engineering
- Biomimetic surface modification
- Bone tissue engineering

**Representative Publication in 5 Years :**

**Journal Articles :**

**2016**

1. [Shih-Kuang Hsu](#), Wen-Fu Ho, Shih-ChingWu, Yun-Shan Chen, Hsueh-Chuan Hsu (2016) In vitro study of Ti-Nb-Sn alloy surface modified with RGD peptide. Thin Solid Films (SCI)
2. [Shih-Kuang Hsu](#), Jumei Tian, Wen-Fu Ho, Hsueh-Chuan Hsu, Huei-Jyuan Liao, Yung-Fu Chen, Shih-Ching Wu (2016) Enhancing the bioactivity of yttria-stabilized zirconia immobilized with adhesive peptide using L-dopa as cross-linker. Thin Solid Films (SCI)
3. Hsueh-Chuan Hsu, Shih-ChingWu, [Shih-Kuang Hsu](#), Yi-Hang Liao, Wen-Fu Ho (2016) Bioactivity of hybrid micro/nano-textured Ti-5Si surface by acid etching and heat treatment. Materials and Design 104: 205-210 (SCI)
4. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Chih-Cheng Hsu, Wen-Fu Ho (2016)

Evaluation of the Machinability of Cast Ti-Si Alloys with Varying Si Content. Journal of Materials Engineering and Performance 25:1986-1992 (SCI)

5. Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Ya-Chu Chang, Wen-Fu Ho (2016) Synthesis of hydroxyapatite from eggshell powders through ball milling and heat treatment. Journal of Asian Ceramic Societies 4(1): 85-90 (SCI)

## 2015

1. [Shih-Kuang Hsu](#), Pai-Ling Chang, Wen-Fu Ho, Hsueh-Chuan Hsu, Huei-Jyuan Liao, Shih-Ching Wu\*, Osteogenesis ability of biomimetic modified 3Y-TZP ceramic using chemical treatment. Thin Solid Films 596: 118-127 (SCI)
2. Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Ya-Chu Chang, Wen-Fu Ho\*, Effects of heat treatment on the synthesis of hydroxyapatite from eggshell powders. Ceramics International 41:10718-10724, 2015. (Nov) (SCI)
3. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Feng-Wei Lin, Wen-Fu Ho\*, Fabrication and characterization of novel porous titanium microspheres for biomedical applications. Materials Characterization 10:317-323, 2015. (Aug) (SCI)
4. Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Feng-Wei Lin, Wen-Fu Ho\*, Preparation and characterization of porous calcium-phosphate microspheres. Ceramics International 41:7596-7604, 2015. (Jul) (SCI)
5. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Yu-Chen Chang, Wen-Fu Ho\*, Fabrication of nanotube arrays on commercially pure titanium and their apatite-forming ability in a simulated body fluid. Materials Characterization 100:170-177, 2015. (Feb) (SCI)
6. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Kuan-Huang Hsu, Wen-Fu Ho\*, Machinability evaluation of Ti-5Nb-xFe alloys for dental applications. Journal of Materials Engineering and Performance 24(3):1332-1339, 2015. (Mar) (SCI)
7. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Chien-Ting Li, Wen-Fu Ho\*, Effects of chromium addition on structure and mechanical properties of Ti-5Mo alloy. Materials and Design 65:700-706, 2015. (Jan) (SCI)

## 2014

8. [Shih-Kuang Hsu](#), Hsueh-Chuan Hsu, Wen-Fu Ho, Chun-Hsu Yao, Pai-Ling Chang, Shih-Ching Wu, Biomolecular modification of zirconia surfaces for enhanced biocompatibility. Thin Solid Films 572(1) December: 91-98, 2014. (SCI, EI)
9. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Chien-Yu Chen, Wen-Fu Ho\*, Structure and mechanical properties of as-cast Ti-5Sn-xCr alloys. Materials Science and Engineering: A 606:157-164, 2014. (Jun) (SCI, EI)

10. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Yu-Chi Li, Wen-Fu Ho\*, Structure and mechanical properties of as-cast Ti-Si alloys. *Intermetallics* 47:11-16, 2014. (Apr) (SCI, EI); (NSC101-2221-E-212-004)
11. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Tien-Yu Chang, Wen-Fu Ho\*, Effect of ball milling on properties of porous Ti-7.5Mo alloy for biomedical applications. *Journal of Alloys and Compounds* 582:793-801, 2014. (Jan) (SCI, EI)

### **2013**

12. Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Shih-Ching Wu, Peng-Hsiang Wang, Wen-Fu Ho\*, Design and characterization of highly porous titanium foams with bioactive surface sintering in air. *Journal of Alloys and Compounds* 575:326-332, 2013. (Oct) (SCI, EI)
13. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Tsung-Fu Lin, Wen-Fu Ho\*, Structure and mechanical properties of as-cast Ti-5Nb-xCr alloys. *Materials and Design* 51:268-273, 2013. (Oct) (SCI, EI)
14. Shih-Ching Wu, Hsi-Kai Tsou, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Shu-Ping Liou, Wen-Fu Ho\*, A hydrothermal synthesis of eggshell and fruit waste extract to produce nanosized hydroxyapatite. *Ceramics International* 39:8183-8188, 2013. (Sep) (SCI, EI)
15. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Wei-Hao Kao, Wen-Fu Ho\*, Structure and mechanical properties of as-cast Ti-5Nb-based alloy with Mo addition. *Materials Science and Engineering: A* 579:86-91, 2013. (Sep) (SCI, EI)
16. Wen-Fu Ho, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Chun-Wei Hung, Shih-Ching Wu, Calcium phosphate bioceramics synthesized from eggshell powders through a solid state reaction. *Ceramics International* 39:6467-6473, 2013. (Aug) (SCI, EI)
17. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Shao-Hsuan Chuang, Wen-Fu Ho\*, Surface modification of commercially pure Ti treated with aqueous NaOH treatment and ethyl alcohol aging. *Journal of Medical and Biological Engineering* 33(3):331-336, 2013. (Jun) (SCI, EI)
18. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Ming-Shiun Tsai, Tien-Yu Chang, Wen-Fu Ho\*, Processing and mechanical properties of porous Ti-7.5Mo alloy. *Materials and Design* 47:21-26, 2013 (May) (SCI, EI)
19. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Jhen-Yi Syu, Wen-Fu Ho\*, The structure and mechanical properties of as-cast Ti-25Nb-xSn alloys for biomedical applications. *Materials Science and Engineering: A* 568 (15):1-7, 2013 (Apr). (SCI, EI) (National Space Center in Taiwan, Grant No. 98-NSPO(A)-GE-FD11-01)
20. Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Hsi-Kai Tsou, Shih-Ching Wu, Tsung-Hsuan Lai, Wen-Fu

Ho\*, Fabrication and characterization of porous Ti-7.5Mo alloy scaffolds for biomedical applications. *Journal of Materials Science: Materials in Medicine* 24:645-657, 2013 (Mar) (SCI, EI)

21. Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), Lih-Sheng Fang, Hsueh-Chuan Hsu\*, Bond strength of Ti-5Cr based alloys to dental porcelain with Mo addition. *Materials and Design* 43:233-236, 2013 (Jan) (SCI, EI) (NSC98-2622-E-166-001-CC3)

## 2012

22. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Yu-Chi Li, Wen-Fu Ho\*, Effects of molybdenum content on the structure and mechanical properties of as-cast Ti-10Zr-based alloys for biomedical applications. *Materials Science and Engineering C: Materials for Biological Applications* 32(3):517-522, 2012. (Apr) (SCI, EI)

## 2011

23. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Chao-Lun Fu, Wen-Fu Ho\*, Biomimetic hydroxyapatite coating on c.p. Ti and Ti-6Al-4V alloy by acid and alkali treatment. *Environmental Engineering and Management Journal* 10(11):1617-1623, 2011. (Nov) (SCI, EI) (NSC 97-2815-C-212-014-E)

24. Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Wei-Hsin Wang, Wen-Fu Ho\*, Preparation and characterization of four different compositions of calcium phosphate scaffolds for bone tissue engineering. *Materials Characterization* 62(5):526-534, 2011. (May) (SCI, EI)

25. Wen-Fu Ho, Shih-Ching Wu, Cheng-Wei Lin, [Shih-Kuang Hsu](#), Hsueh-Chuan Hsu\*, Electrochemical behavior of Ti-20Cr-X alloys in artificial saliva containing fluoride. *Journal of Applied Electrochemistry* 41(3):337-343, 2011. (Mar) (SCI, EI)

26. Hsueh-Chuan Hsu, Hsi-Kai Tsou, [Shih-Kuang Hsu](#), Shih-Ching Wu, Chien-Hung Lai, Wen-Fu Ho\*, Effect of water aging on the apatite formation of a low-modulus Ti-7.5Mo alloy treated with aqueous NaOH. *Journal of Materials Science* 46(5):1369-1379, 2011. (Mar) (SCI, EI)

27. Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Yu-Chih Sung, Wen-Fu Ho\*, Effects of heat treatments on the structure and mechanical properties of Zr-30Ti alloys. *Materials Characterization* 62(2):157-163, 2011. (Feb) (SCI, EI)

28. [Shih-Kuang Hsu](#), Wen-Tao Huang, Bai-Shuan Liu, Shih-Miao Li, Hsien-Te Cheng, and Chen-Jung Chang, Effects of near-field ultrasound stimulation on new bone formation and osseointegration of dental titanium implants in-vitro and in-vivo. *Ultrasound in Medicine and Biology*. 2011; 37(3): p.403-416. (SCI)

1. Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Ya-Chu Chang, Wen-Fu Ho\*, Synthesis

of hydroxyapatite from eggshell powders through ball milling and heat treatment. Journal of Asian Ceramic Societies

2. Wen-Fu Ho, Hsi-Kai Tsou, Shih-Ching Wu, [Shih-Kuang Hsu](#), Shao-Hsuan Chuang, Hsueh-Chuan Hsu\*, Effect of ethyl alcohol aging on the apatite formation of a low-modulus Ti-7.5Mo alloy treated with aqueous NaOH. Biomaterials and Biomedical Engineering 1(1):51-62, 2014. (Mar)
3. Wen-Fu Ho\*, Shu-Ping Liou, Shih-Ching Wu, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), Synthesis of nanohydroxyapatite using eggshell and plant peel extracts. Journal of Science and Engineering Technology 10(1):21-26, 2014. (Mar.)
4. Wen-Fu Ho\*, Yu-Ling Yeh, Ching-Wen Li, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Preparation of bioactive c.p. Ti surfaces using H<sub>2</sub>O<sub>2</sub> solution and hydrothermal treatment. Journal of Engineering, National Chung Hsing University 22(2) 77-86, 2011. (Aug.)

#### Conference Papers :

##### 2015

1. Wen-Fu Ho, Peng-Hsiang Wang, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Characteristics of calcium phosphate on the surface of porous titanium prepared by sponge replication method. The 66th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 3-4, 2015, Nihon University, Tokyo, Japan.
2. Hsueh-Chuan Hsu, Wen-Yu Hsiao, Wen-Fu Ho, [Shih-Kuang Hsu](#), Shih-Ching Wu, Bioactivity of porous Ti-Nb-Mo prepared by mechanical alloying process. The 66th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 3-4, 2015, Nihon University, Tokyo, Japan.
3. Wen-Fu Ho, Peng-Hsiang Wang, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Porous pure titanium prepared by sponge replication method and its bioactivity. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.
4. Wen-Fu Ho, Mei-Yi Liu, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Preparation and characteristics of nano-sized hydroxyapatite via aqueous precipitation method. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.
5. Hsueh-Chuan Hsu, Wen-Yu Hsiao, Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), A study on the porous structure and mechanical properties of a biomedical Ti-Nb-Mo alloy. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.
6. Hsueh-Chuan Hsu, Ching-Min Liang, Cheng-Feng Wang, Wen-Fu Ho, [Shih-Kuang Hsu](#),

Shih-Ching Wu, Hsi-Chen Lin, Corrosion resistance of ternary Ti-Nb-Mo alloys in Hank's solution. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.

7. Shih-Ching Wu, Ying-Ting Wu, Wen-Fu Ho, Hsueh-Chuan Hsu, [Shih-Kuang Hsu](#), A study of antibacterial peptides grafted onto nano-hydroxyapatite powders. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.
8. [Shih-Kuang Hsu](#), Meng-Han Tsai, Huei-Jyuan Liao, Hsi-Chen Lin, Shih-Ching Wu, Wen-Fu Ho, Hsueh-Chuan Hsu, In vitro and in vivo evaluation of porous bioglass/3Y-TZP bioceramic scaffolds. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.
9. [Shih-Kuang Hsu](#), Tzu-Peng Yeh, Hsueh-Chuan Hsu, Wen-Fu Ho, Shih-Ching Wu, Evaluation of biomimetic coprecipitation with calcium phosphate and RGD peptide on magnesium. The 65th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 11-12, 2015, Tohoku University, Sendai, Japan.

#### **2014**

10. Wen-Fu Ho, Hsueh-Chuan Hsu, Ming-Shiun Tsai, H. Kikuchi, T. Kurotani, Shih-Ching Wu, [Shih-Kuang Hsu](#), Formation of calcium phosphate on anodic titania nanotubes. The 64th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 4-5, 2014, Aster Plaza, Hirishima, Japan.
11. Hsueh-Fang Wang, Hsueh-Chuan Hsu, Yun-Shan Chen, Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), The improvement of biocompatibility of Ti-25Nb-8Sn alloy surface by coating with RGD peptide. The 64th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 4-5, 2014, Aster Plaza, Hirishima, Japan.
12. Wen-Fu Ho, Hsueh-Chuan Hsu, Ming-Shiun Tsai, H. Kikuchi, T. Kurotani, Shih-Ching Wu, [Shih-Kuang Hsu](#), Effects of processing parameters on characteristics of titania nanotube arrays on titanium. The 63th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan.
13. Wen-Fu Ho, Chih-Cheng Hsu, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Machinability of cast Ti-Si alloys. The 63th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan.
14. Shih-Ching Wu, Yi-Rong Li, Pai-Lin Chang, [Shih-Kuang Hsu](#), Hsueh-Chuan Hsu, Wen-Fu Ho, Effect of erbium oxide on coloration, mechanical strength, and ageing of yttria-stabilized zirconia. The 63th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan.
15. [Shih-Kuang Hsu](#), Huei-Jyuan Liao, Shih-Ching Wu, Wen-Fu Ho, Hsueh-Chuan Hsu, Evaluation of porous Y-TZP scaffold coated with bioglass. The 63th General Session of the Japanese

Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan. (國科會計畫經費補助)

16. Hsueh-Chuan Hsu, Yung-Chieh Chan, Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), Characteristics and microstructure of porous Ti-5Nb-5Mo alloy for biomedical applications. The 63th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan.
17. Hsueh-Chuan Hsu, Yin-Ting Ciou, Cheng-Feng Wang, [Shih-Kuang Hsu](#), Shih-Ching Wu, Wen-Fu Ho, Corrosion behavior and biocompatibility of Ti-10Zr-xMo alloys for biomedical application. The 63th General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 12-13, 2014, Tower Hall Funabori, Tokyo, Japan.

### **2013**

18. Wen-Fu Ho, Hsueh-Chuan Hsu, Hisaji Kikuchi, Tomoko Kurotani, Shih-Ching Wu, [Shih-Kuang Hsu](#), Microstructure and mechanical properties of Ti-Mo-Cr alloys. The 62nd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 19-20, 2013, Nippon Dental University, Niigata, Japan.
19. Hsueh-Chuan Hsu, Yi-Hsin Lin, Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), Bond strengths between Ti-25Nb-xSn alloys and low-fusing porcelain. The 62nd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 19-20, 2013, Nippon Dental University, Niigata, Japan.
20. Wen-Fu Ho, Hsueh-Chuan Hsu, Ming-Shiun Tsai, H. Kikuchi, T. Kurotani, Shih-Ching Wu, [Shih-Kuang Hsu](#), Formation of calcium phosphates on biomedical porous titanium alloys prepared by mechanical alloying and powder sintering. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.
21. Wen-Fu Ho, Shu-Ping Liou, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Hsueh-Fang Wang, Preparation and characteristics of bone-like apatite nanopowder. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.
22. Wen-Fu Ho, Peng-Hsiang Wang, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Porous pure titanium prepared by sponge replication method for biomedical applications. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.
23. [Shih-Kuang Hsu](#), Kuan-Hsian Lee, Hsueh-Fang Wang, Wen-Fu Ho, Shih-Ching Wu, Hsueh-Chuan Hsu, Characterization of surface modified zirconia by hydrothermal method. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan. (國科會計畫經費補助)
24. Hsueh-Chuan Hsu, Yi-Shing Lin, Cheng-Feng Wang, [Shih-Kuang Hsu](#), Shih-Ching Wu, Wen-Fu

Ho, Evaluation of corrosion behavior and biocompatibility of biomedical Ti-25Nb-xSn alloys. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.

25. Shih-Ching Wu, Wei-Chih Cheng, Fu-Tsang Lin, Wen-Fu Ho, [Shih-Kuang Hsu](#), Hsueh-Chuan Hsu, Phase transformation of porcelain fused zirconia. The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.

## 2012

26. P.L. Chang, C. Pan, H.J. Liao, H.C. Hsu, [S.K. Hsu](#), Wen-Fu Ho, S.C. Wu, Effect of sintering temperature on low temperature degradation of Y-TZP. The 12th Asian BioCeramics Symposium, Nov. 16-18, 2012, Tainan, Taiwan.
27. Wen-Fu Ho, H.C. Hsu, M.S. Tsai, H. Kikuchi, T. Kurotani, S.C. Wu, [S.K. Hsu](#), Biomedical porous titanium alloys prepared by mechanical alloying and powder sintering. The 60rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 13-14, 2012, Kyushu University, Fukuoka, Japan.
28. S.C. Wu, H.J. Liao, P.L. Chang, C. Pan, Wen-Fu Ho, H.C. Hsu, [S.K. Hsu](#), P.C. Tsai, Effects of surface treatments on phase transformation of dental zirconia. The 60rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 13-14, 2012, Kyushu University, Fukuoka, Japan.
29. H.C. Hsu, H.Y. Huang, H. Kikuchi, T. Kurotani, Wen-Fu Ho, S.C. Wu, [S.K. Hsu](#), Electrochemical characteristics of nanotubes formed on Ti-5Cr-9Mo alloy. The 59rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 14-15, 2012, Awagin Hall, Tokushima University, Tokushima, Japan.
30. Wen-Fu Ho, M.S. Tsai, H.C. Hsu, S.C. Wu, [S.K. Hsu](#), Formation of calcium phosphates and cell adhesion on biomedical porous titanium alloys. The 59rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 14-15, 2012, Awagin Hall, Tokushima University, Tokushima, Japan.
31. Wen-Fu Ho, Y.C. Li, H.C. Hsu, S.C. Wu, [S.K. Hsu](#), Structure and properties of cast Ti-Si alloys for biomedical applications. The 59rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 14-15, 2012, Awagin Hall, Tokushima University, Tokushima, Japan.
32. S.C. Wu, H.J. Liao, P.L. Chang, C. Pan, Wen-Fu Ho, H.C. Hsu, [S.K. Hsu](#), Phase transformation of commercial dental zirconia with acetic acid immersing. The 59rd General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 14-15, 2012, Awagin Hall, Tokushima University, Tokushima, Japan.
33. Wen-Fu Ho, H.K. Tsou, M.S. Tsai, S.C. Wu, [S.K. Hsu](#), H.C. Hsu, Microstructure and mechanical properties of biomedical porous titanium alloys by powder sintering. Proc. of the 2012 Annual

Conference of the Dental Titanium Society, Feb. 18-19, 2012, Aichi Gakuin University, Nagoya, Japan.

**2011**

34. Wen-Fu Ho, Yu-Chi Li, Hsueh-Chuan Hsu, Shih-Ching Wu, [Shih-Kuang Hsu](#), Structure and mechanical properties of Ti-10Zr-xMo alloys for biomedical applications. The 12th World Conference on Titanium, June 19-24, 2011, Beijing, China.
35. Hsueh-Chuan Hsu, Lih-Sheng Fang, Wen-Fu Ho, Shih-Ching Wu, [Shih-Kuang Hsu](#), Effects of Mo addition on bond strength of Ti-5Cr alloys to dental porcelain. The 12th World Conference on Titanium, June 19-24, 2011, Beijing, China.
36. W.F. Ho, H.K. Tsou, H. Kikuchi, T. Kurotani, [S.K. Hsu](#), S.C. Wu, H.C. Hsu, Surface modification of Ti-7.5Mo alloy using NaOH treatment and water aging. Proc. of the 2011 Annual Conference of the Dental Titanium Society, Feb. 19-20, 2011, Yokohama, Japan.
37. H.C. Hsu, Y.H. Yang, F.C. Lin, W.F. Ho, S.C. Wu, [S.K. Hsu](#), Biomimetic modification on titanium for biocompatibility improvement. Proc. of the 2011 Annual Conference of the Dental Titanium Society, Feb. 19-20, 2011, Yokohama, Japan.

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