

Name : Wu, Shih-Ching
Education : Ph. D., Department of Materials Science and Engineering, National Chung-Kung University
Career Experience : □
Courses Taught : □ Dental Materials □ Bioceramics
Professional Fields : □ Biomaterials □ Dental Zirconia
Research Interests : □ Dental ceramics
Representative Publication in 5 Years : Journal Articles : <u>2015</u> 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, 2015. (Dec) (NETHERLANDS, ELSEVIER SCIENCE SA) (SCI, EI; Impact Factor: 1.759, Rank: 6/16=38% MATERIALS SCIENCE, COATINGS & FILMS) 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(9):10718-10724, 2015 (Nov) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; Impact Factor: 2.605, Rank: 4/26=15.4% MATERIALS SCIENCE, CERAMICS) 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; Impact Factor: 1.845, Rank: 4/33=12.1% MATERIALS SCIENCE, CHARACTERIZATION & TESTING) 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(6):7596-7604, 2015 (July) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; Impact Factor: 2.605, Rank: 4/26=15.4% MATERIALS SCIENCE, CERAMICS) 5. 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) (UNITED STATES , SPRINGER)

(SCI; **Impact Factor: 0.998, Rank: 177/259=68.3%** MATERIALS SCIENCE, MULTIDISCIPLINARY)

6. 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) (UNITED STATES, ELSEVIER SCIENCE INC) (SCI, EI; **Impact Factor: 1.845, Rank: 4/33=12.1%** MATERIALS SCIENCE, CHARACTERIZATION & TESTING)
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 & Design* 65:700-706, 2015. (Jan) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 3.501, Rank: 43/259=17%** MATERIALS SCIENCE, MULTIDISCIPLINARY)

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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* 572:91-98, 2014. (Dec) (NETHERLANDS, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor: 1.759, Rank: 6/16=38%** MATERIALS SCIENCE, COATINGS & FILMS) (科技部經費補助 NSC102-2221-E-166-005-)
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(12):157-164, 2014. (Jun) (SWITZERLAND, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor:2.567, Rank: 5/74=7%** METALLURGY & METALLURGICAL ENGINEERING)
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(1):11-16, 2014. (Apr) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor:2.131, Rank: 6/74=8.1%** METALLURGY & METALLURGICAL ENGINEERING)
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(1):793-801, 2014. (Jan) (SWITZERLAND, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor:2.999, Rank: 4/74=5.41%** METALLURGY & METALLURGICAL ENGINEERING)

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12. 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 & Design* 51(1):268-273, 2013. (Oct.) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 3.501, Rank: 43/259=17%** MATERIALS SCIENCE, MULTIDISCIPLINARY)

13. 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(1):326-332, 2013 (Oct.) (SWITZERLAND, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor:2.999, Rank: 4/74=5.41% METALLURGY & METALLURGICAL ENGINEERING**)
14. 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-structural materials properties, microstructure, and processing 579(1):86-91, 2013 (Sep.) (SWITZERLAND, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor:2.567, Rank: 5/74=7% METALLURGY & METALLURGICAL ENGINEERING**)
15. [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(7):8183-8188, 2013 (Sep) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 2.605, Rank: 4/26=15.4% MATERIALS SCIENCE, CERAMICS**)
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(6):6467-6473, 2013. (Aug.) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 2.605, Rank: 4/26=15.4% MATERIALS SCIENCE, CERAMICS**)
17. Hsueh-Chuan Hsu, [Shih-Ching Wu](#), Shih-Kuang Hsu, Shao-Hsuan Chuang, and 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) (TAIWAN, DEPT BIOMEDICAL ENGINEERING) (SCI, EI; **Impact Factor: 0.971, Rank: 62/76=82% ENGINEERING, BIOMEDICAL**)
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 & Design 47:21-26, 2013. (May) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 3.501, Rank: 43/259=17% MATERIALS SCIENCE, MULTIDISCIPLINARY**)
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 & Engineering: A 568(15):1-7, 2013. (Apr.) (SWITZERLAND, ELSEVIER SCIENCE SA) (SCI, EI; **Impact Factor:2.567, Rank: 5/74=7% METALLURGY & METALLURGICAL ENGINEERING**)
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(3):645-657, 2013. (Mar)

(NETHERLANDS, SPRINGER) (SCI, EI; **Impact Factor: 2.587, Rank: 25/76=33%** ENGINEERING, BIOMEDICAL)

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 & design* 43:233-236, 2013. (Jan.) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 3.501, Rank: 43/259=17% MATERIALS SCIENCE, MULTIDISCIPLINARY**)

2012

22. Wen-Fu Ho, [Shih-Ching Wu](#), Shih-Kuang Hsu, Yu-Chi Li, Hsueh-Chuan Hsu*, Effects of molybdenum content on the structure and mechanical properties of as-cast Ti-10Zr-based alloys for biomedical applications. *Materials Science & Engineering C: Materials for Biological Applications* 32(3):517-522, 2012. (Apr.) (NETHERLANDS, ELSEVIER SCIENCE BV) (SCI, EI; **Impact Factor: 3.088, Rank: 17/33=52% MATERIALS SCIENCE, BIOMATERIALS**)

2011

23. [Shih-Ching Wu](#), Hsueh-Chuan Hsu, Yu-Ning Wu, Wen-Fu Ho*, Hydroxyapatite synthesized from oyster shell powders by ball milling and heat treatment, *Materials Characterization* 62(12):1180–1187, 2011. (Dec.) (UNITED STATES, ELSEVIER SCIENCE INC) (SCI, EI; **Impact Factor: 1.845, Rank: 4/33=12.1% MATERIALS SCIENCE, CHARACTERIZATION & TESTING**)
24. [Shih-Ching Wu](#), Wei-Hong Chang, Guo-Chung Dong, Kuo-Yu Chen, Yueh-Sheng Chen, Chun-Hsu Yao*, Cell adhesion and proliferation enhancement by gelatin nanofiber scaffolds, *Journal of Bioactive and Compatible Polymers* 26(6):565–577, 2011. (Nov.) (ENGLAND, SAGE PUBLICATIONS LTD) (SCI, EI; **Impact Factor: 2.352, Rank: 27/82=33% POLYMER SCIENCE**)
25. 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.) (ROMANIA, GH ASACHI TECHNICAL UNIV IASI) (SCI, EI; **Impact Factor: 1.065, Rank: 159/221=72% ENVIRONMENTAL SCIENCES**)
26. [Shih-Ching Wu](#), Wen-Fu Ho, Cheng-Wei Lin, Hisaji Kikuchi, Fu-Tsang Lin, Hsueh-Chuan Hsu*, Surface characterization and bond strengths between Ti-20Cr-1X alloys and low-fusing porcelain, *Dental Materials Journal* 30(3): 368–373, 2011. (May) (JAPAN, JAPANESE SOC DENTAL MATERIALS DEVICES) (SCI, EI; **Impact Factor: 0.968, Rank: 61/87=70% DENTISTRY, ORAL SURGERY & MEDICINE**)
27. [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) (UNITED STATES, ELSEVIER SCIENCE INC) (SCI, EI; **Impact Factor: 1.845, Rank: 4/33=12.1%** MATERIALS SCIENCE, CHARACTERIZATION & TESTING)

28. Wen-Fu Ho, Hsueh-Chuan Hsu, Yun-Fen Peng, [Shih-Ching Wu*](#), Microstructure and mechanical properties of dental 3Y-TZP ceramics by using CaO-P₂O₅ glass as additive. *Ceramics International* 37(4):1169-1174, 2011. (May) (ENGLAND, ELSEVIER SCI LTD) (SCI, EI; **Impact Factor: 2.605, Rank: 4/26=15.4%** MATERIALS SCIENCE, CERAMICS) (NSC 98-2221-E-166-006)
29. 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.) (UNITED STATES, SPRINGER) (SCI, EI; **Impact Factor: 2.371, Rank: 62/259=24%** MATERIALS SCIENCE, MULTIDISCIPLINARY)
30. 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.) (NETHERLANDS, SPRINGER) (SCI, EI; **Impact Factor: 2.409, Rank: 11/28=39.3%** ELECTROCHEMISTRY)
31. 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* 62:157-163, 2011. (Feb.) (UNITED STATES, ELSEVIER SCIENCE INC) (SCI, EI; **Impact Factor: 1.845, Rank: 4/33=12.1%** MATERIALS SCIENCE, CHARACTERIZATION & TESTING)
32. 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)
33. 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.)
34. 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 H₂O₂ 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. Shu-Han Yin, [Shih-Ching Wu*](#), Shih-Kuang Hsu, Study of Surface Modification on Zirconia for Enhancing Biocompatibility, 2015 International Conference of Digital Dental Technology, May 30 - June 1, 2015, Taipei Innovation City Convention Center, Taipei, Taiwan. ([Excellent Award](#))
4. 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.
5. 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.
6. 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.
7. 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.
8. [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.
9. 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.

10. 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

11. 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.

12. 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.

13. Yi-Rong Li, [Shih-Ching Wu*](#), Effect of Coloring Metal Oxides Solutions on Dental 3Y-TZP Ceramics, 2014 International Conference of Digital Dental Technology, June 14-15, 2014, Splendor Hotel, Taichung, Taiwan. ([Bronze Medal Award](#))

14. 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. International Conference on Metallurgical Coatings and Thin Films (ICMCTF), April 28-May 2, 2014, The Town and Country Hotel, San Diego, CA, USA.

15. 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.

16. 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.

17. [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.

18. 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.

19. 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.
20. 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.

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21. 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, Niigata University, Japan.
22. 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, Niigata University, 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.
24. Wen-Fu Ho, Yung-Hao Hung, Hsueh-Chuan Hsu, [Shih-Ching Wu](#), Shih-Kuang Hsu, Chemical treatment and bioactivity of nanotubular anodized Ti alloy, The 61st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Apr. 13-14, 2013, Tower Hall Funabori, Tokyo, Japan.
25. Wen-Fu Ho, Peng-Hsiang Wang, Hsueh-Chuan Hsu, [Shin-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.
26. Wen-Fu Ho, Hsueh-Chuan Hsu, Ming-Shiun Tsai, H Kikuchi, T Kurotani, [Shih-Ching Wu](#), Shin-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.
27. Hsueh-Chuan Hsu, Yi-Hsin Lin, Cheng-Feng Wang, Shin-Kuan Hsu, [Shin-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.

28. [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.
29. Wen-Fu Ho, Shu-Ping Liou, Hsi-Kai Tsou, 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.

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30. P.L. Chang, C. Pan, H.J. Liao, H.C. Hsu, S.K. Hsu, W.F. Ho, [S.C. Wu*](#), Effect of Sintering Temperature on Low Temperature Degradation of Y-TZP. 12th Asian BioCeramics (ABC2012) Symposium, November 19-21, 2012, National Cheng Kung University, Tainan, Taiwan
31. Wen-Fu Ho, Hsueh-Chuan Hsu, Ming-Shium Tsai, Hisaji Kikuchi, Tomoko Kurotani, [Shih-Ching Wu](#), Shih-Kuang Hsu, Biomedical porous titanium alloys prepared by mechanical alloying and powder sintering, The 60st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 13-14, 2012, Centennial Hall Kyushu University School of Medicine, Fukuoka, Japan.
32. [Shih-Ching Wu*](#), Huei-Jyuan Liao, Pai-Ling Chang, Chi Pan, Wen-Fu Ho, Hsueh-Chuan Hsu, Shih-Kuang Hsu, Pei-Chun Tsai, Effects of surface treatments on phase transformation of dental zirconia, The 60st General Session of the Japanese Society for Dental Materials and Devices (JSDMD), Oct. 13-14, 2012, Centennial Hall Kyushu University School of Medicine, Fukuoka, Japan.
33. 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, Japan.
34. Wen-Fu Ho, Ming-Shium 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, Japan.
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