

2014-2019 發表論文

A. SCI/EI 期刊論文

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B. 國際研討會論文

1. Ching-Yen Chuang, **Jyh-Wei Lee**, Chia-Lin Li, Jinn P. Chu, Jenq-Gong Duh, 2013, "Evaluation of Microstructure and Mechanical Properties of Nitrogen Doped ZrNiAlSi Thin Film Metallic Glasses", 2013 TMS (March 3-7, 2013, San Antonio, Texas)
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4. Yu-Chiao Hsiao, **Jyh-Wei Lee**, Yung-Chin Yang, 2013, " Effects of Duty Cycle and Pulse Frequency on the Fabrication of AlCrN Thin Films Deposited by High Power Impulse Magnetron Sputtering ", Proceeding of ICMCTF 2013 conference, (April 28-May 03, 2013, San Diego, California, USA)
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6. W.S. Lai, **Jyh-Wei Lee**, C.J. Wang, 2013, "Influences of Boron Contents on the Microstructure and Mechanical Properties of Ti-Zr-B-N Thin Films Deposited by Pulsed DC Reactive Magnetron Sputtering", Proceeding of ICMCTF 2013 conference, (April 28-May 03, 2013, San Diego, California, USA)
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12. Bih-Show Lou, Yu-Chiao Hsiao, **Jyh-Wei Lee**, Yung-Chin Yang, Ching-Shiun Chen, Yuan-Tai Lai, 2013, "Effect of Processing Parameters on Raman Spectra and Structure Characteristics of AlN Films Fabricated by HIPIMS Technology", The 8th Pacific Rim International Conference on Advanced Materials and Processing (PRICM 8) (August 4-9, 2013 Waikoloa, Hawaii USA)
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14. Chen-Te Chang, Yu-Chiao Hsiao, Yung-Chin Yang, **Jyh-Wei Lee**, Bih-Show Lou, 2013, "Evaluation of aluminum nitride thin films grown by high power impulse magnetron sputtering", TACT2013 International Thin Films Conference (October 5- 9, 2013, Taipei, Taiwan)

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19. **Jyh-Wei Lee**, Yung-Chin Yang, Ching-Yen Chuang, Yu-Lun Deng, Tzu-Pin Hsiao, Li-Ting Chen, Chia-Lin Li , Jinn P. Chu, Jenq-Gong Duh, Jason Shian-Ching Jang, Bih-Show Lou, 2013, "Recent Developments of Zr- and Ti-based Thin Film Metallic Glass Materials", International Conference on Surface Engineering (ICSE 2013) (Nov. 19-22, 2013, Busan, Korea) (*Invited Speaker*)
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23. De-Hsuan Kao, Chaur-Jeng Wang, **Jyh-Wei Lee**, 2014, "Influences of TMS Flow Rates on the Structure and Mechanical Properties of Cr-Si-C-N Thin Films Deposited by Pulsed DC Reactive Magnetron Sputtering", Proceeding of ICMCTF 2014 conference, (April 27-May 2, 2014, San Diego, California, USA)
24. Li-Ting Chen, **Jyh-Wei Lee**, Yung-Chin Yang, 2014, "Microstructure, Mechanical and Anti-corrosion Property Evaluation of Iron-based Thin Film Metallic Glasses", Proceeding of ICMCTF 2014 conference, (April 27-May 2, 2014, San Diego, California, USA)
25. Fan Chang, Chaur-Jeng Wang, Bih-Show Lou, **Jyh-Wei Lee**, 2014, "Characterization of Plasma Electrolytic Oxidized Coatings on Hot-dip Aluminized Carbon Steel", Proceeding of ICMCTF 2014 conference, (April 27-May 2, 2014, San Diego, California, USA)
26. **Jyh-Wei Lee**, Bih-Show Lou, Jen-Chun Chang, Po-Wei Chang, Chia-Lin Li, Jinn P. Chu, 2014, "Fabrication and property evaluation of Tungsten based thin film metallic glass materials",

The 10th International Conference on Bulk Metallic Glasses (BMG X) (June 1-5, 2014, Shanghai, China)

27. Li-Chi Hsu, **Jyh-Wei Lee**, 2014, "Characteristics of Cr-B-Si-N/Ti-B-Si-N multilayer coatings", International Conference on Electronic Materials 2014 (IUMRS-ICEM 2014)(June 10-14, 2014, Taipei, Taiwan)
28. Yu-Lun Deng, **Jyh-Wei Lee**, 2014, "Effects of silicon contents on the anticorrosion properties of Zr-based thin film metallic glasses", International Conference on Electronic Materials 2014 (IUMRS-ICEM 2014)(June 10-14, 2014, Taipei, Taiwan)
29. Po-Wei Chang, **Jyh-Wei Lee**, 2014, "Properties of TiN coatings fabricated by hybrid coating system with high power impulse magnetron sputtering (HIPIMS) and radio frequency (RF) sputtering", ThinFilms 2014 (July 15 - 18, 2014, Chongqing, China)
30. Jen-Chun Chang, **Jyh-Wei Lee**, Bih-Show Lou, Chia-Lin Li, Jinn P. Chu, 2014, "Effects of tungsten contents on the microstructures and mechanical properties of nitrogen doped W-Zr-Ti thin film metallic glasses", ThinFilms 2014 (July 15 - 18, 2014, Chongqing, China)
31. **Jyh-Wei Lee**, 2014, "Recent progress in thin film metallic glasses in Taiwan", 2014 Korean Vacuum Society Summer Meeting, (Aug. 18-20, 2014, Sorak, Korea) (*Invited Speaker*)
32. Wei-Ju Chen, Yu-Jie Chang, **Jyh-Wei Lee**, Bih-Show Lou, 2014, "Photocatalytic characteristics of titania films prepared by plasma electrolytic oxidation", 14th International Conference on Plasma Surface Engineering (Sep. 15-19, 2014, Garmisch-Partenkirchen, Germany)
33. Yu-Chiao Hsiao, Bo-Wei Chang, **Jyh-Wei Lee**, Yung-Chin Yang, Bih-Show Lou, 2014, "Effect of substrate bias on the fabrication of AlCrN thin films using high power impulse magnetron sputtering technique", 14th International Conference on Plasma Surface Engineering (Sep. 15-19, 2014, Garmisch-Partenkirchen, Germany)
34. **Jyh-Wei Lee**, 2015, "The influence of deposition parameters on structures and properties of some transition metal nitride coatings deposited by high power impulse magnetron sputtering", 2015 Taiwan High Density Plasma Coating Forum (Feb. 5-6, Taichung, Taiwan) (*Invited Speaker*)
35. Yu-Lun Deng, Li-Ting Chen, **Jyh-Wei Lee**, Yung-Chin Yang, 2015, "Corrosion resistance evaluation of thin film metallic glasses coated stainless steels Corrosion", Corrosion 2015 (March 15-19, Dallas, TX. USA)
36. Wei-Ju Chen, Yu-Jie Chang, Tzu-Yao Lin, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Effect of processing parameter on the microstructure and photocatalytic property of plasma electrolytic oxidation coatings on pure titanium", ISPlasma2015 (March 26-31, Nagoya, Japan)
37. P.-Y. Chen, H.-M. Yang, T.-H. Hsu, H.-K. Chang, Y.-C. Chan, **Jyh-Wei Lee**, J.G. Duh, 2015, "Bio-inspired Organic/Inorganic Multilayer Coatings Synthesized by RF Sputtering and Pulse Laser Deposition", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
38. S. F. Lu, Y.C. Yang, **Jyh-Wei Lee**, B.S. Lou, 2015, "Effects of Duty Cycle and Electrolyte Concentration on the Microstructure and Biocompatibility of Plasma Electrolytic Oxidation Treatment on Zirconium Metal", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)

39. P. W. Chang, **Jyh-Wei Lee**, 2015, "Microstructure and Mechanical Properties Evaluation of CrVN Coatings Fabricated by a Hybrid HIPIMS and RF Sputtering System", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
40. C.-C. Chou, J.-S. Lin, R. Wu, **Jyh-Wei Lee**, M.-K. Hsu, 2015, "Mechanical Property and Oxidation Behavior of an a-CNx Deposited Tungsten Carbide with Various Silica-Alumina Hybrid Composite Interlayers Prepared by Sol-Gel Technique", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
41. C.C.Chang, H.W. Chen, **Jyh-Wei Lee**, J.G. Duh, 2015, "The Influence of Cr/Al Ratio on Tribological Properties of Nanocomposite (Cr, Al)SiN Coatings under High Temperature", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
42. J.C. Chang, **Jyh-Wei Lee**, B. S. Lou, C.L. Li, J.P. Chu, 2015, "Effects of Annealing on the Microstructure and Mechanical Property of W-Zr-Si Thin Film Metallic Glasses", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
43. Y. Chang, **Jyh-Wei Lee**, W. Chen, T. Lin, B. S. Lou, 2015, "Photocatalytic Ability Evaluation and Life Cycle Assessment of Environmentally Friendly TiO₂ Thin Films", Proceeding of ICMCTF 2015 conference, (April 19-24, 2015, San Diego, California, USA)
44. Tzu-Yao Lin, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Influences of iron contents on the microstructure, mechanical and electrochemical properties of ternary Zr-Fe-Nb thin film metallic glasses", The 13th International Symposium on Sputtering & Plasma Processes (ISSP2015) (July 8-10, 2015, Kyoto, Japan)
45. Chih-Yuan Cheng, **Jyh-Wei Lee**, 2015, "Properties of CrSiN coatings fabricated by a hybrid coating system with high power impulse magnetron sputtering (HIPIMS) and radio frequency (RF) sputtering", The 13th International Symposium on Sputtering & Plasma Processes (ISSP2015) (July 8-10, 2015, Kyoto, Japan)
46. Chih-Yuan Cheng, Po-Wei Chang, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Mechanical property and corrosion resistance evaluation of CrVN and CrSiN thin films grown by a hybrid high power impulse magnetron sputtering and radio frequency sputtering technique", The AVS 62nd International Symposium and Exhibition (AVS-62) (Oct. 18-23, 2015, San Jose, California, USA)
47. Bih-Show Lou, Shao-Fu Lu, **Jyh-Wei Lee**, Yung-Chin Yang, 2015, "Microstructure and biocompatibility evaluation of zirconia coatings grown by plasma electrolytic oxidation technique", The AVS 62nd International Symposium and Exhibition (AVS-62) (Oct. 18-23, 2015, San Jose, California, USA)
48. Tzu-Yao Lin, Si-Bu Wang, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Influences of niobium contents on the mechanical property, corrosion resistance and biocompatibility of ternary Fe-Zr-Nb thin film metallic glasses", TACT2015 International Thin Films Conference (Nov.15 - 18, 2015, National Cheng Kung University, Tainan, Taiwan)
49. Chih-Yuan Cheng, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Influences of frequency and duty cycle on the mechanical properties and corrosion resistance of CrSiN thin films grown by a hybrid high power impulse magnetron sputtering and radio frequency sputtering technique", TACT2015

International Thin Films Conference (Nov.15 – 18, 2015, National Cheng Kung University, Tainan, Taiwan)

50. Feng-chuan Chang, Chaur-Jeng Wang, Yi-Yuan Lin, **Jyh-Wei Lee**, Bih-Show Lou, 2015, "Microstructure and mechanical properties evaluation of molybdenum disulfide-titania nanocomposite coatings grown by plasma electrolytic oxidation", TACT2015 International Thin Films Conference (Nov.15 – 18, 2015, National Cheng Kung University, Tainan, Taiwan)
51. Po-Chi Wang, Yung-Chin Yang, **Jyh-Wei Lee**, 2015, "Effects of Tungsten contents on the characteristics of Zr-Ti-Si-W thin film metallic glasses", TACT2015 International Thin Films Conference (Nov.15 – 18, 2015, National Cheng Kung University, Tainan, Taiwan)
52. Chaur-Jeng Wang, De-Hsuan Kao, Bih-Show Lou, **Jyh-Wei Lee**, Si-Bu Wang, 2015, "A study of Chromium-doped diamond-like carbon thin films grown by a pulsed DC reactive magnetron sputtering method", TACT2015 International Thin Films Conference (Nov.15 – 18, 2015, National Cheng Kung University, Tainan, Taiwan)
53. Tzu-Yao Lin, Chi-Yu Lu, Po-Chi Wang, Yueh-Chien Lee, **Jyh-Wei Lee**, Yung-Chin Yang, 2015, "A study of distributed Bragg reflectors made by ZrO₂/MgO multilayer films", TACT2015 International Thin Films Conference (Nov.15 – 18, 2015, National Cheng Kung University, Tainan, Taiwan) (**Poster Award of merit**)
54. P.C. Wang, **Jyh-Wei Lee**, Y.C. Yang, B.S. Lou, 2016, "Comparison Study on the Mechanical Property and Biocompatibility of W-contained Ti-based and Zr-based Thin Film Metallic Glasses", Proceeding of ICMCTF 2016 conference, (April 24-29, 2016, San Diego, California, USA)
55. F.C. Chang, C.J. Wang, **Jyh-Wei Lee**, B.S. Lou, 2016, "Microstructure and Mechanical Properties Evaluation of Silicon Nitride-titania Nanocomposite Coatings Grown by Plasma Electrolytic Oxidation", Proceeding of ICMCTF 2016 conference, (April 24-29, 2016, San Diego, California, USA)
56. T.Y. Lin, **Jyh-Wei Lee**, B.S. Lou, 2016, "Influences of Niobium Contents on the Mechanical Property, Corrosion Resistance and Biocompatibility of Ternary Fe-Zr-Nb Thin Film Metallic Glasses", Proceeding of ICMCTF 2016 conference, (April 24-29, 2016, San Diego, California, USA)
57. C.Y. Cheng, **Jyh-Wei Lee**, 2016, "Property Evaluation of CrSiN Coatings Fabricated by a Superimposed High Power Impulse Magnetron Sputtering System", Proceeding of ICMCTF 2016 conference, (April 24-29, 2016, San Diego, California, USA)
58. Y. Wang, **Jyh-Wei Lee**, J. G. Duh, 2016, "Toward High-temperature Wear Resistance Enhancement in Self-lubricating CrAlN/VN Multilayer Coatings", Proceeding of ICMCTF 2016 conference, (April 24-29, 2016, San Diego, California, USA)
59. **Jyh-Wei Lee**, Yi-Yuan Lin, Chuan-Ming Tseng, Bih-Show Lou, 2016, "Mechanical property evaluation of plasma electrolytic oxidation treatment on AZ31 magnesium alloy", ThinFilms 2016 (July 12 - 15, 2016, Singapore)
60. Bih-Show Lou, Yung-Chin Yang, **Jyh-Wei Lee**, Li-Ting Chen, 2016, "Biocompatibility and mechanical property evaluation of Zr-Ti-Fe based ternary thin film metallic glasses", ThinFilms 2016 (July 12 - 15, 2016, Singapore)

61. Ying Lee, Si-Bu Wang, **Jyh-Wei Lee**, Bih-Show Lou, 2016,"Characteristics of plasma polymerization films using HMDSO precursor on 316L stainless", 20th International Vacuum Congress (Aug 21-26, 2016, Busan, Korea)
62. Yi-Yuan Lin, **Jyh-Wei Lee**, Chuan-Ming Tseng, Bih-Show Lou, 2016,"Plasma electrolytic oxidation coatings on AZ31 magnesium alloys with addition of MoS₂ particles", 20th International Vacuum Congress (Aug 21-26, 2016, Busan, Korea)
63. **Jyh-Wei Lee**, 2016,"Development of transition metal nitride hard coatings through the composition and processing control", 20th International Vacuum Congress (Aug 21-26, 2016, Busan, Korea) (**Invited Speaker**)
64. Yu-Ci Hong, **Jyh-Wei Lee**, Bih-Show Lou, 2016,"The optical and mechanical properties of Al doped zinc oxide thin film fabricated by high power impulse magnetron sputtering", 20th International Vacuum Congress (Aug 21-26, 2016, Busan, Korea)
65. Chi-Yu Lu, **Jyh-Wei Lee**, 2016,"Properties of CrTiBN coatings fabricated by a hybrid coating system with high power impulse magnetron sputtering (HIPIMS) and radio frequency (RF) sputtering", 20th International Vacuum Congress (Aug 21-26, 2016, Busan, Korea)
66. Feng-chuan Chang, Chaur-Jeng Wang, **Jyh-Wei Lee**, Bih-Show Lou, 2016,"Influence of electrolyte concentration and additives on the plasma electrolytic oxidation treatment of Ti-6Al-4V alloy", 15th International Conference on Plasma Surface Engineering (September 12-16, 2016, Garmisch-Partenkirchen, Germany)
67. Fang-Song Tsai, Chaur-Jeng Wang, **Jyh-Wei Lee**, Bih-Show Lou, 2016,"Microstructure, mechanical and electrical properties evaluation of TiZrN and ZrTiN coatings fabricated by a hybrid HIPIMS and RF sputtering system", 15th International Conference on Plasma Surface Engineering (September 12-16, 2016, Garmisch-Partenkirchen, Germany)
68. **Jyh-Wei Lee**, 2016,"Development of advanced physical vapor deposition techniques and material systems in Taiwan", 7th International Conference of Surface Engineering (October 22-25, Chengdu, China) (**Invited Speaker**)
69. **Jyh-Wei Lee**, 2016,"Development of high power impulse magnetron sputtering (HiPIMS) techniques", 2016 Korea Institute of Surface Engineering Fall Meeting (November 16-18, Soeul, Korea) (**Invited Speaker**)
70. N.-E. Wu, Wen-Hsien Wu, C.-C. Chou, R. Wu, **Jyh-Wei Lee**, 2017,"Mechanical and Anti-Corrosive Properties of Various Titania/Silica Hybrid Composite Film as the Interlayer of a Diamond-Like Carbon Deposited Ti6Al4V Substrate by Sol-Gel Technique", Proceeding of ICMCTF 2017 conference, (April 23-28, 2017, San Diego, California, USA)
71. Yu-Chi Hong, **Jyh-Wei Lee**, Bih-Show Lou, 2017,"Optical and Mechanical Properties of Al-doped Zinc Oxide Thin Film Fabricated by a High Power Impulse Magnetron Sputtering", Proceeding of ICMCTF 2017 conference, (April 23-28, 2017, San Diego, California, USA)
72. Si-Bu Wang, **Jyh-Wei Lee**, Ying Lee, Bih-Show Lou, 2017,"Characteristics of Plasma Polymerization Films using HMDSO Precursor on 316L Stainless Steel", Proceeding of ICMCTF 2017 conference, (April 23-28, 2017, San Diego, California, USA)
73. Chi-Yu Lu, Wahyu Diyatmika1, **Jyh-Wei Lee**, 2017,"Influences of Frequency and Duty Cycle on

the Mechanical Properties of TiCrBN Thin Films Grown by a Hybrid Superimposed High Power Impulse Magnetron Sputtering and Radio Frequency sputtering technique", Proceeding of ICMCTF 2017 conference, (April 23-28, 2017, San Diego, California, USA)

74. Yi-Yuan Lin, Chuan-Ming Tseng, **Jyh-Wei Lee**, Bih-Show Lou, 2017, "Plasma Electrolytic Oxidation Coatings on AZ31 Magnesium Alloys with Si₃N₄ Nanoparticle Additives", Proceeding of ICMCTF 2017 conference, (April 23-28, 2017, San Diego, California, USA)
75. **Jyh-Wei Lee**, 2017, "A strategy for improving the mechanical properties of thin film metallic glass materials by nanocomposite microstructure evolution", 2017 Global Conference on Polymer and Composite Materials (PCM 2017), (May 23-25, Guangzhou, China) (**Invited Speaker, Best Oral Presentation**)
76. Wahyu Diyatmika, **Jyh-Wei Lee**, 2017, "Improving deposition rate of titanium nitride-based films using a superimposed high-power impulse and middle-frequency magnetron sputtering technique", 8th International Conference on Fundamentals and Applications of HIPIMS (June 13-14, Braunschweig, Germany) (**First Prize of Young Scientist Award**)
77. **Jyh-Wei Lee**, Fei-Ke Liang, Wahyu Diyatmika, Bih-Show Lou, De-En Sun, 2017, "Fabrication of TiN thin films by a superimposed HiPIMS and mid-frequency magnetron sputtering system", Frontiers in Materials Processing Applications, Research and Technology (July 9-12, Bordeaux, France)
78. Bih-Show Lou, Tzu-Yao Lin, **Jyh-Wei Lee**, 2017, "Mechanical property and biocompatibility evaluation of Fe-Zr-Nb thin film metallic glasses", Frontiers in Materials Processing Applications, Research and Technology (July 9-12, Bordeaux, France)
79. Yu-Wen Su, Chi-Yu Lu, **Jyh-Wei Lee**, 2017, "Effect of target poisoning on the fabrication of TiN coatings using a superimposed HiPIMS and MF deposition system", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea)
80. Jhong-Bo Wang, Yung-Chin Yang, Bih-Show Lou, **Jyh-Wei Lee**, 2017, "Antibacterial property evaluation of boron contained ZrCuAlNi thin film metallic glasses", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea)
81. Qi-Lin Tang, Yu-Chuan Wu, **Jyh-Wei Lee**, 2017, "Mechanical property evaluation of ZrSiN films deposited by a hybrid superimposed high power impulse- medium frequency sputtering and RF sputtering system", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea)
82. Zheng-Long Li, Chaur-Jeng Wang, **Jyh-Wei Lee**, Wahyu Diyatmika, 2017, "Fabrication of chromium carbide thin films through the high power impulse magnetron sputtering", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea)
83. Yi-Jie Liao, Zhen-Yu Chen, **Jyh-Wei Lee**, 2017, "Corrosion property evaluation of Fe-Zr-Nb thin film metallic glasses", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea)

84. **Jyh-Wei Lee**, Chi-Yu Lu, Wahyu Diyatmika, Bih-Show Lou, 2017, "Deposition of transition metal nitride hard coatings by a superimposed high power impulse and mid-frequency magnetron sputtering system", The 11th Asian-European International Conference on Plasma Surface Engineering (2017 AEPSE) (September 11-15, 2017, Jeju. Korea) (**Invited Speaker**)
85. Pei-Jen Tsai, Yu-Chi Hong, **Jyh-Wei Lee**, Bih-Show Lou, 2017, "Mechanical, optical and electrical properties evaluation of Al doped zinc oxide thin film fabricated by a high power impulse magnetron sputtering", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan) (**Poster Presentation Award**)
86. Yu-Wen Su, Chi-Yu Lu, **Jyh-Wei Lee**, Wahyu Diyatmika, 2017, "Fabrication of TiN coatings using superimposed HiPIMS and MF: target poisoning effect", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
87. Chi-Yu Lu, Wahyu Diyatmika, Bih-Show Lou, **Jyh-Wei Lee**, 2017, "Superimposition of high power impulse and middle frequency magnetron sputtering for fabrication of CrTiBN multicomponent hard coatings", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
88. Guo-Ju Chen, C.-Y. Shen, Sheng-Rui Jian, Huang-Wei Chang, **Jyh-Wei Lee**, 2017, "Effects of Cu doping on the surface analysis and nanomechanical properties of ZnO thin films", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
89. Chien-An Yen, Yi-Yuan Lin, Chuan-Ming Tseng, **Jyh-Wei Lee**, Bih-Show Lou, 2017, "Mechanical property and corrosion resistance evaluation of AZ31 magnesium alloys by plasma electrolytic oxidation treatment: effect of MoS₂ particle addition", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
90. Jhong-Bo Wang, Tzu-Pin Hsiao, Yung-Chin Yang, Bih-Show Lou, **Jyh-Wei Lee**, 2017, "Mechanical property and corrosion resistance evaluation of ZrCuAlNiB thin film metallic glasses", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
91. Qi-Lin Tang, Yu-Chuan Wu, **Jyh-Wei Lee**, 2017, "Mechanical property evaluation of ZrN films deposited by a hybrid superimposed high power impulse- medium frequency sputtering system", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
92. Zheng-Long Li, Chaur-Jeng Wang, Hsien-Wei Chen, Jenq-Gong Duh, **Jyh-Wei Lee**, 2017, "Thermal stability of chromium carbide thin films grown by high power impulse magnetron sputtering", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
93. Bih-Show Lou, Sheng-Bo Houg, Chaur-Jeng Wang, Si-Bu Wang, **Jyh-Wei Lee**, 2017, "Characteristics of silicon oxide based thin films fabricated by plasma polymerization technique", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
94. Ai-Ju Chen, Yi-Xiang Qiu, Yung-Chin Yang, **Jyh-Wei Lee**, 2017, "Effect of Silicon Content on the Microstructure and Mechanical Properties of TiCrSiN Thin Films", TACT2017 International Thin Films Conference (October 15-18, 2017, Hualien, Taiwan)
95. Yi-Jie Liao, Ming-Tzer Lin, **Jyh-Wei Lee**, 2017, "Mechanical property evaluation of Zr-Ti-Fe thin film metallic glasses", TACT2017 International Thin Films Conference (October 15-18, 2017,

Hualien, Taiwan)

96. **Jyh-Wei Lee**, 2017, "Applications of Pack Cementation-based and Plasma-based Surface Treatment and Modification Technologies on Engineering Alloys", 2017 International Symposium on Surface Treatment & Modification Technology (November 21-25, 2017, Jeju, Korea) (**Invited Speaker**)
97. **Jyh-Wei Lee**, Yu-Wen Su, Chi-Yu Lu, Wahyu Diyatmika, Bih-Show Lou, 2017, "Improvement of deposition rate of high power impulse magnetron sputtering system using hybrid and superimposition approaches", 2017 International Conference on Reactive Sputtering Deposition (RSD2017) (December 04-06, 2017, Pilsen, Czech Republic) (**Invited Speaker**)
98. **Jyh-Wei Lee**, Chi-Yu Lu, Yu-Wen Su, Bih-Show Lou, 2017, "Application of Plasma Emission Monitoring Technique on the Fabrication of Hard Coatings by Reactive Sputtering", 10th Asia-Pacific International Symposium on the Basics and Applications of Plasma Technology (APSPT-10) (December 15-17, 2017, Taoyuan, Taiwan) (**Invited Speaker**)
99. J. B. Wang, Y. C. Yang, **Jyh-Wei Lee**, 2018, "Effects of Nb and Ti on the Corrosion and Biocompatibility Behavior of Zr-based and Fe-based Thin Film Metallic Glasses", 2018 ICMCTF conference, (April 22-27, 2018, San Diego, California, USA)
100. Y.W. Su, **Jyh-Wei Lee**, 2018, "Fabrication of TiBCN Coatings using a Superimposed HiPIMS and MF Deposition System", 2018 ICMCTF conference, (April 22-27, 2018, San Diego, California, USA)
101. Y.J. Liao, D.Y. Tseng, T.Y. Wu, M.T. Lin, **Jyh-Wei Lee**, 2018, "Mechanical Property Evaluation of Zr-Ti- Fe Thin Film Metallic Glasses", 2018 ICMCTF conference, (April 22-27, 2018, San Diego, California, USA)
102. Q. L. Tang, Y. C. Wu, **Jyh-Wei Lee**, 2018, "Mechanical Property Evaluation of ZrCN Films Deposited by a Hybrid Superimposed High Power Impulse- Middle Frequency Sputtering System", 2018 ICMCTF conference, (April 22-27, 2018, San Diego, California, USA)
103. Z. L. Li, C. J. Wang, **Jyh-Wei Lee**, 2018, "Comparison of Chromium Carbide Thin Films Grown by Different Power Supply Systems", 2018 ICMCTF conference, (April 22-27, 2018, San Diego, California, USA)
104. Ai-Ju Chen, Yung-Chin Yang, Bih-Show Lou, Yu-Ming Su, Chi-Ho Lai, **Jyh-Wei Lee**, 2018, "Effect of the atmospheric pressure plasma jet on the treatment of Klebsiella pneumoniae", 7th International Conference on Plasma Medicine, (June 17-22, 2018, Philadelphia, Pennsylvania, USA)
105. **Jyh-Wei Lee**, Jang-Hsing Hsieh, Chih-Ho Lai, Yu-Ming Su, Bih-Show Lou, 2018, "Sterilization of Enterococcus Faecalis Bacteria by an Atmospheric Cold Plasma Jet", 7th International Conference on Plasma Medicine, (June 17-22, 2018, Philadelphia, Pennsylvania, USA)
106. Bih-Show Lou, Chien-An Yen, Yen-Hsiang Chang, **Jyh-Wei Lee**, 2018, "Biocompatibility and biocorrosion of biodegradable AZ31 magnesium alloys treated by plasma electrolytic oxidation", 7th International Conference on Plasma Medicine, (June 17-22, 2018, Philadelphia, Pennsylvania, USA)
107. Yen-Yu Chen, Chi-Lin Tang, **Jyh-Wei Lee**, Yu-Chuan Wu, 2018, "ZrCN Thin Film by a

- superimposed high power impulse and medium-frequency magnetron sputtering (HiPIMS)", ThinFilms 2018, (July 17-20, ShenZhen, China)
108. Chien-An Yen, **Jyh-Wei Lee**, Bih-Show Lou, 2018, "Effect of KOH concentration on microstructure and corrosion resistance of plasma electrolytic oxidation coatings on AZ31 magnesium alloys", ThinFilms 2018, (July 17-20, ShenZhen, China)
 109. Pei-Jen Tsai, Bih-Show Lou, **Jyh-Wei Lee**, 2018, "Corrosion property evaluation of TiN coatings using different thin film metallic glass interlayers", ThinFilms 2018, (July 17-20, ShenZhen, China)
 110. Bih-Show Lou, Sheng-Bo Hung, Chaur-Jeng Wang, **Jyh-Wei Lee**, 2018, "Thermal property evaluation of W-Ti-Nb-Mo and W-Ti-Nb-Mo-N high-entropy alloy thin films", ThinFilms 2018, (July 17-20, ShenZhen, China) (**Poster Third Award**)
 111. **Jyh-Wei Lee**, Wen-Shiang Lai, Chaur-Jeng Wang, 2018, "Microstructure and mechanical property evaluation of boron-contained TiZrBN hard coatings", The 83rd IUVSTA (International Union for Vacuum Science, Technique and Applications) Workshop), (Sept. 2-6, Vadstena, Sweden)
 112. Bih-Show Lou, Tzu-Pin Hsiao, Yung-Chin Yang, **Jyh-Wei Lee**, 2018, "Effects of boron content on the mechanical property and corrosion resistance of ZrCuAlNiB thin film metallic glasses", The 83rd IUVSTA (International Union for Vacuum Science, Technique and Applications) Workshop), (Sept. 2-6, Vadstena, Sweden)
 113. Sheng-Bo Hung, Chaur-Jeng Wang, Bih-Show Lou, Jenq-Gong Duh, Shou-Yi Chang, **Jyh-Wei Lee**, 2018, "Corrosion property and thermal stability evaluation of V-Nb-Mo-Ta-W and V-Nb-Mo-Ta-W-N high entropy alloy thin films", ICHEM 2018, The 2nd International Conference on High-Entropy Materials, (Dec.9-12, 2018, Jeju, Korea)
 114. Chuan-Ming Tseng, Wei-Chen Liao, **Jyh-Wei Lee**, 2018, "Effect of Al content on pitting corrosion of Ni₂FeCoCrAl_x high entropy alloys", ICHEM 2018, The 2nd International Conference on High-Entropy Materials, (Dec.9-12, 2018, Jeju, Korea)
 115. **Jyh-Wei Lee**, 2019, "Application of Plasma Monitoring and Diagnostic Techniques for the Reactive High power Impulse Magnetron Sputtering", The Int. Surfaces, Coatings and Interfaces Conference (SurfCoat Korea 2019) (March 27-29, 2019, Incheon, Korea) (**Keynote Speaker**)
 116. Pei-Jen Tsai, **Jyh-Wei Lee**, 2019, "Coloration and Mechanical Property Evaluation of TiN_xO_y Coatings Grown by a Superimposed High Power Impulse and Medium Frequency Magnetron Sputtering", 12th International Conference on Plasma-Nano Technology & Science, (March 17-21, 2019, Nagoya, Japan)
 117. Chien-An Yen, **Jyh-Wei Lee**, Bih-Show Lou, 2019, "Effect of bipolar pulsed parameters on the microstructure and corrosion resistance of AZ31 magnesium alloys treated by plasma electrolytic oxidation", 12th International Conference on Plasma-Nano Technology & Science, (March 17-21, 2019, Nagoya, Japan)
 118. **Jyh-Wei Lee**, 2019, "Target poisoning effects on the mechanical and electrical properties of TiN coatings grown by a superimposed HiPIMS and MF deposition system", TechCon 2019 (April 27- May 2, 2019, Long Beach, California, USA)

119. Yen-Yu Chen, Sheng-Bo Hung, Chaur-Jeng Wang, Wen-Chung Wei, **Jyh-Wei Lee**, 2019, "High Temperature Electrical Conductivity and Oxidation Resistance of V-Nb-Mo-Ta-W High Entropy Alloy Thin Films", 2019 ICMCTF conference, (May 19-24, 2019, San Diego, California, USA)
120. **Jyh-Wei Lee**, Bih-Show Lou, Yung-Chin Yang, Chun-Pin Lin, 2019, "Recent Development of Biocompatible Thin Film Metallic Glass Materials", 2019 ICMCTF conference, (May 19-24, 2019, San Diego, California, USA) (**Invited Speaker**)
121. Sheng-Bo Hung, Chaur-Jeng Wang, **Jyh-Wei Lee**, 2019, "Thermal Property Evaluation of V-Nb-Mo-Ta-W and V-Nb-Mo-Ta-W-Cr-B High-entropy Alloy Thin Films", 2019 ICMCTF conference, (May 19-24, 2019, San Diego, California, USA)
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