（A）Journal Publications

1. \*W.Y. Chen, J.S. Lee, T.C. An, A. Matthews, “A Remote Atmospheric Pressure Plasma-Assisted Textile Functionalization Process on Polymeric Scaffolds for Bone Tissue Engineering”, Accepted by *Thin Solid Films*, 2023.
2. \*W.Y. Chen, A. Matthews, F.R. Jones, K.S. Chen, “Immobilization of Carboxylic Acid Groups on Polymeric Substrates by Plasma-enhanced Chemical Vapor or Atmospheric Pressure Plasma Deposition of Acetic Acid”, *Thin Solid Films*, Vol. 666, 30 Nov. 2018, pp. 54-60 (2018) DOI: 10.1016/j.tsf.2018.07.051. (IF: 2.183)
3. \*W.Y. Chen, A. Matthews, F.R. Jones, K.S. Chen, “Deposition of a stable and high concentration of carboxylic acid functional groups onto a silicon surface via a tailored remote atmospheric pressure plasma process”, *Surf. Coat. Technol.*, 336 (2018) 67-71. DOI: 10.1016/j.surfcoat.2017.09.057. (IF: 4.158)
4. K.C. Yang, C.C. Wu, \*W.Y. Chen, S. Sumi, T.L. Huang, “l-Glutathione enhances antioxidant capacity of hyaluronic acid and modulates expression of pro-inflammatory cytokines in human fibroblast-like synoviocytes”, *J Biomed Mater Res Part A*, 104A (2016) 2071– 2079. DOI: 10.1002/jbm.a.35729. (IF: 4.854)
5. S.C. Liao, K.S. Chen, \*W.Y. Chen, C.Y. Chou, K.C. Wai, “Surface Graft Polymerization of Acrylamide onto Plasma Activated Nylon Microfiber Artificial Leather for Improving Dyeing Properties”, *Int. J. Chem. Eng. Appl.*, (2013) Vol.4 (2): 78-81. DOI: 10.7763/IJCEA.2013.V4.267. (EI)
6. K.S. Chen, S.C. Liao, S.H. Tsao, N. Inagaki, H.M. Wu, \*W.Y. Chen, “Deposition of Tetramethylsilane on the Glass by Plasma-enhanced Chemical Vapor Deposition and Atmospheric Pressure Plasma Treatment”, *Surf. Coat. Technol.*, 228(2013) 33-36. DOI: 10.1016/j.surfcoat.2012.09.032. (IF: 4.158)
7. K.S. Chen, S.C. Liao, S.W. Lin, S.H. Tsao, H.T. Tsai, N. Inagaki, H.M. Wu, \*W.Y. Chen, “The Film Deposition via Atmospheric Pressure Plasma from Ethanol and He mixing Gases”, *Surf. Coat. Technol.*, 231 (2013) 408-411. DOI: 10.1016/j.surfcoat.2012.06.064. (IF: 4.158)
8. K.S. Chen, S.C. Liao, S.W. Lin, T.S. Hung, S.H. Tsao, H.M. Wu, N. Inagaki, \*W.Y. Chen, “Improvement of Thermoplastic Polyurethane Nonwoven Hydrophilicity by Atmospheric Pressure Plasma Treatment with He and N2 Mixed Gases”, *Jpn. J. Appl. Phys.*, 51, 1 (2012) 01AJ06-01-AJ06-3. DOI: 10.1143/JJAP.51.01AJ06. (IF: 1.480)
9. K.S. Chen, \*W.Y. Chen, S.C. Liao, Y.T. Haung, S.C. Chen, H.R. Lin, F.H. Lin, “Surface Graft Polymerization Acrylic Acid onto Bamboo Charcoal and to Improve Ammonia Adsorption”, *Desalin. Water Treat.*, 17 (2010) 168–175. DOI:10.5004/dwt.2010.1714. (IF: 1.254)
10. K.S. Chen, P.Y. Liu, T.S. Hung, S.C. Liao, S.C. Chen, H.R. Lin, \*W.Y. Chen, C.K. Feng, “Preparation of Titanium Oxide-containing Organic Film by Dipping Ti(OR)4 and Cold Plasma Oxidizing on PET”, *Appl. Surf. Sci*., 256 (2009) 1101~5. DOI: 10.1016/j.apsusc.2009.05.170. (IF: 6.707)

（B）Conference Paper List

1. \*W.Y. Chen, J.S. Lee, T.C. An, A. Matthews, “*A Remote Atmospheric Pressure Plasma-Assisted Textile Functionalization Process on Polymeric Scaffolds for Bone Tissue Engineering*”, Accepted and to be presented at International Conference on Metallurgical Coatings and Thin Films (ICMCTF), May. 21 - 26, 2023. (San Diego, USA)
2. \*W.Y. Chen, A. Matthews, F.R. Jones, K.S. Chen, “Immobilization of Carboxylic Acid Groups on Polymeric Substrates by Plasma-enhanced Chemical Vapor or Atmospheric Pressure Plasma Deposition of Acetic Acid”, International Conference on Metallurgical Coatings and Thin Films (ICMCTF), Apr. 23 - 27, 2018. (San Diego, USA)
3. I.Y. Cheng, \*W.Y. Chen, A. Matthews, K.S. Chen, “Surface Treatment of Polymers by Atmospheric Plasma and Graft Polymerization of Acrylic Acid to Improve Hydroxyapatite Deposition”, European Congress and Exhibition on Advanced Materials and Processes (Euromat), Sept. 17 - 22, 2017. (Thessaloniki, Greece)
4. \*W.Y. Chen, A. Matthews, F.R. Jones, K.S. Chen, “Deposition of Stable and High Concentration of Carboxylic Acid Functional Groups onto Silicon Surface via a Tailored Remote Atmospheric Pressure Plasma Process”, SVC Annual Technical Conference, Apr. 29 - May. 4, 2017. (Providence, USA)
5. \*W.Y. Chen, A. Matthews, F.R. Jones, “Deposition of Acrylic Acid on Argon or Air Atmospheric Pressure Plasma Treated Silicon using a Novel Chamber Design”, International Conference on Metallurgical Coatings and Thin Films (ICMCTF), Apr. 23 - 27, 2017. (San Diego, USA)
6. \*W.Y. Chen, A. Matthews, K.S. Chen, W.Y. Chen, Y.H. Lee, C.C. Chen, H.R. Lin, “Improvement of Hydroxyapatite Deposition onto Bamboo Charcoal and PLLA using Cold Plasma Processes Pretreatment”, International Conference on Research and Applications of Plasmas, Sept. 7 -11, 2015. (Warsaw, Poland)
7. \*W.Y. Chen, A. Matthews, F.R. Jones, K.S. Chen, “Effect of Relative Inlet Flow Location of Monomer and Oxygen Gases in a System with a Rotatable Substrate Table for Deposition of Plasma Polymer Multilayers”, International Conference on Plasma Surface Engineering, Sept. 15 - 19, 2014. (Garmisch-Partenkirchen, Germany)
8. S.C. Liao, K.S. Chen, \*W.Y. Chen, C.Y. Chou, K.C. Wai, “Surface Graft Polymerization of Acrylamide onto Plasma Activated Nylon Microfiber Artificial Leather for Improving Dyeing Properties”, International Conference on Chemistry and Chemical Process, pp4-5, Apr. 21-22, 2013. (Beijing, China)
9. K.S. Chen, S.C. Liao, \*W.Y. Chen, “Post Treatments of Plasma Polymers as Interlayers for Creating Functional Surface”, International Workshop on Functional Polymer Surface and Interface, pp.5, Mar. 19, 2013. (Ishikawa, JAIST)
10. K.S. Chen, S.C. Liao, C.Y. Guo, H.Y. Lin, \*W.Y. Chen, “Post Treatments of Plasma Polymers for Creating Functional Surface on Fibers”, International Symposium on Advanced Fiber/Textile Science and Technology 2013, pp.6-10, Mar.18, 2013. (Fukui, Japan)
11. K.S. Chen, S.C. Liao, H.M. Wu, Y.W. Hsu, S.W. Lin, \*W.Y. Chen, “Multi-layer Organic Optical Films Preparing by Multifunctional Cold Plasma”, Applied in ISplasma 2012. (Nagoya, Japan)
12. K.S. Chen, P.Y. Liu, S.C. Chen, \*W.Y. Chen, F.H. Lin, “Preparation of Titanium Oxide-containing Organic Film by Dipping Ti(OR)4 and Cold Plasma Oxidizing on PET”, 4th Vacuum and Surface Sciences Conference of Asia and Australia Poster Session Program, Oct. 28, 2008. (Matsue, Japan)