

Ming-Chen Wang

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Ph.D., Chung Yuan Christian University

Assistant professor, Department of Biomedical Engineering

Plasma technology, Mechanics of biomaterials, Plasma sterilization technology, Surface modification and analysis technology of materials



◆ Research Interests

- ◆ Dr. Ming-Chen Wang is an assistant professor in the biomaterials and biomechanics area of the Biomedical Engineering Department. Courses taught include surface modification and analysis technology, plasma technology, mechanics, plasma sterilization technology. Ming-Chen Wang's research interests are biofunctional modification of surface, plasma sterilization technology and assistive technology. Research topics include (1) to design and develop the atmospheric pressure plasma apparatus, (2) to explore the result and mechanism of plasma sterilization, (3) to study the biofunctional modification of surface, and (4) to design and develop the assistive technology.

◆ Selected Publications

- ◆ Yu-Chang Tyan, Ming-Hui Yang, Tze-Wen Chung, Wen-Cheng Chen, Ming-Chen Wang, Yi-Ling Chen, Shu-Ling Huang, Ying-Fong Huang, Shiang-Bin Jong, "Characterization of surface modification on self-assembled monolayer-based piezoelectric crystal immunosensor for the quantification of serum α -fetoprotein", J Mater Sci: Mater Med, Vol. 22, 1383–1391, 2011. (IF: 2.325)
- ◆ Po-Hsiang Tsui, Yung-Liang Wan, Chih-Chung Huang and Ming-Chen Wang, "Effect of Adaptive Threshold Filtering on Ultrasonic Nakagami Parameter to Detect Variation in Scatterer Concentration", Ultrasonic Imaging, Vol. 32, 229-242, 2010. (IF: 0.618)
- ◆ Y-T. Wu, J-D. Liao, C.-C. Weng, Y.-T. Hesieh, C.-H. Chen, M.-C. Wang and M. Zharnikov, "Alkanethiolate Self-Assembled Monolayers As a Negative or Positive Resist for Electron Lithography", Journal Physical Chemistry: C, Vol. 113, 4543–4548, 2009. (IF: 4.224,)
- ◆ M. H. Yang, Y. C. Tyan*, S. B. Jong, Y. F. Huang, P. C. Liao, M. C. Wang, "Identification of human hepatocellular carcinoma-related proteins by proteomic approach." Analytical & Bioanalytical Chemistry, Vol. 388, 637-643, April, 2007. (IF: 3.480)
- ◆ Y. T. Wu, J. D. Liao*, C. C. Weng, C. H. Chen, M. C. Wang and M. Zharnikov, "Microcontact printing pattern as a mask for chemical etching: A scanning photoelectron microscopy study", The Journal of Vacuum Science and Technology B, Vol. 25, No. 5, 1729-1736, Sep/Oct 2007. (IF: 1.460).

◆ Recent Research Projects

- ◆ National Science Council, the Industry-University Cooperation Program : Graph presentation for relief from tension and stress by massage chairs