

## บรรณานุกรม

- จิตรดิเวช, จิราวัลย์. (2552). การวางแผนและการวิเคราะห์การทดลอง (Vol. 1): โครงการส่งเสริมและพัฒนาเอกสารวิชาการ สถาบันบัณฑิตพัฒนบริหารศาสตร์.
- ชุดima, ปราเมศ. (2545). การออกแบบการทดลองทางวิศวกรรม. สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย: สูญเสียหนังสือแห่งจุฬาลงกรณ์มหาวิทยาลัย.
- บุญญาวรรณ, ธีรวรรณ. (2546). สมบัติมูลฐานของพลาสma สมบัติมูลฐานของพลาสma. มหาวิทยาลัยเชียงใหม่: มหาวิทยาลัยเชียงใหม่.
- พุ่mgrะจั่ง, นายสันติ. (2552). การวิเคราะห์ทางสถิติสำหรับพื้นผิวตอบสนองคู่ของกระบวนการติดหัวอ่านาร์ดิสก์ไครร์ฟ. (วิศวกรรมศาสตรมหาบัณฑิต), คณะวิศวกรรมศาสตร์ มหาวิทยาลัยธรรมศาสตร์.
- ฟองเงียว, ศิริพร. (2555). การหาเงื่อนไขที่เหมาะสมในกระบวนการขึ้นรูปผลิตภัณฑ์โดยใช้เทคนิคการออกแบบการทดลองแบบส่วนประสมกลาง. มหาวิทยาลัยเชียงใหม่, บัณฑิตวิทยาลัย มหาวิทยาลัยเชียงใหม่.
- ม้วนโก๊กสูง, สมชาย. (2553). (มหาวิทยาลัยเชียงใหม่. บัณฑิตวิทยาลัย;มหาวิทยาลัยเชียงใหม่. สาขาวิชาวิศวกรรมอุตสาหการ, มหาวิทยาลัยเชียงใหม่. 72 แผ่น
- ยกถ้าน, สุทธศน. (2013). Ignaz Semmelweisแพทย์ผู้บุกเบิกมาตรฐานความสะอาดในการผ่าตัด. *EAU Heritage Journal: Science and Technology*, 7 No.2 (July-December), 1-6.
- สนธิไชย, วันชัย. (2552). คู่มือปฏิบัติการจุลชีววิทยา (Vol. 1). สาขาวิชาจุลชีววิทยา ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่.
- Adler, S., Scherrer, M., & Daschner, F. D. (1998). Costs of low-temperature plasma sterilization compared with other sterilization methods. *Journal of Hospital Infection*, 40(2), 125-134.
- Akitsu, T., Ohkawa, H., Tsuji, M., Kimura, H., & Kogoma, M. (2005). Plasma sterilization using glow discharge at atmospheric pressure. *Surface and Coatings Technology*, 193(1-3), 29-34.
- Alfa, M. J., DeGagne, P., Olson, N., & Puchalski, T. (1996). Comparison of ion plasma, vaporized hydrogen peroxide, and 100% ethylene oxide sterilizers to the 12/88 ethylene oxide gas sterilizer. *Infection Control and Hospital Epidemiology*, 17(2), 92-100.

- Astumian, R.D., & Robertson, B. (1989). Nonlinear effect of an oscillating electricfield on membrane-proteins. *Journal of Chemical Physics*, 91(8), 4891-4901.
- Baier, M., Görgen, M., Ehlbeck, J., Knorr, D., Herppich, W. B., & Schlueter, O. (2014). Non-thermal atmospheric pressure plasma: Screening for gentle process conditions and antibacterial efficiency on perishable fresh produce. *Innovative Food Science & Emerging Technologies*, 22(0), 147-157.
- Bayliss, D. L., Walsh, J. L., Iza, F., Shama, G., Holah, J., & Kong, M. G. (2012). - Complex Responses of Microorganisms as a Community to a Flowing Atmospheric Plasma. - 9(- 6), - 611.
- Bermúdez-Aguirre, D., Wemlinger, E., Pedrow, P., Barbosa-Cánovas, G., & Garcia-Perez, M. (2013). Effect of atmospheric pressure cold plasma (APCP) on the inactivation of Escherichia coli in fresh produce. *Food Control*, 34(1), 149-157.
- Bogaerts, A. (2009). Effects of oxygen addition to argon glow discharges: A hybrid Monte Carlo-fluid modeling investigation. *Spectrochimica Acta Part B: Atomic Spectroscopy*, 64(11-12), 1266-1279.
- Boscariol, M. R., Moreira, A. J., Mansano, R. D., Kikuchi, I. S., & Pinto, T. J. A. (2008). Sterilization by pure oxygen plasma and by oxygen-hydrogen peroxide plasma: An efficacy study. *International Journal of Pharmaceutics*, 353(1-2), 170-175.
- Chanson, R., Rhallabi, A., Fernandez, M. C., Cardinaud, C., Bouchoule, S., Gatilova, L., & Talneau, A. (2012). Global model of Cl 2/Ar high-density plasma discharge and 2-D monte-carlo etching model of InP. *IEEE Transactions on Plasma Science*, 40(4), 959-971. doi:10.1109/TPS.2012.2183391
- Chau, T. T., Kao, K. C., Blank, G., & Madrid, F. (1996). Microwave plasmas for low-temperature dry sterilization. *Biomaterials*, 17(13), 1273-1277.
- Choi, J. H., Han, I., Baik, H. K., Lee, M. H., Han, D.-W., Park, J.-C., Lim, Y. S. (2006). Analysis of sterilization effect by pulsed dielectric barrier discharge. *Journal of Electrostatics*, 64(1), 17-22.
- Chu, N. S., Chan-Myers, H., Ghazanfari, N., & Antonoplos, P. (1999). Levels of naturally occurring microorganisms on surgical instruments after clinical use and after washing. *American Journal of Infection Control*, 27(4), 315-319.

- Colagar, A. H., Sohbatzadeh, F., Mirzanejhad, S., & Omran, A. V. (2010). Sterilization of streptococcus pyogenes by afterglow dielectric barrier discharge using o<sub>2</sub> and co<sub>2</sub> working gases. *Biochemical Engineering Journal*, 51(3), 189-193.
- Critzer, F. J., Kelly-Wintenberg, K., South, S. L. & Golden, D. A. (2007). Atmospheric plasma inactivation of foodborne pathogens on fresh produce surfaces, *Journal of Food Protection*, vol. 70, no. 10, pp. 2290-6.
- Duday D, Clément F, Lecoq E, Penny C, Audinot J, Belmonte T, Kutasi K, Cauchie H, Choquet P., (2013). Study of Reactive Oxygen or/and Nitrogen Species Binding Processes on E. coli Bacteria with Mass Spectrometry Isotopic Nanoimaging. *Plasma Processes and Polymers*, 10(10). 864-879.
- Eto, H., Ono, Y., Ogino, A., & Nagatsu, M. (2008). Low-temperature sterilization of wrapped materials using flexible sheet-type dielectric barrier discharge, *Applied Physics Letters*, 93(22).
- Fridman, G., Peddinghaus, M., Balasubramanian, M., Ayan, H., Fridman, A., Gutsol, A., & Brooks, A.(2006). Blood Coagulation and Living Tissue Sterilization by Floating-Electrode Dielectric Barrier Discharge in Air. 26( 4).
- Fernández, A., Shearer, N., Wilson, D. R., & Thompson, A. (2012). Effect of microbial loading on the efficiency of cold atmospheric gas plasma inactivation of *Salmonella enterica* serovar Typhimurium. *International Journal of Food Microbiology*, 152(3), 175-180.
- Fernández, A., & Thompson, A. (2012). The inactivation of *Salmonella* by cold atmospheric plasma treatment. *Food Research International*, 45(2), 678-684.
- Gilliland, F. R. a. O. K. a. H. R. a. M. H. a. D. (2009). Low pressure plasma discharges for the sterilization and decontamination of surfaces. *New Journal of Physics*, 11(11), 115017.
- Guo, J., Huang, K., & Wang, J. (2015). Bactericidal effect of various non-thermal plasma agents and the influence of experimental conditions in microbial inactivation: A review. *Food Control*, 50, 482-490.
- Heise, M., Neff, W., Franken, O., Muranyi, P., & Wunderlich, J. (2004). Sterilization of Polymer Foils with Dielectric Barrier Discharges at Atmospheric Pressure. 9(1).
- Helmke, A., Hoffmeister, D., Berge, F., Emmert, S., Laspe, P., Mertens, N., Vioel, W., & Weltmann, K. D. (2011). Physical and microbiological characterisation of *Staphylococcus*

- epidermidis* inactivation by dielectric barrier discharge plasma. *Plasma Processes and Polymers*, 8(4), 278-286.
- Heuer, K., Hoffmanns, M. A., Demir, E., Baldus, S., Volkmar, C. M., Röhle, M., Opländer, C. (2015). The topical use of non-thermal dielectric barrier discharge (DBD): Nitric oxide related effects on human skin. *Nitric Oxide*, 44(0), 52-60.
- Holmes, S., & Walker, J. T. (2014). 20 - An overview of current decontamination practices of surgical instruments and medical devices *Decontamination in Hospitals and Healthcare* (pp. 503-547): Woodhead Publishing.
- Hsu, C. C., Nierode, M. A., Coburn, J. W., & Graves, D. B. (2006). Comparison of model and experiment for Ar, Ar/O<sub>2</sub> and Ar/O<sub>2</sub>/Cl<sub>2</sub> inductively coupled plasmas. *Journal of Physics D: Applied Physics*, 39(15), 3272-3284.
- Jayasena, D. D., Kim, H. J., Yong, H. I., Park, S., Kim, K., Choe, W., & Jo, C. (2015). Flexible thin-layer dielectric barrier discharge plasma treatment of pork butt and beef loin: Effects on pathogen inactivation and meat-quality attributes. *Food Microbiology*, 46(0), 51-57.
- J. E. Sansonetti, W. C. Martin. (2005). *Handbook of Basic Atomic Spectroscopic Data*. In 4 (Series Ed.) Vol. 34.
- Joshi, S.G., Cooper, M., Yost, A., Paff, M., Ercan, U.K., Fridman, G., Friedman, G., Friedman, A. et al. (2011). Nonthermal dielectric-barrier discharge plasma-induced inactivation involves oxidative DNA damage and membrane lipid peroxidation in *Escherichia coli*. *Antimicrob Agents Chemother*, 55, 1053–1062
- Kang, J. G., Kim, H. S., Ahn, S. W., & Uhm, H. S. (2003). Development of the RF plasma source at atmospheric pressure. *Surface and Coatings Technology*, 171(1–3), 144-148.
- Kim, J. E., Lee, D.-U., & Min, S. C. (2014). Microbial decontamination of red pepper powder by cold plasma. *Food Microbiology*, 38(0), 128-136.
- Kim, H.-J., Yong, H. I., Park, S., Kim, K., Choe, W., & Jo, C. (2015). Microbial safety and quality attributes of milk following treatment with atmospheric pressure encapsulated dielectric barrier discharge plasma. *Food Control*, 47(0), 451-456.
- Kitazaki, S., Tanaka, A., & Hayashi, N. (2014). Sterilization of narrow tube inner surface using discharge plasma, ozone, and UV light irradiation. *Vacuum*, 110, 217-220.

- Kostov, K. G., Rocha, V., Koga-Ito, C. Y., Matos, B. M., Algatti, M. A., Honda, R. Y., Mota, R. P. (2010). Bacterial sterilization by a dielectric barrier discharge (DBD) in air. *Surface and Coatings Technology*, 204(18–19), 2954-2959.
- Laroussi, M., & Leipold, F. (2004). Evaluation of the roles of reactive species, heat, and UV radiation in the inactivation of bacterial cells by air plasmas at atmospheric pressure. *International Journal of Mass Spectrometry*, 233(1–3), 81-86.
- Lee, C., & Lieberman, M. A. (1995). Global model of Ar, O<sub>2</sub>, Cl<sub>2</sub>, and Ar/O<sub>2</sub> high-density plasma discharges. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, 13(2), 368-380. doi:10.1116/1.579366
- Liu, H., Chen, J., Yang, L., & Zhou, Y. (2008). Long-distance oxygen plasma sterilization: Effects and mechanisms. *Applied Surface Science*, 254(6), 1815-1821.
- Lu, H., Patil, S., Keener, K. M., Cullen, P. J., & Bourke, P. (2014). Bacterial inactivation by high-voltage atmospheric cold plasma influence of process parameters and effects on cell leakage and DNA, *Journal of Applied Microbiology Volume 116 , Issue 4 . Journal of Applied Microbiology*, 116(4), 784-794.
- MacFie, J. (2013). Surgical sepsis. *British Journal of Surgery*, 100(S6), S36–S39.
- Maeda, Y., Igura, N., Shimoda, M., & Hayakawa, I. (2003). Bactericidal effect of atmospheric gas plasma on Escherichia coli K12. 38( 8), 892.
- Mai-Prochnow, A., Murphy, A. B., McLean, K. M., Kong, M. G., & Ostrikov, K. (2014). Atmospheric pressure plasmas: Infection control and bacterial responses. *International Journal of Antimicrobial Agents*, 43(6), 508-517.
- Miao, H., & Yun, G. (2011). The sterilization of Escherichia coli by dielectric-barrier discharge plasma at atmospheric pressure. *Applied Surface Science*, 257(16), 7065-7070.
- Moisan, M., Barbeau, J., Moreau, S., Pelletier, J., Tabrizian, M., & Yahia, L. H. (2001). Low-temperature sterilization using gas plasmas: a review of the experiments and an analysis of the inactivation mechanisms. *International Journal of Pharmaceutics*, 226(1–2), 1-21.
- Moreau, M., Orange, N., & Feuilloley, M. G. J. (2008). Non-thermal plasma technologies: New tools for bio-decontamination. *Biotechnology Advances*, 26(6), 610-617.
- Moreira, A. J., Mansano, R. D., Andreoli Pinto, T. d. J., Ruas, R., Zambon, L. d. S., da Silva, M. V., & Verdonck, P. B. (2004). Sterilization by oxygen plasma. *Applied Surface Science*, 235(1–2), 151-155.

- Muranyi, P., Wunderlich, J., & Heise, M. (2007). Sterilization efficiency of a cascaded dielectric barrier discharge. *Journal of Applied Microbiology*.
- Nanbu, K., Mitsui, K., & Kondo, S. (2000). Self-consistent particle modelling of dc magnetron discharges of an O<sub>2</sub>/Ar mixture. *Journal of Physics D: Applied Physics*, 33(18), 2274-2283.
- O'Connor, N., Cahill, O., Daniels, S., Galvin, S., & Humphreys, H. (2014). Cold atmospheric pressure plasma and decontamination. Can it contribute to preventing hospital-acquired infections? *Journal of Hospital Infection*, 88(2), 59-65.
- Okazaki, S. K. a. M. K. a. T. M. a. S. (1988). Stable glow plasma at atmospheric pressure. *Journal of Physics D: Applied Physics*, 21(5), 838.
- Pankaj, S. K., Bueno-Ferrer, C., Misra, N. N., Milosavljević, V., O'Donnell, C. P., Bourke, P., Cullen, P. J. (2014). Applications of cold plasma technology in food packaging. *Trends in Food Science & Technology*, 35(1), 5-17.
- Payling, R., & Larkins, P. (2000). *Optical Emission Lines of the Elements*.
- Rezaei, F., Shokri, B., & Sharifian, M. (2016). Atmospheric-pressure DBD plasma-assisted surface modification of polymethyl methacrylate: A study on cell growth/proliferation and antibacterial properties. *Applied Surface Science*, 360, Part B, 641-651.
- Rød, S. K., Hansen, F., Leipold, F., & Knøchel, S. (2012). Cold atmospheric pressure plasma treatment of ready-to-eat meat: Inactivation of *Listeria innocua* and changes in product quality. *Food Microbiology*, 30(1), 233-238.
- Rutala, W. A., Gergen, M. F., Jones, J. F., & Weber, D. J. (1998). Levels of microbial contamination on surgical instruments. *American Journal of Infection Control*, 26(2), 143-145.
- Rutala, W. A., & Weber, D. J. (2013). Disinfection and sterilization: An overview. *American Journal of Infection Control*, 41(5, Supplement), S2-S5.
- Scholtz, V., Pazlarová, J., Soušková, H., Khun, J., & Julák, J. Nonthermal plasma — A tool for decontamination and disinfection. *Biotechnology Advances*(0).
- Sharma, V. K., Johnson, N., Cizmas, L., McDonald, T. J., & Kim, H. (2016). A review of the influence of treatment strategies on antibiotic resistant bacteria and antibiotic resistance genes. *Chemosphere*, 150, 702-714.

- Shimizu, S., Barczyk, S., Rettberg, P., Shimizu, T., Klaempfl, T., Zimmermann, J. L., Thomas, H. M. (2014). Cold atmospheric plasma – A new technology for spacecraft component decontamination. *Planetary and Space Science*, 90(0), 60-71.
- Sterilization of medical devices — Microbiological methods — Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process. (ISO 11737-2:2009). (Vol. ISO 11737-2:2009).
- Uhm, H. S., Lim, J. P., & Li, S. Z. (2007). Sterilization of bacterial endospores by an atmospheric-pressure argon plasma jet. *Applied Physics Letters*, 90(26).
- van Doornmalen, J., & Kopringa, K. (2008). Review of surface steam sterilization for validation purposes. *American Journal of Infection Control*, 36(2), 86-92.
- von Keudell, A., Awakowicz, P., Benedikt, J., Raballand, V., Yanguas-Gil, A., Opretzka, J., Deslys, J. P. (2010). Inactivation of Bacteria and Biomolecules by Low-Pressure Plasma Discharges. 7(3-4), 352.
- Whittaker, A. G., Graham, E. M., Baxter, R. L., Jones, A. C., Richardson, P. R., Meek, G., Baxter, H. C. (2004). Plasma cleaning of dental instruments. *Journal of Hospital Infection*, 56(1), 37-41.
- Wilson, A. J., & Nayak, S. (2013). Disinfection, sterilization and disposables. *Anaesthesia & Intensive Care Medicine*, 14(10), 423-427.
- Yang, L., Chen, J., Gao, J., & Guo, Y. (2009). Plasma sterilization using the RF glow discharge. *Applied Surface Science*, 255(22), 8960-8964.
- Yusupov, M., Bogaerts, A., Huygh, S., Snoeckx, R., van Duin, A. C. T., & Neyts, E. C. (2013). Plasma-induced destruction of bacterial cell wall components: a reactive molecular dynamics simulation. *Journal of Physical Chemistry C*, 117(11), 5993e5998.
- Zhang, C., Shao, T., Yu, Y., Niu, Z., Yan, P., & Zhou, Y. (2010). Comparison of experiment and simulation on dielectric barrier discharge driven by 50 Hz AC power in atmospheric air. *Journal of Electrostatics*, 68(5), 445-452.
- Zhang, J., Sun, J., Wang, D., & Wang, X. (2006). A novel cold plasma jet generated by atmospheric dielectric barrier capillary discharge. *Thin Solid Films*, 506–507(0), 404-408.

Zhang, M., Oh, J. K., Cisneros-Zevallos, L., & Akbulut, M. (2013). Bactericidal effects of nonthermal low-pressure oxygen plasma on *S. typhimurium* LT2 attached to fresh produce surfaces. *Journal of Food Engineering*, 119(3), 425-432.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright© by Chiang Mai University  
All rights reserved