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## (A) 學術期刊論文 (Refereed Papers)

- 張鎮南、馬英石、「飲用水中丙酮基被次氯酸鈉氧化生成消毒副產物之探討」、 中國環工學刊,第 5(4)卷,民國 84 年,327-338 頁。
- Lin, J. G., Chang, C. N., Wu, J. R. and Ma, Y. S., "Enhancement of decomposition of 2-chlorophenol with ultrasound/H2O2 process.," Wat. Sci. Tech., Vol. 34(9), 1996, 41-48.
- 3. 張鎮南、馬英石,「丙酮被次氯酸鈉氧化生成消毒副產物之反應動力模式探討」,中國環境保護會誌,第 19(1)卷,民國 85 年,60-72 頁。
- 4. Liu, C.-H., Ma, Y.-S. and Lin, J.-G., "Efficiency evaluation of PTA wastewater treatment with the ultrasound/H2O2 process. Water pollution IV, Modelling, Measuring and Prediction, R. Rajar and C. A. Brebbia, eds." *Computational Mechanics Publications, Southampton, UK*, 1997, 767-776.
- 5. 張鎮南、馬英石,「台灣飲用水源加氯生成消毒副產物之研究」,自來水會刊, 第 16(3)卷,民國 86 年,7-34 頁。
- 6. 林志高、馬英石,「超音波技術處理危害性有機物之研究」,工業污染防治, 第 62 卷,民國 86 年,79-99 頁。
- 7. Ma, Y. S. and Lin, J. G., "Removal of 2-chlorophenol from wastewater using the ultrasonic/Fenton process.," *Journal of the Chinese Institute of Environmental Engineering*, Vol. 8(3), 1998, 215-226.
- 8. Lin, J. G., Hsu, S. L. and Ma, Y. S., "Use of pH and redox potential to monitor and to control solubilization of waste activated sludge.," *Journal of the Chinese Institute of Environmental Engineering*, Vol. 8(1), 1998, 43-52.
- 9. Lin, J. G., Ma, Y. S. and Wu, J. R., "2-Chlorophenol oxidation by ultrasound/H2O2 in aqueous solution: models and kinetics.," *Proc. Natl. Sci. Counc. ROC(A)*, Vol. 22(5), 1998, 660-669.
- 10. Lin, J. G., Ma, Y. S. and Huang, C. C., "Alkaline hydrolysis of the sludge generated from a high-strength, nitrogenous-wastewater biological-treatment process." *Bioresource Technology*, Vol. 65, 1998, 35-42.
- 11. Lin, J. G., Ma, Y. S. and Huang, C. C., "Alkaline hydrolysis of the sludge generated from a high-strength, nitrogenous-wastewater biological-treatment process." *Bioresource Technology*, Vol. 65, 1998, 35-42.
- 12. Ma, Y. S. and Lin, J.-G., "Effect of pre-sonication on removal of organic matters resulting from chlorination of humic acid.," *Wat. Sci. Tech.*, Vol. 38(6), 1998, 253-260.
- 13. Lin, J. G., Ma, Y. S., Chao, A. C. and Huang, C.-L., "BMP test on chemically

- pretreated sludge.," Bioresource Technology, Vol. 68(2), 1999, 187-192.
- 14. Lin, J. G. and Ma, Y. S., "Magnitude of effect of reaction parameters on2-chlorophenol decomposition by ultrasonic process.," *Journal of Hazardous Materials B*, Vol. 66, 1999, 291-305.
- 15. Ma, Y. S., Huang S. T. and Lin J. G., "Degradation of 4-nitrophenol using the Fenton process.," Wat. Sci. Tech., Vol. 42(3-4), 2000, 155–160.
- 16. Ma, Y. S., Huang, S. T. and Lin, J. G., "Application of Fenton process on the decomposition of 4-nitrophenol.," *Journal of the Chinese Institute of Environmental Engineering*, Vol. 10(3), 2000, 185-191.
- 17. Chang, C. N., Ma, Y. S., Fang, G. C. and Zing, F. F., "Characterization and isolation of natural organic matters from a eutrophic reservoir.," *Journal of Water Services Research and Technology-AQUA*, Vol. 49(5), 2000, 269-280.
- 18. Lin, J. G. and Ma, Y. S., "Oxidation of 2-chlorophenol in water by an ultrasound/Fenton method.," *Journal of Environmental Engineering*, Vol. 126(2), 2000, 130-137.
- 19. Chang, C. N., Ma, Y.-S. and Zing, F.-F., "Reducing the formation of disinfection by-products by preozonation.," *Chemosphere*, Vol. 46, 2001, 21-30.
- 20. Ma, Y. S., Chang, C.-N., Chiu, C.-C. and Ho, C.-P., "Apply biological filtration process to recovery secondary-treated wastewater.," 親民學報, Vol. 第六期, 2002, 25-32.
- 21. Chang, C. N., Ma, Y.-S., Ho, C.-P., Chen, Y.-R and Allen Chao, "Reclamation of wastewater by sequencing batch membrane bioreactor (SBMBR).," *Journal of the Chinese Institute of Environmental Engineering*, Vol. 12(4), 2002, 295-305.
- 22. Chang, C. N., Ma, Y.-S. and Lo, C.-W., "Application of oxidation-reduction potential as an controlling parameter in waste activated sludge hydrolysis.," *J. of Chemical Engineering*, Vol. 90(3), 2002, 273-281.
- 23.謝育民、馬英石,「相間轉移催化技術介紹與應用-醚類合成之探討」,親民學報,第七期,民國 91 年,37-42 頁。
- 24. Chang, C. N., Ma, Y.-S., Fang, G-C., Chao, A.C., Tsai, M.-C. and Sung, H.-F., "Decoloring of lignin wastewater using the photochemical UV/TiO2 process.," *Chemosphere*, Vol. 56(10), 2004, 1011-1017.
- 25. Ma, Y. S., "Reaction mechanisms for DBPS reduction in humic acid ozonation.," *Ozone-Sci Eng*, Vol. 26(2), 2004, 153-164.
- 26. 馬英石、謝育民,「氧化還原電位作為廢水超音波處理效率指標之可行性研究」,親民學報,第十一期,民國 94 年 7 月,167-175 頁。
- 27. 馬英石、林志高,「超音波程序分解鄰氯酚之反應速率探討」,量測資訊,民國 96 年 7 月,28-33 頁。

- 28. Ma, Ying-Shih, Chang, C.-N., Chiang, Y.-P., Sung, H.-F., Chao, A. C., "Photocatalytic Degradation of Lignin Using TiO2 or Pt/TiO2 as the Catalyst," Chemosphere, Vol. 71, 2008, 3, pp. 998-1004.
- 29. Chiang, Yen-Pei, Ma, Ying-Shih, Chiang, Chia-Ling, Liu, Chie-Li, Chang, Cheng-Nan, "Apply TiO2-catalyzed UV system to decolor dispersed blue S-3RF wastewater," Environmental Engineering Science, Vol. 25, 2008, 8, pp. 557-564.
- 30. Ma, Ying-Shih, Kumar Mathava, Lin, Jih-Gaw, "Degradation of carbofuran-contaminated water by the Fenton process," Journal of Environmental Science and Health Part A, Vol. 44, 2009, 5, pp. 914-920.
- 31. Hsu, Hsiu-Feng, Mathava Kumar, Ma, Ying-Shih, Lin, Jin-Gaw, "Extent of Precipitation and Sorption During Copper Removal from Synthetic Wastewater in the Presence of Sulfate-Reducing Bacteria," Environmental Engineering Science, Vol. 26, 2009, 6, pp. 1087-1096.
- 32. Ma, Ying-Shih, Lin, Jih-Gaw, Kumar, Mathava, Sung, Chih-Fang, Yeh, Chin-Hsiang, Chang, Shih-Han, Hu, Chuan-Pin, "Study of the Decomposition in Carbofuran by Fenton and Ultrasonic Processes," Progress in Environmental Science and Technology, Vol. 2, 2009, 6, pp. 937-942.
- 33. Ma, Y.-S., Sung, C.-F., Lin, J.-G., "Degradation of carbofuran in aqueous solution by ultrasonic and Fenton processes: Effect of system parameters and kinetic study.,"Journal of Hazardous Materials, Vol. 178, 2010, 4, pp. 320-325.
- 34. Hsu, H.-F., Jhuo, Y.-S., Kumar M., Ma, Y.-S., Lin, J.-G., "Simultaneous sulfate reduction and copper removal by a PVA-immobilized sulfate reducing bacterial culture," Bioresource Technology, Vol. 101, 2010, 6, pp. 4354-4361.
- 35. Ma, Y.-S., Sung, C.-F., "Investigation of carbofuran degradation by a combination of ultrasound and Fenton process," Sustainable Environment Research, Vol. 20, 2010, 7, pp. 211-217.
- 36. Ma, Y.-S., Chang C.-N., "Investigation of applying PFOA in ozonation to decompose humic acids,"Ozone: Science & Engineering, Vol. 32, 2010, 7, pp. 265-273.
- 37. Lu, L.-A., Ma, Y.-S., Kumar, M., Lin, J.-G., "Influence of pH and H2O2 dosage on the decomposition of carbofuran by the photo-Fenton process.," Sustainable Environment Research, Vol. 20, 2010, 9, pp. 293-297.
- 38. Lu, L-A., Ma, Y.-S., Kumar, M., Lin, J.-G., "Photochemical degradation of carbofuran and elucidation of removal mechanism.," Chemical Engineering Journal, Vol. 166, 2011, 1, pp. 150-156.
- 39. Ma, Y.-S., "Improvement in carbofuran degradation by different Fenton's reagent dosing processes," Toxicology and Industrial Health, Vol. 27, 2011, 3, pp. 934-944.
- 40. Lu, L.-A., Ma, Y.-S., Kumar, M., Lin, J.-G., "Photo-Fenton pretreatment of

- carbofuran Analyses via experimental design, detoxification and biodegradability enhancement"Separation and Purification Technology, Vol. 81, 2011, 7, pp. 325-331.
- 41. Ma, Y.-S., Lin, J.-G., "Sono-alkalization pretreatment of sewage sludge containing phthalate acid esters," Journal of Environmental Science and Health, Part A, Vol. 46, 2011, 7, pp. 980-988.
- 42. Ma, Y.-S., Chang, C.-N., Chao C.-R., "Decolorisation of Rhodamine B dyeing wastewater by a photo-Fenton process: Effect of system parameters and kinetic study,"International Journal of Environment and Resource (IJER), Vol. 1, 2012, 11.
- 43. Ma, Y.-S., "Enhancement of biodegradability of ethylenediamine wastewater with sono-Fenton degradation (Accepted),"Journal of Water and Environment Technology, Vol. 10, 2012, 4, pp. 117-127.
- 44. Lu, L.-A., Ma, Y.-S., Daverey, A., Lin, J.-G., "Optimization of Photo-Fenton process parameters on carbofuran degradation using central composite design (Accepted),"Journal of Environmental Science and Health, Part B, Vol. 47, 2012, 4, pp. 553-561.
- 45. 馬英石、張鎮南、曹佳茹,「玫瑰紅染料廢水利用 Fenton 及 photo-Fenton 程序脫色處理之研究」,健康管理學刊,第 10 卷第 1 期,民國 101 年 6 月,46-56 頁。
- 46. Ma, Y.-S., "Short review: Current trends and future challenges in the application of sono-Fenton oxidation for wastewater treatment," Sustainable Environment Research, Vol. 22, 2012, 9, pp. 271-278.
- 47. <u>王繁慷</u>、劉宗翰,「連續加藥 Sono-Fenton 程序降解拉草之研究」,先進工程 學刊 (Journal of Advanced Engineering),第 8 卷第 4 期,民國 102 年 10 月, 223-227 頁。
- 48. Wang, Chikang, Hou, Chien-Wei, Wei, Yu-Xiu, "Degradation and detoxicity of ethylenediamine wastewater by a continuous dosing mode sono-Fenton process," Sustainable Environment Research, Vol. 23, 2013, 11, pp. 413-420.
- 49. <u>王寮慷</u>、魏語秀,「連續加藥式 sono-Fenton 程序降解乙二胺廢水之影響因子 探討」,健康管理學刊,第 11 卷第 1 期,民國 102 年 6 月,75-84 頁。
- 50. <u>王寮慷</u>、侯建維、簡忠政,「進階型超音波程序降解四環素類抗生素廢水之研究」,健康管理學刊,第 12 卷第 2 期,民國 103 年 12 月,43-54 頁。
- 51. Wang, Chikang, Liu, Chunghan, "Decontamination of alachlor herbicide wastewater by a continuous dosing mode ultrasound/Fe2+/H2O2 process.," *Journal of Environmental Sciences*, Vol. 26, 2014, 6, pp. 1332-1339.
- 52. Wang, Chikang, Jian, Jhongjheng, "Feasibility of tetracycline wastewater degradation by an enhanced sonolysis," *Journal of Advanced Oxidation*

- Technologies, Vol. 18, 2015, 1, pp. 39-46.
- 53. Wang, Chikang, Shih, Yiheng, "Degradation and detoxicity of diazinon by sono-Fenton and sono-Fenton-like processes," *Separation and Purification Technology*, Vol. 140, 2015, 1, pp. 6-12.
- 54. Wang, Chikang, Liu, Chunghan, "Degradation of alachlor using an enhanced sono-Fenton process with efficient Fenton's reagent dosages.," *Journal of Environmental Science and Health Part B-Pesticides, Food Contaminants, and Agricultural Wastes*, Vol. 50, 2015, 5, pp. 504-513.
- 55. Wang, Chikang, Jian, Jhongjheng, "Degradation and Detoxicity of Tetracycline by an Enhanced Sonolysis.," *Journal of Water and Environment Technology*, Vol. 13, 2015, 7, pp. 325-334.
- 56. Wang, Chikang, Shih, Yiheng, "Facilitated ultrasonic irradiation in the degradation of diazinon insecticide," Sustainable Environment Research, Vol. 26, 2016, 11, pp. 110-116.
- 57. <u>王繁慷</u>、廖冠雲,「剛果紅染料廢水以 UV/O3 程序脫色及礦化之研究」,健康管理學刊 (Journal of Health Management),第 14 卷第 2 期,民國 105 年 12 月,11-22 頁。
- 58. Wang, Chikang, Hou C.-W., Liu Z.H., "Decontamination of alachlor by continuously dosed sono-Fenton process: Effects of system parameters.," *Modern Environmental Science and Engineering*, Vol. 2, 2016, 6, pp. 1-10.
- 59. Wang, C.K., Huang, B.M., "Degradation of tetracycline by advanced oxidation processes: Sono-Fenton and ozonation processes," *Desalination and Water Treatment*, 2017, 2, p. Accepted.
- 60. Wang, C.K., Huang, B.M., "Application of the sono-Fenton and ozonation processes in the degradation of tetracycline," *GSTF Journal of Engineering Technology (JET)*, Vol. 4, 2017, 7, pp. DOI: 10.5176/ 2251-3701 4.3.197.