

## 張原志(Yuan-Chih Chang) 助理研究員學術著作

### (A)期刊論文

Su JJ, Liu BY and Chang YC (2001) Identification of an interfering factor on chemical oxygen demand (COD) determination in piggery wastewater and elimination of the factor by an indigenous *Pseudomonas stutzeri* strain. Letters in Applied Microbiology 33 (6):440-444. (SCI)

Su JJ, Liu BY and Chang YC (2003) Emission of Greenhouse Gas from Livestock Waste and Wastewater Treatment in Taiwan. Agriculture, Ecosystems Environment 95:253-263. (SCI)

Su JJ , Liu BY and Chang YC (2004) Reduction of Greenhouse Gases from Anaerobic Piggery Wastewater Treatment by Bromochloromethane in Taiwan . Journal of Environmental Science and Health B39(5-6): 889-02. (SCI)

Su JJ, Chen YJ, Chang YC, Tang SC (2008) Isolation of sulfur oxidizers for desulfurizing biogas produced from anaerobic piggery wastewater treatment in Taiwan. Australian Journal of Experimental Agriculture 48(1-2):193-197. (SCI)

Su JJ, Chen YJ, Chang YC, Tang SC, Yu IT, and Chang CK (2010) Preliminary study of a pilot-scale bio-filter system for biogas desulfurization for pig farms. Journal of Environmental Management (in review) (SCI)

### (B)期刊論文

Su JJ, Liu BY and Chang YC (2001) Emission of Greenhouse Gas from Anaerobic Pig and Dairy Cattle Wastewater Treatment System in Taiwan. Proceedings of the 1<sup>st</sup> International Conference on Greenhouse gas and Animal Agriculture, pp.248-251. (Hokkaido, Japan)

Su JJ, Liu BY and Chang YC (2001) Application and study of native aerobic denitrifier for enhanced removal of COD interfering factor from livestock wastewater. Proceeding of the 26th Wastewater Treatment Technology Conference, Chinese Institute of Environmental Engineering (in CD).

Su JJ , Chang YC, Huang LT and Tang SC (2005) Effect of bromochloromethane on

reduction of methane produced from anaerobic piggery wastewater treatment systems. Proceedings of The 2nd International Conference on Greenhouse Gases and Animal Agriculture (GGAA).( Zurich , Swiss)pp.486-489.

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蘇忠楨、陳妍蓉、張原志、陳瑞華(2006)畜牧場沼氣生物脫硫菌株研究。中畜會誌35(增刊)：151。

蘇忠楨、陳妍蓉、張原志、湯司菁(2007)畜牧場沼氣生物脫硫系統研究。中畜會誌36(增刊)：170。

Su JJ, Chen YJ, Chang YC, Tang SC (2007) Isolation of sulfur oxidizers for desulfurizing biogas produced from anaerobic piggery wastewater treatment in Taiwan. Proceedings of 2007 Greenhouse Gases and Animal Agriculture Conference, p.148.(Christchurch, New Zealand)

Su JJ, Chen YJ, Chang YC, Chang KC, Yu IT, Tang SC (2008) A mesophilic bio-filter reactor for desulfurizing biogas from pig farms in Taiwan. Proceedings of 2008 International Conference on Sustainable Agriculture for Food, Energy and Industry (ICSA), p.24.(Sapporo, Japan)

蘇忠楨、陳妍蓉、張原志(2008)沼氣生物脫硫技術研究。第五屆畜牧污染防治技術研討會論文集pp.145-154

#### (C)專書及專書論文

Su JJ, Liu By and Chang YC(2002) Emission of greenhouse gas from anaerobic pig and dairy cattle wastewater treatment in Taiwan. In: Greenhouse Gases and Animal Agriculture, Part I. Overview of greenhouse gases and animal agriculture. Edited by Takahashi, J and Young, BA. Elsevier Science. ISBN: 0-444-51012-5.

Su JJ, Liu BY and Chang YC (2006) Reduction of greenhouse gases from anaerobic piggery wastewater treatment by bromochloromethane in Taiwan. 「氣候變遷、衝擊、因應與永續發展研究進展」專書。台灣大學全球變遷研究中心。pp. 576-584 (ISBN 986-00-2441-3)。

#### (D)研究專利及應用成果

1.蘇忠楨、陳妍蓉、張原志。用於處理含硫化氫沼氣之生物脫硫系統及其生物脫硫方法。中華民國專利申請案第 096116957 號。經濟部智慧財產局。