

簡歷資料及著作目錄

填表日期：98 年 9 月 30 日

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學歷	國立交通大學環境工程研究所博士班，2003 年 2 月~2006 年 12 月 國立交通大學環境工程研究所碩士班，2001 年 9 月~2003 年 02 月 私立淡江大學水資源及環境工程學系，1995 年 9 月~1999 年 06 月		
學術專長	1. 大氣物理化學。 2. 微粒化學成份微量分析。 4. 大氣污染物監測與控制技術。 5. 大氣奈米物質傳輸及流佈。 6. 綠建築與節能，室內空氣品質監測與模擬(通風換氣率與空氣品質關係、通風與節能的關係等)。 7. 計算流體力學及熱力學(三維流場、溫度場、微粒軌跡及污染物濃度計算) 8. 室內環境有害氣體污染模擬(mini-environment 設計、微污染監測等研究)。		
可任教科課程	1.大氣物理化學 2.工程數學 3.微積分 4.環境汙染物傳輸現象 5.流體力學 6.微量空氣污染採樣分析實驗 7.數值分析方法 8.粒狀物控制理論與實務 9.室內空氣污染模擬及監測 10.高等氣膠量測 11.環境化學 12. 作業環境測定等		
現職	1. 博士後研究員，交大環工所蔡春進教授奈米微粒與空氣品質實驗室 2. 環保署專案計畫：「環境中奈米物質質量測及特性分析技術開發」之計畫經理		
經歷與榮譽	1. 最佳技術論文獎，2007 中華民國環境工程學會 2. 3rd International Symposium on Nanotechnology, Occupational and Environmental Health, 2007)口頭發表主持人及工作人員 3. 最佳技術論文獎，2006 中華民國氣膠研究學會 4. 優秀論文獎，2006 中華民國環境工程學會 5. 49 期少尉預官(1999/10 至 2001/6) 6. 大學學生社團負責人(1997/2 至 1998/2)		

<p>著作 目錄</p>	<p>Journal papers</p> <ol style="list-style-type: none"> 1. Tsai, Chuen-Jinn, <u>Sheng-Chieh Chen</u>, Cheng-Hsiung Huang, Da-Ren Chen, (2004). "A Universal Calibration Curve for the TSI Aerodynamic Particle Sizer", Aerosol Science and Technology, Vol. 38, pp. 467-474. (SCI), IF=2.905. 2. Tsai, Chuen-Jinn, Daren-Ren Chen, HungMin Chein, <u>Sheng-Chieh Chen</u>, Jian-Lun Roth, Yu-Du Hsu, Weiling Li, Pratim Biswas, (2004) "Theoretical and Experimental Study of an Axial Flow Cyclone for Fine Particle Removal in Vacuum Conditions", Journal of Aerosol Science, Vol. 35(9), pp. 1105-1118. (SCI), IF=2.952. 3. <u>Chen, Sheng-Chieh</u>, Chuen-Jinn Tsai, Shoud-Nan Li and Hui-Ya Shih, (2005). "Dispersion of Gas Pollutant in a Fan-Filter-Unit (FFU) Cleanroom", Building and Environment, Vol. 42(5), pp. 1902-1912. (SCI), IF=1.192. 4. <u>Chen, Sheng-Chieh</u>, Chuen-Jinn Tsai, Jian-Lun Roth, C. G. Deshpande, HungMin Chein, (2005). "Control of Nanoparticles by an Axial Flow Cyclone Operating in Vacuum Conditions", Journal of Chinese Colloid Interface Society, Vol. 28(4), pp. 237-246. (EI) 5. <u>Chen, Sheng-Chieh</u>, Chuen-Jinn Tsai, (2006). "An Axial Flow Cyclone to Remove Nanoparticles at Low Pressure Conditions", Journal of Nanoparticle Research, Vol. 9(1), pp. 71-83. (SCI), IF=2.156. 6. Tsai, Chuen-Jinn, <u>Sheng-Chieh Chen</u>, Rafal Przekop, Arkadiusz Moskal, (2006). "Study of an Axial Flow Cyclone to Remove Nanoparticles in Vacuum", Environmental Science and Technology, Vol. 41(5), pp. 1689-1695. (SCI), IF=4.04. 7. <u>Chen, Sheng-Chieh</u>, Chuen-Jinn Tsai, Hank Wu, Andrei Onischuk, (2006). Particle Loss in a Critical Orifice, Journal of Aerosol Science, Vol. 38, pp. 935-949 (SCI), IF=2.952. 8. Tsai, Chuen-Jinn, Cheng-Sheng Chang, <u>Sheng-Chieh Chen</u>, Penny Chen, Tung-Sheng and Shih Da-Toung, (2007). Laboratory and Field Tests of a Novel 3-Stage Personal Dust Sampler, Aerosol Science and Technology, Vol. 42, pp. 86-95. (SCI), IF=2.905. 9. Tsai, Chuen-Jinn, Guan-Yu Lin, <u>Sheng-Chieh, Chen</u> (2008). A Parallel Plate Wet Denuder for Acidic Gas Measurement, AIChE Journal, Vol 54, pp. 2198-2205. (SIC), IF=2.905. 10. Tsai, Chuen-Jinn Chien-Hsien Wu, Ming-Long Leu, <u>Sheng-Chieh Chen</u>, Cheng-Yu Huang, Perng-Jy Tsai, Fu-Hsiang Ko (2008). Dustiness Test of Nanopowders Using a Standard Rotating Drum with a Modified Sampling Train, Journal of Nanoparticle Research, Vol 11, pp.121-131. (SCI), IF=2.156. 11. Chuen-Jinn Tsai, <u>Sheng-Chieh Chen</u>, Hsia-Lun Chen, HungMin Chein, Chien-Hsien Wu, Tzi-Ming Chen, (2008), Study of a Nanoparticle Charger Containing Multiple Discharging Wires in a Tube, Sep. Sci. Technol. Vol. 43, No. 13, pp. 3476-3493. (SCI), IF=1.048. 12. Shih, Hui-Ya, Shih-Hsuan Huang, Shou-Nan Li, <u>Sheng-Chieh Chen</u> and Chuen-Jinn Tsai, (2009), Spatial and Temporal Distributions of a Gaseous Pollutant during Simulated Preventive Maintenance and Pipe Leaking Events in a Working Cleanroom, IEEE Transactions on Semiconductor Manufacturing, (SCI). (in press)
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13. Lin, Guan-Yu, Tsai Chuen-Jinn, Chen, Sheng-Chieh, Chen, Tzu-Ming and Li, Shou-Nan, (2009). An Efficient Single-Stage Wet Electrostatic Precipitator for Fine and Nanosized particle Control, Aerosol Science and Technology (in press). (SCI), IF=2.690.
14. Chen, Sheng-Chieh, C.J. Tsai, S.J. Chen, C.C. Lin, Charles C.K. Chou, W.R. Huang, G.D.Roam, W.Y.Wu, J. Smolik, and David.Y.H. Pui (2009). Chemical Mass Closure and Chemical Characteristics of Ambient Ultrafine Particles and other PM Fractions in a Highway Tunnel and at a Roadside, Aerosol Science and Technology (accepted). (SCI), IF=2.690.
15. Chen, Sheng-Chieh, C.J. Tsai, S.J. Chen, C.C. Lin, Charles C.K. Chou, W.R. Huang, G.D.Roam, W.Y.Wu, J. Smolik, and David.Y.H. Pui (2009). The Effective Density and Size Distribution of Ultrafine Particles at Different Sampling Locations in Taiwan, Atmospheric Environment. (revised) (SCI), IF=2.890.

專利：

09(專)A083 通過提案

提案名稱：用於多階衝擊器之多微孔噴嘴板及其製造方法

Conference papers

國內：僅列出得獎文章

1. Chen, Sheng-Chieh, Chuen-Jinn Tsai, An axial flow cyclone to remove nanoparticles at low pressure conditions. 摘要, 95 年環工年會空氣污染控制技術研討會, 台中, 台灣, 11 月 17-18, pp213. (優秀論文)
2. Chen, Sheng-Chieh, Chuen-Jinn Tsai, Hank Wu, Andrei Onischuk, Particle Loss in a Critical Orifice. 摘要, 95 年國際氣膠科技研討會, 台南, 台灣, 9 月 29-30, c3-1-102. (最佳論文)
3. Chen, Sheng-Chieh, Chuen-Jinn Tsai, An orifice-low pressure cyclone system for nanoparticle sampling. 摘要, 96 年環工年會空氣污染控制技術研討會, 高雄, 台灣, 11 月 23-24, pp171. (最佳論文)

國際：

4. Chen, Sheng-Chieh, Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, and Chen, Daren-Ren, (2003). "A Universal Calibration Curve for the TSI Aerodynamic Particle Sizer", Abstract, AAAR 2003, Anaheim, California, Oct. 20-24, pp.71; EAC 2004, Budapest, Hungary, Sep. 6-10, pp. 843-844. (Poster)
5. Chen, Sheng-Chieh, Chuen-Jinn Tsai, Da-Ren Chen, Hung-Min Chein, Jian-Lun Roth, Yu-Du Hsu, Pratim Biswas, Weiling Li, (2004). "An Axial Flow Cyclone for Nanoparticle Control in Vacuum Conditions", Abstract, EAC 2004, Budapest, Hungary, Sep. 6-10, pp. 43-44. (Oral)
6. Chen, Sheng-Chieh, Chuen-Jinn Tsai, Jian-Lun Roth, C. G. Deshpande, (2005). "Comparison of the collection efficiency of liquid and solid nanoparticles by an axial flow cyclone operating in vacuum condition", Abstract, EAC 2005, Ghent, Belgium, 28 Aug.-2 Sep. (Poster)
7. Chen, Sheng-Chieh, Chuen-Jinn Tsai, Jian-Lun Roth, C. G. Deshpande, HungMin Chien, (2005). "Comparison of the collection efficiency of liquid and solid nanoparticles by an axial flow cyclone operating in vacuum condition", Abstract, AAC 2005, Mumbai, India, Dec. 13-16, pp. 24. (Oral)
8. Tsai, Chuen-Jinn, Jian-Lun Roth, Sheng-Chieh Chen, (2005). "Loss of

	nanoparticles in an orifice”, Abstract, AAC 2005, Mumbai, India, Dec. 13-16, pp. 5. (Poster)
9.	Przekop Rafal, <u>Sheng-Chieh Chen</u> , Chuen-Jinn Tsai, (2005). “Lattice-Boltzmann modeling of fluid flow and particles deposition in an axial flow cyclone in vacuum conditions”, Abstract, AAC 2005, Mumbai, India, Dec. 13-16, pp. 238. (Poster)
10.	<u>Chen, Sheng-Chieh</u> , Chuen-Jinn Tsai, (2006). “An axial flow cyclone to remove nanoparticles at low pressure conditions” Abstract, IAC 2006, St. Paul, Minnesota, Sep. 10 -15, pp. 133. (Oral)
11.	Tsai, Chuen-Jinn, <u>Sheng-Chieh Chen</u> , Chen-Han Wu, (2006). “Particle deposition in a critical orifice”, Abstract, IAC 2006, St. Paul, Minnesota, Sep. 10 -15, pp. 618. (Poster)
12.	Przekop Rafal, <u>Sheng-Chieh Chen</u> , Chuen-Jinn Tsai, Arkadiusz Moskal, (2006). “An axial flow cyclone to remove nanoparticles at low pressure conditions” Abstract, IAC 2006, St. Paul, Minnesota, Sep. 10 -15, pp. 332. (Oral)
13.	<u>Chen, Sheng-Chieh</u> , Chuen-Jinn Tsai, Chen-Han Wu, Andrei A. Onischuk, (2007). “An orifice-low pressure cyclone system for nanoparticle sampling”, Abstract, 3 rd International Symposium on Nanotechnology, Occupational and Environmental Health, Taipei, Taiwan, Aug. 29-Sep. 1, pp. 20-21. (Oral)
14.	<u>Chen, Sheng-Chieh</u> , Chuen-Jinn Tsai, Chen-Han Wu, (2007). “Particle deposition in a critical orifice”, Abstract, EAC 2007, Salzburg, Austria, Sep. 9-14. (Oral)
15.	<u>Chen, Sheng-Chieh</u> , C.J. Tsai, C.H. Wu, C.S. Chang, G.Y. Lin, S.J. Chen, J.H. Tsai, C.C. Lin, Charles C.K. Chou, W.R. Huang, G.D.Roam, W.Y.Wu, J. Smolik and David.Y.H. Pui, “Study of environmental nanoparticles at a road side and in a high-way tunnel”, Abstract, EAC 2008, Thessaloniki, Greece, Aug. 24-29. (Oral)
16.	<u>Chen, Sheng-Chieh</u> , Tsai, C.J., Chen, S.J., Lin, C.C., Chou, Charles C.K., Lung, S.C., Roam, G.D., Wu, W.Y., Smolik, J., and Dzumbova, L. Environmental Ultrafine, Fine and Coarse Particles in a Highway Tunnel and at a Roadside, Abstract pp.200-203, 18th ICNAA 2009, 10 - 14 August 2009, Prague, Czech Republic. (Oral)