RESUME

NAME: Chang-Chuan Chan

AFFILIATION: National Taiwan University, College of Public Health, Institute of

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EDUCATION:

Bachelor of Public Health majoring in Chemistry and Biology, National Taiwan University, College of Medicine (1982)

Master of Science majoring in Industrial Hygiene and Air Pollution Control, Harvard School of Public Health (1987)

Doctor of Science majoring in Air Pollution Control, Harvard School of Public Health (1990)

WORK EXPERIENCE

- Associate Dean, College of Public Health, National Taiwan University, since 2011
- Director of Global Health Center in Taiwan College of Public Health, National Taiwan University, since 2011
- Director of International Health Center in Taiwan, College of Public Health, National Taiwan University, 2007-2011
- Director of Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, National Taiwan University, 1999-2005
- Takemi Fellow in International Health, Harvard University, 1997-1998
- Fulbright Visiting Scholar, 1997-1998
- Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, National Taiwan University, Taipei City, Taiwan. Professor in Occupational Medicine and Industrial Hygiene, since 1996
- Acting director of Institute of Occupational Medicine and Industrial Hygiene, 1996-1997
- College of Public Health, National Taiwan University, Taipei City, Taiwan. Associate Professor in Environmental Health, 1990-1996
- Harvard School of Public Health, Department of Environmental Sciences, Boston, MA, Teaching Assistant, 1988-1990

CONSULTATION EXPERIENCE

- Councilor, International Society for Environmental Epidemiology (ISEE), 2015-2017
- Chair Elect, International Society for Environmental Epidemiology
 Asia Chapter (ISEE-AC), since 2015
- Steering Committee Member, Association of Pacific Rim Universities (APRU) Global Health Program, 2014-2016
- Chairman, Taiwan Chapter of Society for Risk Analysis, since 2009
- President of Society for Risk Analysis in Taiwan, since 2008
- Councilor of International Society of Exposure Analysis (ISEA), since 2008-2011
- Vice-president of Society for Risk Analysis in Taiwan, since 2007
- Member of the National Sustainable Development Committee, Executive Yuan, Taiwan since 2000
- Member of the National Health Information Committee, Ministry of Health, Taiwan since 2003
- Member of the Comprehensive Preventive Health Care Committee, Ministry of Health, Taiwan since 2002
- Member of the National Environmental Quality Committee, Taiwan Environmental Protection Agency, since 2000
- Member of Environmental Impact Assessment Committee, Taiwan Environmental Protection Agency, Since 2000
- Member of Occupational Diseases Recognition Committee, Council of Labor Affairs, Taiwan, since 2002
- Member of Occupational Injury and Accident Prevention Fund Committee, Labor Insurance Bureau, Taiwan, since 2002
- Member of Disaster Response and Relief Committee, Taipei County, since 2003
- Member of Hospital Infection Control Auditing Committee, Ministry of Health, Taiwan since 2003
- Member of Environmental Impact Assessment Committee, Taipei City, 1996-2000
- Member of Environmental Impact Assessment Committee, Taipei County, 1992-1998
- Member of Technical Committee of Air Pollution Fee, Taiwan Environmental Protection Agency, 1994-1997

PUBLICATION

Over 136 scientific papers in English on health, environment and labor issues have been published in Scientific Citation Indexed journals (SCI journals).

RESEARCH PROJECTS

Over 100 research projects related to environment, health, risk assessment, and environmental management funded by the Ministry of Health, Taiwan EPA, National Research Council, Ministry of Economic Development, Council of Labor, National Health Research Institute, Taipei City, Kaoshung City, Taipei County, Nantou County and several private companies.

Professor Chan has led the following projects during the past five years (2010-2014):

- 1. European Study of Cohorts for Air Pollution Effects (ESCAPE): Description of Work for a Collaborative Project (Large-Scale Integrating Project), National Science Council, 2008.06-2013.08.
- 2. A Global Health Inequality Study: An International Comparison of Long-term Physical and Social Environments on Population Health, National Science Council, 2008.08-2011.07.
- 3. A Cohort Study of Environmental Exposures and Health Status among Residents Living Near the DragonSteel Plants, DragonSteel Corp., 2009.01-2010.05.
- 4. The Epidemiological Study Related to Air Pollutants nearby Neihu, Mucha, and Beitou Incinerators in Taipei (II), Mucha Incinerator in Department of Environmental Protection, Taipei, 2009.06-2010.06.
- 5. Air Pollution and Health among Residents near a Petrochemical Complex in Yunlin County: A Cohort Study, Environmental Protection Bureau, Yunlin County, 2009.07-2013.07.
- 6. Develop and Validate Methodologies for Exposure Assessment of Airborne Particulate Matters (I), Environmental Protection Administration, 2009.12-2010.12.
- 7. International Comparison of Acrylamide Intake from Friend Food in Taiwan and in Thailand, National Health Research Institute, 2010.01-2010.12.
- 8. Health Impact Assessment of Air Pollution in Ulaanbaatar City, Mongolia, National Science Council, 2010.08-2013.07.
- 9. Develop and Validate Methodologies for Exposure Assessment of Airborne Particulate Matters (II), Environmental Protection Administration, 2011.02-2011.12.
- 10. Study on Biomechanisms of Cardiovascular Diseases by Long-Term Air Pollution Exposure, National Science Council, 2011.08-2014.07.
- 11. The Cohort Study on the Health Impacts of Long-term Exposure to Air Pollution on Cardiovascular Diseases and Tuberculosis, National Health Research Institute, 2012.01-2014.12.

- 12. Develop and Validate Methodologies for Exposure Assessment of Airborne Particulate Matters (III), Environmental Protection Administration, 2012.04-2013.04.
- 13. Assessment and Establishment Project of Occupational Health Management System (I), Taiwan Semiconductor Manufacturing Company, 2012.06-2013.02.
- 14. Exposomics Research on Common Complex Diseases, Department of Education, 2012.07-2014.12.
- 15. Assessment and Establishment Project of Occupational Health Management System (II), Taiwan Semiconductor Manufacturing Company, 2013.07-2014.03.
- 16. Air Pollution and Health among Residents near a Petrochemical Complex in Yunlin County: A Cohort Study, Public Health Bureau, Yunlin County, 2013.07-2014.12.
- 17. Exposure Assessment and Source Apportionment of PM_{2.5} in Central Taiwan Air Basin, Environmental Protection Administration, 2013.09-2014.09
- 18. The Epidemiological Study Related to Air Pollutants nearby Neihu, Mucha, and Beitou Incinerators in Taipei (III), Beitou Incinerator in Department of Environmental Protection, Taipei, 2014.04-2015.04.
- 19. Biomarker Detections of Environmental Epidemiological Cohort for Residents in Southern Changhua Areas and high Sensitive Cohort Establish and Tracing, National Health Research Institute, 2014.01-2015.12.

PUBLICATION (scientific papers)

- 1. <u>Chan CC</u>, Yanagisawa Y, Spengler JD. **Personal and indoor outdoor nitrogen-dioxide exposure assessments of 23 homes in Taiwan.** *Toxicology and Industrial Health* Jan 1990;6(1):173-182. [#121, 11]
- 2. <u>Chan CC</u>, Ozkaynak H, Spengler JD, Sheldon L. **Driver exposure to volatile** organic-compounds, CO, ozone, and NO2 under different driving conditions. *Environmental Science & Technology* May 1991;25(5):964-972. [#122, 127]
- 3. <u>Chan CC</u>, Spengler JD, Ozkaynak H, Lefkopoulou M. Commuter exposures to vocs in Boston, Massachusetts. *Journal of the Air & Waste Management Association* Dec 1991;41(12):1594-1600. [#1, 82]
- 4. <u>Chan CC</u>, Huang SK, Chuang HY, Wang JD. **Identification of lead exposure** sources of a ceramic enamel production factory in Taiwan. *Chinese Journal of Public Health* 1992;11(2):81-88.
- 5. Chan CC, Lin SH, Her GR. Determination of volatile organic compounds in ambient air using a sampling and analytical method of tenax resin adsorption, thermal desorption procedure, and gas chromatography/mass spectrometer. Chemistry (The Chinese Chem. Soc., Taiwan) 1993;51(3):273-286.

- 6. <u>Chan CC*</u>, Lin SH, Her GR. **Student's exposure to volatile organic compounds** while commuting by motorcycle and bus in Taipei city. *Journal of the Air and Waste Management Association* 1993;43(9):1231-1238. [#2, 43]
- 7. <u>Chan CC*</u>, Chen YC, Wang JD. Comparison of questionnaires, cigarette butt counts, and nicotine concentration measurements in predicting schoolchildren nicotine exposure. *Bulletin of Environmental Contamination and Toxicology* Aug 1994;53(2):254-258. [#6, 1]
- 8. <u>Chan CC*</u>, Hung HF, Fu LF. **The indoor outdoor relationship of acid aerosols in Taipei.** *Science of the Total Environment* Aug 1994;153(3):267-273. [#7, 5]
- 9. <u>Chan CC*</u>, Lin SH, Her GR. **Office worker's exposure to volatile organic-compounds while commuting and working in Taipei-city.** *Atmospheric Environment* Aug 1994;28(14):2351-2359. [#4, 30]
- 10. Lin SC, Tai CC, <u>Chan CC</u>, Wang JD. **Nasal-septum lesions caused by chromium exposure among chromium electroplating workers.** *American Journal of Industrial Medicine* Aug 1994;26(2):221-228. [#3, 23]
- 11. Liu JJ, <u>Chan CC</u>, Jeng FT. Predicting personal exposure levels to carbon-monoxide (CO) in Taipei, based on actual co measurements in microenvironments and a monte-carlo simulation method. *Atmospheric Environment* Aug 1994;28(14):2361-2368. [#5, 20]
- 12. Chan CC*, Nien CK, Tsai CY, Her GR. Comparison of tail-pipe emissions from motorcycles and passenger cars. *Journal of the Air and Waste Management Association* Feb 1995;45(2):116-124. [#10, 31]
- 13. Tang FC, <u>Chan CC</u>, Chen PC, Yau KT, Hwang JS, Wang JD. **Absenteeism due to respiratory mortality in elementary schools with low level air pollution.** *Chinese Journal of Public Health* Aug 1995;14(2):201-210.
- 14. <u>Chan CC*</u>, Chen SC, Wang JD. **Relationship between indoor nicotine** concentrations, time-activity data, and urine cotinine-creatinine ratios in

- **evaluating childrens exposure to environmental tobacco-smoke.** *Archives of Environmental Health* May-Jun 1995;50(3):230-234. [#9, 7]
- 15. <u>Chan CC*</u>, Nien CK, Hwang JS. **Receptor modeling of VOCs, CO, NOx, and THC in Taipei**. *Atmospheric Environment* Jan 1996;30(1):25-33. [#8, 8]
- 16. Du CL, <u>Chan CC</u>, Wang JD. Comparison of personal and area sampling strategies in assessing workers' exposure to vinyl chloride monomer. *Bulletin of Environmental Contamination and Toxicology* Apr 1996;56(4):534-542. [#11, 13]
- 17. Huang CC, Chen YC, Her GR, Chan CC. Quantification of toxic hydrocarbon target compounds in engine exhaust and air by aluminum oxide porous-layer open-tubular capillary gas chromatography- mass spectrometry using isotopically labeled internal standards. *Journal of Chromatography A* Apr 1996;731(1):217-224. [#13, 9]
- 18. <u>Chan CC*</u>, Hwang JS. **Site representativeness of urban air monitoring stations**. *Journal of the Air and Waste Management Association* Aug 1996;46(8):755-760. [#14, 14]
- 19. <u>Chan CC*</u>, Chang LT. **The development and application of a sampling and analytical method for ethylene oxide**. *Chinese Journal of Public Health* Aug 1996;15(4):346-356.
- 20. <u>Chan CC</u>, Hwang JS. Selling the blue skies: some reflections on air pollution fee policy in Taiwan. *Journal of the Chinese Institute of Environmental Engineering* Sep 1996;6(3):253-246.
- 21. Kuo HW, Lo II, <u>Chan CC*</u>, Lai JS, Wang JD. **Volatile organic compounds in** water near petrochemical factories in Taiwan. *Chemosphere* Sep 1996;33(5):913-920. [#12, 9]
- 22. <u>Chan CC*</u>, Huang SK, Chen YC, Wang JD. **Mass concentrations of respirable** particulate and nicotine in seven smoker's homes in rural area of Taiwan. *Chinese Journal of Public Health* Oct 1996;15(5):425-433.

- 23. Chan CC*, Ku CH. Development of a sampling and analytical method for volatile organic compounds (VOCs) and 3-ethenylpyridine (3-EP) using solid adsorbent, thermal desorption procedure and gas chromatography/mass spectrometer. Chinese Journal of Public Health Oct 1996;15(5):434-446.
- 24. Yang CY, Wang JD, <u>Chan CC</u>, Chen PC, Huang JS, Cheng MF. **Respiratory and** irritant health effects of a population living in a petrochemical-polluted area in **Taiwan**. *Environmental Research* Jan 1997;74(2):145-149. [#16, 30]
- 25. Hwang JS, <u>Chan CC</u>. **Redundant measurements of urban air monitoring networks in air quality reporting**. *Journal of the Air and Waste Management Association* May 1997;47(5):614-619. [#19, 4]
- 26. Tang FC, Chen PC, Chan CC, Yau KI, Wang JD. **Predictive pulmonary function of school children in an area of low air pollution in Taiwan**. *Journal of the Formosan Medical Association* Jun 1997;96(6):397-404. [#18, 1]
- 27. Chang WP, <u>Chan CC</u>, Wang JD. ⁶⁰Co contamination in recycled steel resulting in elevated civilian radiation doses: causes and challenges. *Health Physics* Sep 1997;73(3):465-472. [#17, 38]
- 28. Lee JS, Dong SL, Chang WP, <u>Chan CC</u>. Evaluation of external dose equivalent with thermoluminescent dosimeters from residents living in radiation-contaminated buildings. *Applied Radiation and Isotopes* Sep 1997;48(9):1237-1243. [#20, 7]
- 29. Uang SN, <u>Chan CC</u>, Chang LT. **The sampling and analysis method of ethylene** oxide by thermal desorption technique. *Journal of Occupational Safety and Health* Sep 1997;5(3):37-51.
- 30. Kuo HW, Chiang TF, Lo II, <u>Chan CC</u>, Lai JS, Wang JD. **Exposure assessment of volatile organic compounds from water in Taiwan metropolitan and petrochemical areas**. *Bulletin of Environmental Contamination and Toxicology* Nov 1997;59(5):708-714. [#15, 4]
- 31. Kuo HW, Chiang TF, Lo II, Lai JS, Chan CC, Wang JD. VOC concentration in

- **Taiwan's household drinking water**. *Science of the Total Environment* Dec 1997;208(1-2):41-47. [#21, 31]
- 32. Hwang JS, <u>Chan CC</u>, Wang JD, Chang WP. **Radiation exposure modeling for apartment living spaces with multiple radioactive sources**. *Health Physics* Mar 1998;74(3):379-386. [#22, 19]
- 33. Yang CY, Wang JD, <u>Chan CC</u>, Hwang JS, Chen PC. **Respiratory symptoms of primary school children living in a petrochemical polluted area in Taiwan**. *Pediatric Pulmonology* May 1998;25(5):299-303. [#23, 22]
- 34. Chen PC, Lai YM, Wang JD, Yang CY, Hwang JS, Kuo HW, Huang SL, <u>Chan CC*</u>. Adverse effect of air pollution on respiratory health of primary school children in Taiwan. *Environmental Health Perspectives* Jun 1998;106(6):331-335. [#24,26]
- 35. Kuo HW, Chiang TF, Lo II, Lai JS, <u>Chan CC</u>, Wang JD. **Estimates of cancer risk** from chloroform exposure during showering in Taiwan. Science of the Total Environment July 1998, 218(1):1-7. [#25, 18]
- 36. Chen PC, Lai YM, <u>Chan CC</u>, Hwang JS, Yang CY, Wang JD. **Short-term effect of ozone on the pulmonary function of children in primary school**. *Environmental Health Perspectives* Nov 1999;107(11):921-925. [#26, 11]
- 37. Kuo HW, Wei HC, Liu CS, Lo YY, Wang WC, Lai JS, <u>Chan CC</u>. **Exposure to volatile organic compounds while commuting in Taichung, Taiwan**. *Atmospheric Environment* 2000;34(20):3331-3336. [#27, 20]
- 38. Lin NH, Lee CT, <u>Chan CC</u>, Hsu WC, Chang MB, Lin WL, Hong CA, King HB, Hsia YJ. A preliminary analysis of chemical characteristics of atmospheric pollutants and their deposition budget on the Fu-Shan forest in Taiwan.

 Terrestrial Atmospheric and Oceanic Sciences JUN 2000;11(2):481-500. [#28, 5]
- 39. Hwang JS, Chen YJ, Wang JD, Lai YM, Yang CY, <u>Chan CC*</u>. **Subject-domain** approach to the study of air pollution effects on schoolchildren's illness

- absence. American Journal of Epidemiology Jul 2000;152(1):67-74. [#29, 10]
- 40. Tang CS, Fan SZ, <u>Chan CC*</u>. Smoking status and body size increase carbon monoxide concentrations in the breathing circuit during low-flow anesthesia. *Anesthesia and Analgesia* Feb 2001;92(2):542-547. [#30, 10]
- 41. Wang GS, <u>Chan CC*</u>. Assessment of the environmental health conditions of the temporary shelters in disaster areas after the "921 earthquake, Taiwan". Taiwan J Public Health Apr 2001;20(2):153-165.
- 42. Du CL, <u>Chan CC</u>, Wang JD. **Development of a job exposure matrix model for polyvinyl chloride workers in Taiwan**. *Institute of Occupational Safety and Health Journal* Jun 2001;9(2):151-166.
- 43. Hsieh WA, Lucas JN, Hwang JJ, <u>Chan CC</u>, Chang WP. **Biodosimetry using** chromosomal translocations measured by FISH in a population chronically exposed to low dose-rate 60Co gamma-irradiation. *International Journal of Radiation Biology* Jul 2001;77(7):797-804. [#31, 17]
- 44. Hildesheim A, Dosemeci M, <u>Chan CC</u>, Chen CJ, Cheng YJ, Hsu MM, Chen IH, Mittl BF, Sun B, Levine PH, Chen JY, Brinton LA, Yang CS. **Occupational exposure to wood, formaldehyde, and solvents and risk of nasopharyngeal carcinoma**. *Cancer Epidemiology Biomarkers and Prevention* Nov 2001;10(11):1145-1153. [#32, 63]
- 45. Liu YH, Du CL, Lin CT, <u>Chan CC</u>, Chen CJ, Wang JD. <u>Increased morbidity from nasopharyngeal carcinoma and chronic pharyngitis or sinusitis among workers at a newspaper printing company</u>. *Occupational and Environmental Medicine* Jan 2002;59(1):18-22. [#34, 11]
- 46. Hwang JS, <u>Chan CC*</u>. **Hwang and Chan Respond to "Air Pollution and Health" by Dominici**. *American Journal of Epidemiology* Jan 2002;155(1):16.
- 47. Hwang JS, <u>Chan CC*</u>. **Effects of air pollution on daily clinic visits for lower respiratory tract illness**. *American Journal of Epidemiology* Jan 2002;155(1):1-10. [#33, 34]

- 48. Lee LJ, <u>Chan CC</u>, Chung CW, Ma YC, Wang GS, Wang JD. **Health risk** assessment on residents exposed to chlorinated hydrocarbons contaminated in groundwater of a hazardous waste site. *Journal of Toxicology and Environmental Health Part A* Feb 2002;65(3-4):219-235. [#35, 27]
- Ma HW, Lai YL, <u>Chan CC*</u>. Transfer of dioxin risk between nine major municipal waste incinerators in Taiwan. Environment International Apr 2002;28(1-2):103-110. [#36, 15]
- 50. Wong RH, Du CL, Wang JD, <u>Chan CC</u>, Luo JC, Cheng TJ. XRCC1 and CYP2E1 polymorphisms as susceptibility factors of plasma mutant p53 protein and anti-p53 antibody expression in vinyl chloride monomer-exposed polyvinyl chloride workers. Cancer Epidemiology Biomarkers and Prevention May 2002;11(5):475-482. [#37, 40]
- 51. Wang JL, Chen WL, Her GR, <u>Chan CC</u>. Validation of ozone precursor measurement through inter-comparison with NOx and CO measurement. Atmospheric Environment Jun 2002;36(18):3041-3047. [#38, 10]
- 52. Huang SL, Cheng WL, Lee CT, Huang HC, <u>Chan CC</u>. Contribution of endotoxin in macrophage cytokine response to ambient particles in vitro. *Journal of Toxicology and Environmental Health Part A* Sep 2002;65(17):1261-1272. [#39, 29]
- 53. Cheng TJ, Hwang JS, Wang PY, Tsai CF, Chen CY, Lin SH, <u>Chan CC</u>. **Effects of concentrated ambient particles on heart rate and blood pressure in pulmonary hypertensive rats**. *Environmental Health Perspectives* Feb 2003;111(2):147-150. [#40, 32]
- 54. Huang SL, Hsu MK, <u>Chan CC*</u>. Effects of submicrometer particle compositions on cytokine production and lipid peroxidation of human bronchial epithelial cells. *Environmental Health Perspectives* Apr 2003;111(4):478-482. [#41, 47]
- 55. Hu SW, Cheng TJ, ChangChien GP, <u>Chan CC*</u>. Association between dioxins/furans exposures and incinerator workers' hepatic function and blood lipids. *Journal of Occupational and Environmental Medicine* Jun 2003;45(6):601-

- 56. Chan CC*, Lin YP, Chen HH, Chang TY, Cheng TJ, Chen LS. A population-based study on the immediate and prolonged effects of the 1999 Taiwan earthquake on mortality. *Annals of Epidemiology* Aug 2003;13(7):502-508. [#43, 20]
- 57. Cheng TJ, Kao HP, <u>Chan CC</u>, Chang WP. **Effects of ozone on DNA single-strand** breaks and 8-oxoguanine formation in A549 cells. *Environmental Research* Nov 2003;93(3):279-284. [#44, 28]
- 58. Chang TY, Jain RM, Wang CS, <u>Chan CC*</u>. Effects of occupational noise exposure on blood pressure. *Journal of Occupational and Environmental Medicine* Dec 2003;45(12):1289-1296. [#45, 12]
- 59. Wang JL, Din GZ, <u>Chan CC</u>. Validation of a laboratory-constructed automated gas chromatograph for the measurement of ozone precursors through comparison with a commercial analogy. *Journal of Chromatography A* Feb 2004;1027(1-2):11-18. [#46, 24]
- 60. Chang TY, Lee LJ, Wang JD, Shie RH, <u>Chan CC*</u>. Occupational risk assessment on allergic contact dermatitis in a resin model making process. *Journal of Occupational Health* Mar 2004;46(2):148-152. [#48, 0]
- 61. Hu SW, ChangChien GP, <u>Chan CC*</u>. **PCDD/Fs levels in indoor environments and blood of workers of three municipal waste incinerators in Taiwan**. *Chemosphere* Apr 2004;55(4):611-620. [#49, 20]
- 62. Chen TH, Chiu YH, Luh DL, Yen MF, Wu HM, Chen LS, Tung TH, Huang CC, Chan CC, Shiu MN, Yeh YP, Liou HH, Liao CS, Lai HC, Chiang CP, Peng HL, Tseng CD, Yen MS, Hsu WC, Chen CH. Community-based multiple screening model: design, implementation, and analysis of 42,387 participants. *Cancer* Apr 2004;100(8):1734-1743. [#50, 61]
- 63. Chen YC, Huang LM, <u>Chan CC</u>, Su CP, Chang SC, Chang YY, Chen ML, Hung CC, Chen WJ, Lin FY, Lee YT. **SARS in hospital emergency room**. *Emerging*

- 64. Lei YC, <u>Chan CC</u>, Wang PY, Lee CT, Cheng TJ. **Effects of Asian dust event** particles on inflammation markers in peripheral blood and bronchoalveolar lavage in pulmonary hypertensive rats. *Environmental Research* May 2004;95(1):71-76. [#52, 52]
- 65. Chang CC, Hwang JS, Chan CC, Wang PY, Hu TH, Cheng TJ. **Effects of** concentrated ambient particles on heart rate, blood pressure, and cardiac contractility in spontaneously hypertensive rats. *Inhalation Toxicology* Jun 2004;16(6-7):421-429. [#53, 29]
- 66. Chan CC*, Chuang KJ, Shiao GM, Lin LY. **Personal exposure to submicrometer particles and heart rate variability in human subjects**. *Environmental Health Perspectives* Jul 2004;112(10):1063-1067. [#54, 57]
- 67. Hwang JS, Hu TH, <u>Chan CC</u>. **Air pollution mix and emergency room visits for respiratory and cardiac diseases in Taipei**. *Journal of Data Science* Oct 2004;2(4):311-327.
- 68. Lei YC, Chen MC, <u>Chan CC</u>, Wang PY, Lee CT, Cheng TJ. **Effects of** concentrated ambient particles on airway responsiveness and pulmonary inflammation in pulmonary hypertensive rats. *Inhalation Toxicology* Oct-Nov 2004;16(11-12):785-792. [#46, 4]
- 69. Chen LS, Tsai CY, Liu TY, Tung TH, Chiu YH, Chan CC, Liou DM, Chen TH. Feasibility of tele-ophthalmology for screening for eye disease in remote communities. *Journal of Telemedicine Telecare* Dec 2004;10(6):337-341. [#123, 3]
- 70. Yang KL, Ting CC, Wang JL, Wingenter OW, <u>Chan CC</u>. **Diurnal and seasonal** cycles of ozone precursors observed from continuous measurement at an urban site in Taiwan. *Atmospheric Environment* May 2005;39(18):3221-3230. [#55, 22]
- 71. <u>Chan CC*</u>, Wu TH. Effects of ambient ozone exposure on mail carriers' peak expiratory flow rates. *Environmental Health Perspectives* Jun 2005;113(6):735-738. [#56, 12]

- 72. Chiang WK, <u>Chan CC</u>, Tseng CT, Wang JD. **Reduction of post-shift traffic** injuries among gasoline station workers: Are they related to the reduction of occupational gasoline vapor exposure? *Accident Analysis and Prevention* Sep 2005;37(5):956-961. [#57, 1]
- 73. Chang CC, Hwang JS, <u>Chan CC</u>, Wang PY, Hu TH, Cheng TJ. **Effects of**concentrated ambient particles on heart rate variability in spontaneously
 hypertensive rats. *Journal of Occupational Health* Nov 2005;47(6):471-480. [#60, 14]
- 74. Chuang KJ, <u>Chan CC*</u>, Shiao GM, Su TC. Associations between submicrometer particles exposures and blood pressure and heart rate in patients with lung function impairments. *Journal of Occupational and Environmental Medicine* Nov 2005;47(11):1093-1098. [#59, 14]
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- 76. Chuang KJ, <u>Chan CC*</u>, Chen NT, Su TC, Lin LY. **Effects of particle size fractions** on reducing heart rate variability in cardiac and hypertensive patients.

 Environmental Health Perspectives Dec 2005;113(12):1693-1697. [#61, 44]
- 77. Chan CC*, Chuang KJ, Su TC, Lin LY. Association between nitrogen dioxide and heart rate variability in a susceptible population. European Journal of Cardiovascular Prevention and Rehabilitation Dec 2005;12(6):580-586. [#62, 21]
- 78. Lin CH, Du CL, <u>Chan CC</u>, Wang JD. **Saved by a material safety data sheet**. *Occupational Medicine-Oxford* Dec 2005;55(8):635-637. [#124, 1]
- 79. Lin YP, Feng TY, Chuang YL, <u>Chan CC</u>, Wang JD. **Introduction to the mortality** strata and the basic in dicators of the World Health Report: Taiwan and the Western Pacific region countries. *Taiwan Journal of Public Health* 2006;25(2):163-168.

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- 81. Hu SW, Lin YY, Wu TC, Hong CC, <u>Chan CC</u>, Lung SCC. Workplace air quality and lung function among dental laboratory technicians. *American Journal of Industrial Medicine* Feb 2006;49(2):85-92. [#63, 4]
- 82. Hung J, Lin CH, Wang JD, <u>Chan CC*</u>. Exhaled carbon monoxide level as an indicator of cigarette consumption in a workplace cessation program in Taiwan. *Journal of the Formosan Medical Association* Mar 2006;105(3):210-213. [#65, 19]
- 83. Chan CC*, Chuang KJ, Chien LC, Chen WJ, Chang WT. **Urban air pollution and emergency admissions for cerebrovascular diseases in Taipei, Taiwan**.

 European Heart Journal May 2006;27(10):1238-1244. [#66,44]
- 84. Chiu YH, Chen LS, <u>Chan CC</u>, Liou DM, Wu SC, Kuo HS, Chang HJ, Chen THH. **Health information system for community-based multiple screening in Keelung, Taiwan (Keelung community-based Integrated Screening No. 3)**. *International Journal of Medical Informatics* May 2006;75(5):369-383. [#67, 13]
- 85. Chan CC*, Tsai FJ. **Taiwan and the global outbreak alert and response network.** *Lancet* Jun 2006;367(9526):1901-1902. [#125, 2]
- 86. Lee CT, Chuang MT, <u>Chan CC</u>, Cheng TJ, Huang SL. **Aerosol characteristics** from the Taiwan aerosol supersite in the Asian yellow-dust periods of 2002. *Atmospheric Environment* Jun 2006;40(18):3409-3418. [#68, 35]
- 87. Su TC, <u>Chan CC*</u>, Liau CS, Lin LY, Kao HL, Chuang KJ. **Urban air pollution** increases plasma fibrinogen and plasminogen activator inhibitor-1 levels in susceptible patients. European Journal of Cardiovascular Prevention & Rehabilitation Oct 2006;13(5):849-852. [#69, 12]
- 88. Lo SH, Chan CC, Chen WC, Wang JD. Grand rounds: Outbreak of hematologic

- abnormalities in a community of people exposed to leakage of fire extinguisher gas. *Environmental Health Perspectives* Nov 2006;114(11):1713-1717. [#70, 2]
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- 90. Chang CC, Hwang JS, <u>Chan CC</u>, Wang PY, Cheng TJ, **Effects of concentrated ambient particles on heart rate, blood pressure, and cardiac contractility in spontaneously hypertensive rats during a dust storm event.** *Inhalation Toxicology*, 2007. 19(11): p. 973 978. [#71, 7]
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