

(A) 學術期刊論文 (Refereed Papers)

1. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Hsiao, Hung-Kun, and Shih, Tung-Sheng, "Field Test of Personal Respirable Dust Samplers," *Journal of Occupational Safety and Health*, Vol. 6, 1998, 3, pp. 23-38 (in Chinese).
2. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Lin, Kao-Chin and Shih, Tung-Shen, "Development of a Personal Respirable Dust Sampler," *Journal of Occupational Safety and Health*, Vol. 6, 1998, 6, pp. 1-10 (in Chinese).
3. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Wang, Si-Ho and Shih, Tung-Shih, "Development of a Personal Denuder Sampler," *Journal of Occupational Safety and Health*, Vol. 8, 2000, 6, pp. 175-189 (in Chinese).
4. Huang, Cheng-Hsiung and Tsai, Chuen-Jinn, "Effect of Gravity on Particle Collection Efficiency of Inertial Impactors," *Journal of Aerosol Science*, Vol. 32, 2001, 3, pp. 375-387.
5. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Wang, So-Ho and Shih, Tung-Sheng, "Collection Efficiency and Capacity of three Samplers for Acidic and Basic Gases," *Environmental Science and Technology*, Vol. 35, 2001, 6, pp. 2572-2575.
6. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Wang, So-Ho and Shih, Tung-Sheng, "Design and Testing of a Personal Porous-Metal Denuder," *Aerosol Science and Technology*, Vol. 35, 2001, 7, pp. 611-616.
7. Huang, Cheng-Hsiung, Tsai, Chuen-Jinn and Shih, Tung-Sheng, "Particle Collection Efficiency of an Inertial Impactor with Porous Metal Substrates," *Journal of Aerosol Science*, Vol. 32, 2001, 9, pp. 1035-1044.
8. Huang, Cheng-Hsiung and Tsai, Chuen-Jinn, "The Particle Collection Efficiency Curves by the Porous Substrate of an Inertial Impactor," *Aerosol and Air Quality Research*, Vol. 2, 2002, 6, pp. 1-8.
9. Huang, Cheng-Hsiung and Tsai, Chuen-Jinn, "Influence of Impaction Plate Diameter and Particle Density on the Collection Efficiency of Round-Nozzle Inertial Impactors," *Aerosol Science and Technology*, Vol. 36, 2002, 6, pp. 714-720.
10. Tsai, Chuen-Jinn, Lee, Chin-I, Huang, Cheng-Hsiung and Lin, Jin-Shen, "Control of Particle Reentrainment by Wetting the Exposed Surface of Dust Samples," *Journal of Air and Waste Manage. Assoc.*, Vol. 53, 2003, 10, pp. 1191-1195.

11. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Lin, Yo-Chi and Shih, Tung-Sheng, "Field Test of a Porous-Metal Denuder Sampler," *Aerosol Science and Technology*, Vol. 37, 2003, 12, pp. 967-974.
12. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung and Lu, Hsiue-Hsing, "Removal of Air Pollutants in the Make-up Air of a Semiconductor Plant by Fine Water Spray," *Separation Science and Technology*, Vol. 38, 2003, 4, pp. 1429-1436.
13. Huang, Cheng-Hsiung and Tsai, Chuen-Jinn, "Mechanism of Particle Impaction and Filtration by the Dry Porous Metal Substrates of an Inertial Impactor," *Aerosol Science and Technology*, Vol. 37, 2003, 6, pp. 486-493.
14. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, Lu, Hen-Hin, Cheng, Yu-Hsung, and Lin, Jin-Sheng, "A Study of Nylon Filter in Adsorbing HCl and HNO₃ Gases," *Journal of Occupational Safety and Health*, Vol. 11, 2003, 9, pp. 219-226 (in Chinese).
15. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung and Lu, Hsen-Hsin, "Adsorption Capacity of a Nylon Filter of Filter Pack System for HCl and HNO₃ Gases," *Separation Science and Technology*, Vol. 39, 2004, 3, pp. 629-643.
16. Tsai, Chuen-Jinn, Huang, Cheng-Hsiung, "A Universal Calibration Curve for the TSI Aerodynamic Particle Sizer," *Aerosol Science and Technology*, 2004, 5, pp. 467-474.
17. Huang, Cheng-Hsiung, Ho, Yun-Tai and Tsai, Chuen-Jinn, "Measurement of Inorganic Acidic Gases and Particles from the Stack of Semiconductor and Optoelectronic Industries," *Separation Science and Technology*, Vol. 39, 2004, 9, pp. 2223-2234.
18. Huang, Cheng-Hsiung, "Modeling Sulfur Dioxide Absorption by Fine Water Spray.," *J. Environ. Sci. Health, Part A.*, Vol. 40,, 2005, 11, 2027-2039.
19. Huang, Cheng-Hsiung, Chen-Shen Chang, Sheh-Hsun Chang, Chuen-Jinn Tsai, Tung-Sheng Shih, and Da-Toung Tang, "Use of porous foam as the substrate of an impactor for respirable aerosol sampling," *Journal of Aerosol Science*, Vol. 36, 2005, 11, pp. 1373-1386.
20. Huang, Cheng-Hsiung, "Predicting Cutoff Aerodynamic Diameter and Sharpness of Single Round-Nozzle Impactors with a Finite Impaction Plate Diameter," *J. Air & Waste Manage. Assoc.*, Vol. 55, 2005, 12, 1858-1865.
21. Huang, Cheng-Hsiung, Lee, Chin-I, and Tsai, Chuen-Jinn, "Reduction of Particle Re-entrainment Using Porous Fence in front of Dust Samples," *Journal of Environmental Engineering-ASCE*, Vol. 131, 2005,

- 12, pp. 1644-1648.
22. Tsai, Chuen-Jinn, Lin, Chia-Hung, Wang, Yu-Min, Huang, Cheng-Hsiung, Li, Shou-Nan, Wu, Zong-Xue and Wang, Feng-Cai, "An Efficient Venturi Scrubber System to Remove Submicron Particles in Exhaust Gas," *J. Air & Waste Manage. Assoc.*, Vol. 55, 2005, 3, pp. 319-325.
 23. Huang, Cheng-Hsiung, "Theoretical Model of Absorption of Ammonia by Fine Water Spray," *Environ. Eng. Sci.*, Vol. 22, 2005, 7, pp. 535-541.
 24. Tsai, Chuen-Jinn, Chang, Chung-Tso, and Huang, Cheng-Hsiung, "Direct field observation of the relative humidity effect on the beta gauge readings," *J. Air & Waste Manage. Assoc.*, Vol. 55, 2006, 6, 834-840.
 25. Huang, Cheng-Hsiung, Chen-Shen Chang, Sheh-Hsun Chang, Chuen-Jinn Tsai, Tung-Sheng Shih, and Da-Toung Tang, "Development of a Personal Inertial Impactor for Respirable Dust Sampling," *Journal of Occupational Safety and Health*, Vol. 14 (2), 2006, 6, 79-86..
 26. Huang, Cheng-Hsiung, Lin, T-S, Chang, S-H, Tsai, C-J, "Prediction of Dimensionless Cutsizes for Size-Fractionated Measurements of Particles that Impact on a Sintered Stainless-Steel Filter," *Separation Science and Technology*, Vol. 42, 2007, 3, pp. 477-491.
 27. Huang, Cheng-Hsiung, Tsai, C-J, Wang, Y-M, "Control Efficiency of Submicron Particles by an Efficient Venturi Scrubber System," *Journal of Environmental Engineering-ASCE*, Vol. 133, 2007, 4, pp. 454-461.
 28. Huang, Cheng-Hsiung, Chang, C-L, Lin, T-S, "Classification of Particles in Particle-Laden Stream through a Stainless Steel Fibrous Filter," *Korean J. Chem. Eng.*, Vol. 24, 2007, 5, pp. 413-417.
 29. Huang, Cheng-Hsiung, "Field comparison of real-time PM_{2.5} readings from a beta gauge monitor and a light scattering method," *Aerosol and Air Quality Research*, Vol. 7, 2007, 6, pp. 239-250.
 30. Huang, C. H., Chang, C-L, "Particulate matter removal from a gas stream using high-voltage discharge plasma," *Separation Science and Technology*, Vol. 43, 2008, 6, pp. 1260-1271.
 31. Huang, C. H., Tai, C.-Y., "Relative humidity effect on PM_{2.5} readings recorded by collocated beta gauge monitors," *Environ. Eng. Sci.*, Vol. 25, 2008, 7, pp. 1079-1089.
 32. Huang, C. H., Chang, C.-L., "Removal of Particulate Matter from an Air Stream by a Packed Dielectric Barrier Discharge," *Korean J. Chem. Eng.*, Vol. 25, 2008, 9, pp. 1477-1482.
 33. Huang, C. H., Tai, C. Y., "Improving Estimation of Real-Time

- Concentration for Inhalable Particles < 10 μm from a Light Scattering Monitor.," J. Environ. Sci. Health, Part A. (accepted), 2009, 9.
34. C. J. Tsai, G. Y. Lin, H. L. Chen, CH Huang, M. Alonso, "Enhancement of Extrinsic Charging Efficiency of a Nanoparticle Charger with Multiple Discharging Wires," *Aerosol Science and Technology*, Vol. 44, 2010, 10, pp. 807-816.
 35. M. Alonso, F.J. Alguacil, CH Huang, "Analytical approximation to the fully developed concentration profile of diffusive aerosol particles in laminar flow in a circular tube," *Journal of Aerosol Science*, Vol. 41, 2010, 4, pp. 413-417.
 36. CH Huang, Y. C. Lin, "Influence of substrate porosity and thickness on the collection efficiency of an impactor stage," *Journal of Aerosol Science*, Vol. 41, 2010, 4, pp. 364-372.
 37. CH Huang, C.-Y. Tai, C.-Y. Huang, C.-J. Tsai, C.-W. Chen, C.-P. Chang, T.-S. Shih, "Measurements of respirable dust and nanoparticle concentrations in a titanium dioxide pigment production factory," *J. Environ. Sci. Health, Part A.*(accepted), Vol. 45, 2010, 8, pp. 1227-1233.
 38. CH Huang, M Alonso, "Nanoparticle electrostatic loss within corona needle charger during particle-charging process," *Journal of Nanoparticle Research*, Vol. 13, 2011, 1, pp. 175-184.
 39. C J Tsai, CY Huang, SC Chen, CE Ho, CH Huang, CW Chen, CP Chang, SJ Tsai, MJ Ellenbecker, "Exposure assessment of nano-sized and respirable particles at different workplaces," *Journal of Nanoparticle Research*, Vol. 13, 2011, 9, pp. 4161-4172.
 40. CH Huang, M. Alonso, "Influence of Particle Location on the Number of Charges per Charged Particle at the Outlet of a Needle Charger," *J. Air & Waste Manage. Assoc.*, Vol. 62, 2012, 1, pp. 87-91.
 41. M. Alonso, C.-H. Huang, "Particle Segregation in Aerosol Flownce," *Journal of Aerosol Scie*, Vol. 81, 2015, 1, pp. 24-33.
 42. M. Alonso, C-H Huang, "High-efficiency electrical charger for nanoparticles," *Journal of Nanoparticle Research*, Vol. 17, 2015, 8, pp. 332-339.
 43. M. Alonso, M. Carsi, C-H Huang, "Using the fully developed concentration profile to determine particle penetration in alaminar flow tube," *Journal of Aerosol Science*, Vol. 97, 2016, 5, pp. 34-37.