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### Research interest:

Computational Fluid Mechanics, Computational Hydraulics, Ecological Hydraulics, Building and Environment

### Selected publications:

1. Chen, A.S., Hsu, M.H., Chen, T.S., and Chang, T.J. (2005). "An Integrated Inundation Model for Highly Developed Urban Areas." *Water Science and Technology*, Vol. 51, No. 2, 221-229. (SCI)
2. Chang, T.J., Hsieh, Y.F., and Kao, H.M. (2006). "Numerical Investigation of Airflow Pattern and Particulate Matter Transport in Naturally Ventilated Multi-Room Buildings." *Indoor Air*, Vol. 16, Issue 2, 136-152. (SCI)
3. Chang, T.J., and Tu, Y.L. (2007). "Evaluation of Monthly Capacity Factor of WECS Using Chronological and Probabilistic Wind Speed Data: A Case Study of Taiwan." *Renewable Energy*, Vol. 32, Issue 12, 1999-2010. (SCI)
4. Chang, T.J., and Hu, T.S. (2008). "Transport Mechanism of Airborne Particulate Matter in Partitioned Indoor Environment." *Building and Environment*, Vol. 43, Issue 5, 886-895. (SCI)
5. Chang, T.J., Kao, H.M., Wu, Y.T., and Huang, W.H. (2009). "Transport Mechanisms of Coarse, Fine and Very Fine Particulate Matter in Urban Street Canopies for Different Building Layouts." *Journal of the Air & Waste Management Association*, Vol. 59, 196-206. (SCI)