

ผศ.ดร.ธงชัย ขนาบแก้ว

Thongchai Kanabkaew, D.Eng.



Position: Assistant Professor

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Education

2012: D.Eng. (Environmental Engineering and Management), Asian Institute of Technology, Thailand

2004: M.Sc. (Environmental Technology), King Mongkut's University of Technology Thonburi, Thailand

2001: B.Eng. (Civil Engineering), Prince of Songkla University, Thailand

Expertise

Emission inventory for air pollutants and GHGs; chemical transport model for aerosol and acid deposition; satellite data for air quality management; IoT sensors for air quality monitoring.

Books and chapters in books

Permadi, D.A., Kim Oanh, N.T., Kanabkaew, T. and Sothea, K. (2014). Emission inventory for air quality modeling, in Kim Oanh, N.T. (Editor). Improving air quality in Asian developing countries: compilation of research findings, NARENCA.

Shrestha, R.M., Kim Oanh, N.T., Shrestha, R. P., Rupakheti, M., Rajbhandari, S., Permadi, D.A., Kanabkaew, T. and Iyngararasan, M. (2013). Atmospheric Brown Cloud (ABC) Emission Inventory Manual, United Nations Environment Programme, Nairobi, Kenya.

Engel-Cox, J.A., Huff, A.L., Kanabkaew, T. and Kim Oanh, N.T. (2012). Satellite tools for air quality management with focus on particulate matter, in Kim Oanh, N.T. (Editor). Integrated air quality management: Asian case studies, CRC press.

Kim Oanh, N.T., Permadi, D.A., Bao-Ning, Z., Quang Huy, T.N., Phuong, N.L. Kanabkaew, T. and Iqbal, A. (2012). Applications of photochemical smog models for assessment of ozone, particulate matter air quality, and acid deposition in Asian cities, in Kim Oanh, N.T. (Editor). Integrated air quality management: Asian case studies, CRC press.

Publications

Koomsang, R., Chuchue, S. and Kanabkaew, T. (2015). Applications of atmospheric dispersion model for air quality assessment of NO_x and SO₂ from waste incinerator. Environment and Natural Resources Journal, 13(1), 21-27.

Kanabkaew, T., (2015). 3D photochemical dispersion models for secondary air pollutant study: from input data preparation to model performance evaluation. KKU Research Journal, 20(2), 198-214.

Kanabkaew, T., Rakmak, N. and Choosaeng, S. (2014) Assessment of hydrogen sulfide dispersion from dumpsite using AERMOD modeling system. Advanced Materials Research, 931-932, 650-654.

Kanabkaew, T. (2013). Prediction of hourly particulate matter concentrations in Chiangmai, Thailand using MODIS aerosol optical depth and ground-based meteorological data. EnvironmentAsia, 6(2), 65-70.

Kanabkaew, T. and Kim Oanh, N.T. (2011). Development of spatial and temporal emission inventory for crop residue field burning. Environmental Modeling and Assessment, 16(5), 453-464.

Selected proceedings

Kanabkaew, T. and Busing, K. (2015). Assessment of air pollution concentrations from brick kilns using atmospheric dispersion model. Air Pollution 2015, Valencia, Spain.

Kanabkaew, T. and Kongkul, K. (2014). Concentrations of particulate matters during semester and semester break at Nakhon Si Thammarat municipality, Southern Thailand. The 2nd International Conference on Environmental Science and Technology (ICOEST2014), Antalya, Turkey.

Kanabkaew, T., Rattanarat, J. and Petcharoen, S. (2014). Development of a GIS-based forest fire risk map: case of Kuan Kreng swamp forest, Southern Thailand. The 5th International Conference on Sustainable Energy and Environment (SEE 2014), Bangkok, Thailand.