

## **Assoc. Prof. Dr. Kasemsan Manomaiphiboon**

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### **1. Educational Background**

Year A.D. 2004 Ph.D. (Environmental Engineering), Georgia Institute of Technology  
Atlanta, United States

Year A.D. 1999 M.Eng. (Environmental Engineering), University of Cincinnati, United States

Year A.D. 1993 B.Eng. (Environmental Engineering), Chulalongkorn University, Thailand  
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### **RESEARCH INTEREST**

- Urban-regional climate and air quality in Thailand and Mekong subregion
- Ambient energy potentials and associated factors
- Extreme events related to climate and air pollution
- Data science application to important environmental and energy problems

### **PUBLICATIONS**

#### **International Journal**

- Li, Q., Zhang, K., Li, R., Yang, L., Yi, Y., Liu, Z., Zhang, X., Feng, J., Wang, Q., Wang, W., Huang, L., Wang, Y., Wang, S., Chen, H., Chan, A., Latif, M.T., Ooi, M.C.G., Manomaiphiboon, K., Yu, J., and Li, L., (2023) Underestimation of biomass burning contribution to PM<sub>2.5</sub> due to its chemical degradation based on hourly measurements of organic tracers: A case study in the Yangtze River Delta (YRD) region, China. *Science of the Total Environment*. 872.May 2023
- Huang, L., Zhu, Y., Liu, H., Wang, Y., Allen, D.T., Chel Gee Ooi, M., Manomaiphiboon, K., Talib Latif, M., Chan, A., and Li, L., (2023) Assessing the contribution of open crop straw burning to ground-level ozone and associated health impacts in China and the effectiveness of straw burning bans. *Environment International*. 171.January 2023
- Aman, N., Manomaiphiboon, K., Pala-En, N., Devkota, B., Inerb, M., and Kokkaew, E., (2023) A Study of Urban Haze and Its Association with Cold Surge and Sea Breeze for Greater Bangkok. *International Journal of Environmental Research and Public Health*. 20(4).February 2023
- Devkota, B., Manomaiphiboon, K., Trinuruk, P., Trang, H.T., and Paton, C., (2022) Offshore Winds in the Gulf of Thailand: Climatology, Wind Energy Potential, Stochastic Persistence, Tropical Cyclone Influence, and Teleconnection. *Asia-Pacific Journal of Atmospheric Sciences*. 58(3): p. 315-331.August 2022
- Aman, N., Manomaiphiboon, K., Suwattiga, P., Assareh, N., Limpaseni, W., Suwanathada, P., Soonsin, V., and Wang, Y., (2022) Visibility, aerosol optical depth, and low-visibility events in Bangkok during the dry season and associated local weather and synoptic patterns. *Environmental Monitoring and Assessment*. 194(4).April 2022
- Wang, Y., Li, H., Feng, J., Wang, W., Liu, Z., Huang, L., Yaluk, E., Lu, G., Manomaiphiboon, K., Gong, Y., Traore, D., and Li, L., (2021) Spatial Characteristics of PM<sub>2.5</sub> Pollution among Cities and Policy Implication in the Northern Part of the North China Plain. *Atmosphere*. 12(1).Jan

- Lu, G., Yu, E., Wang, Y., Li, H., Cheng, D., Huang, L., Liu, Z., Manomaiphiboon, K., and Li, L., (2021) A Novel Hybrid Machine Learning Method (OR-ELM-AR) Used in Forecast of PM2.5 Concentrations and Its Forecast Performance Evaluation. *Atmosphere*. 12(1).Jan
- Devkota, B., Manomaiphiboon, K., Trinuruk, P., Trang, H.T., and Paton, C., (2021) Offshore Winds in the Gulf of Thailand: Climatology, Wind Energy Potential, Stochastic Persistence, Tropical Cyclone Influence, and Teleconnection. *Asia-Pacific Journal of Atmospheric Sciences*
- Chea, K., Manomaiphiboon, K., Aman, N., Thepa, S., Junpen, A., and Devkota, B., (2021) Ambient thermal comfort analysis for four major urban areas in Thailand, Cambodia, and Laos: Variability, trend, factor attribution, and large-scale climatic influence. *Science Asia*. 47(4): p. 618-628.October 2021
- Kamma, J., Manomaiphiboon, K., Aman, N., Thongkamdee, T., Chuangchote, S., and Bonnet, S., (2020) Urban heat island analysis for Bangkok: multi-scale temporal variation, associated factors, directional dependence, and cool island condition. *Scienceasia*. 46(2): p. 213-223.Apr
- Aman, N., Manomaiphiboon, K., Pengchai, P., Suwanathada, P., Srichawana, J., and Assareh, N., (2019) Long-Term Observed Visibility in Eastern Thailand: Temporal Variation, Association with Air Pollutants and Meteorological Factors, and Trends. *Atmosphere*. 10(3).Mar 2019
- Christidis, N., Manomaiphiboon, K., Ciavarella, A., and Stott, P.A., (2018) THE HOT AND DRY APRIL OF 2016 IN THAILAND. *Bulletin of the American Meteorological Society*. 99(1): p. S128-S132.January 2018
- Assareh, N., Prabamroong, T., Manomaiphiboon, K., Theramongkol, P., Leungsakul, S., Mittrjit, N., and Rachiwong, J., (2016) Analysis of observed surface ozone in the dry season over Eastern Thailand during 1997–2012. *Atmospheric Research*. 178–179: p. 17-30.September 2016
- Field, R.D., Spessa, A.C., Aziz, N.A., Camia, A., Cantin, A., Carr, R., de Groot, W.J., Dowdy, A.J., Flannigan, M.D., Manomaiphiboon, K., Pappenberger, F., Tanpipat, V., and Wang, X., (2015) Development of a Global Fire Weather Database. *Natural Hazards and Earth System Sciences*. 15(6): p. 1407-1423.June 2015
- Manomaiphiboon, K., Octaviani, M., Torsri, K., and Towprayoon, S., (2014) Projected changes in means and extremes of temperature and precipitation over Thailand under three future emissions scenarios. *Climate Research*. 58(2): p. 97-115.February 2014
- Torsri, K., Octaviani, M., Manomaiphiboon, K., and Towprayoon, S., (2013) Regional Mean and Variability Characteristics of Temperature and Precipitation over Thailand in 1961-2000 by a Regional Climate Model and Their Evaluation. *Theoretical and Applied Climatology*. 113(1-2): p. 289-304.July 2013
- Prabamroong, T., Manomaiphiboon, K., Limpaseni, W., Sukhapan, J., and Bonnet, S., (2012) Ozone and its potential control strategy for Chon Buri city, Thailand. *Journal of the Air & Waste Management Association*. 62(12): p. 1411-1422.december 2012
- Phan, T.T. and Manomaiphiboon, K., (2012) Observed and Simulated Sea Breeze Characteristics over Rayong Coastal Area, Thailand. . *Meteorology and Atmospheric Physics*. 116(3-4): p. 95-111.May 2012
- Chusai, C., Manomaiphiboon, K., Saiyasitpanich, P., and Thepanondh, S.a., (2012) NO2 and SO2 Dispersion Modeling and Relative Roles of Emission Sources over Map Ta Phut

Industrial Area, Thailand. *Journal of the Air and Waste Management Association* 62(8): p. 934-947. August 2012

- Octaviani, M. and Manomaiphiboon, K., (2011) Performance of Regional Climate Model RegCM3 over Thailand Climate Research. 47(3): p. 171-186. June 2011
- Liao, K.-J.T., E; Russell, A. G; Amar, P; He, S; Manomaiphiboon, K; Woo, J.-H, (2010) Cost Analysis of Impacts of Climate Change on Regional Air Quality. *Journal of Air and Waste Management Association (AWMA)*. 60(2): p. 193-203. February 2010
- Liao, K.-J.T., E; Manomaiphiboon, K; Wang, C; Woo, J.-H; Amar, P; He, S; Russell, A. G, (2009) Quantification of the impact of climate uncertainty on regional air quality. *Atmospheric Chemistry and Physics*. 9(3): p. 865-878. February 2009
- Pham, T.B.T.M., K.; Vongmahadlek, C., (2008) Development of an Inventory and Temporal Distribution Profiles of Emissions from; Power Plants and Industrial Facilities in Thailand. *Science of the Total Environment*. 397(1-3): p. 103-118. 1 July 2008
- Manomaiphiboon, K.P., Sun-Kyoung; Russell, A.G., (2008) Accounting for high-order correlations in probabilistic characterization of environmental variables, and evaluation Stochastic Environmental Research and Risk Assessment (SERRA). 22(2): p. 159-168. February, 2008
- Liao, K.-J.T., E; Napelenok, S. L; Manomaiphiboon, K; Woo, J.-H; Amar, P; He, S; Russell, A. G (2008) Current and Future Linked Responses of Ozone and PM<sub>2.5</sub> to Emissions Controls. *Environmental Science and Technology*. 42(13): p. 4670-4675. July 2008
- Liao, K.-J.T., E; Manomaiphiboon, K; Napelenok, S. L; Woo, Jung-Hun; He, Shan; Amar, P; Russell, A. G, (2007) Sensitivities of Ozone and Fine Particulate Matter Formation to Emissions under the impact of Potential Future Climate Change. *Environmental Science & Technology*. 41(24): p. 8355-8361. November 16, 2007

### **International Conference**

- Devkota, B., Manomaiphiboon, K., and Trang, T.H. (2020) Wind Energy Potential in Different Wind Regimes of the Gulf of Thailand. in 14th South East Asian Technical University Consortium 2020 (SEATUC 2020). Bangkok, Thailand. 27-28 February 2020.
- Devkota, B., Manomaiphiboon, K., Trang, T.H., and Trinuruk, P. (2019) Seasonal variability of wind energy in the Gulf of Thailand from a reanalysis-data perspective. in International Conference on Sustainable Energy and Green Technology (SEGT 2019). Bangkok, Thailand. 11-14 December 2019.
- Chea, K., Manomaiphiboon, K., Aman, N., Devokta, B., and Kamma, J. (2019) An investigation of heat index in Phnom Penh of Cambodia and influence of certain large-scale climate modes. in 13th Southeast Asian Technical University Consortium Symposium (SEATUC2019). Hanoi, Vietnam. 14-15 March 2019.
- Shokoohinia, P., Manomaiphiboon, K., Assareh, N., Chusai, C., Kerkkaiwan, S., and Unapumnuk, K. (2018) An impact assessment of smoke haze from Indonesia on air quality in Songkhla, Thailand. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November 2018.
- Hoang, T.-T., Manomaiphiboon, K., Assareh, N., Singhrattana, N., and Chewapongpun, P. (2018) Assessment of selected three satellite precipitation products at a sub-daily scale. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November 2018.

- Devkota, B., Manomaiphiboon, K., Trang, T.H., and Assareh, N. (2018) Comparing Winds from JRA-55 and Tower Measurement at Selected Coastal Sites In Thailand in 7th International Conference on Sustainable Energy and Environment (SEE 2018). Bangkok, Thailand. 28-30 November 2018.
- Chea, K., Manomaiphiboon, K., Aman, N., and Kamma, J. (2018) Heat index intensity in Phnom Penh, Cambodia. in 7th international conference on Sustainable Energy and Environment. Bangkok, Thailand. 28-30 November 2018.
- Aman, N. and Manomaiphiboon, K. (2018) Potential Influence of Secondary Aerosols on Atmospheric Visibility in Eastern Thailand. in The 12th SEATUC Symposium (SEATUC2018). Yogyakarta, Indonesia. March 12-13, 2018.
- Kamma, J., Manomaiphiboon, K., and Aman, N. (2017) Temperature and Diurnal Temperature Range in Bangkok Metropolitan Area. in 11th Southeast Asian Technical University Consortium Symposium (SEATUC2017). Ho Chi Minh, Vietnam. March 13-14, 2017.
- Kamma, J., Manomaiphiboon, K., and Aman, N. (2017) An Investigation of Urban Cool Island in Bangkok and its Possible Causes. in The 4th Environment Asia International Conference on Practical Global Policy and Environmental Dynamics. Bangkok. June 21-23, 2017.
- Hoang, T.-T., Manomaiphiboon, K., and Assareh, N. (2017) Comparison of Sub-daily Satellite TRMM Precipitation Estimates and Observed Gauge Data for Lower Central Thailand. in The 11th SEATUC Symposium 2017. Ho Chi Minh, Vietnam. March 13-14, 2017.
- Aman, N., Manomaiphiboon, K., and Assareh, N. (2017) Visibility in the Dry Season over Highly Industrialized and Rural Areas of Eastern Thailand. in The 11th SEATUC Symposium (SEATUC2017). Ho Chi Minh, Vietnam March 13-14, 2017.
- Assareh, N., Manomaiphiboon, K., Prabamroong, T., Theramongkol, P., and Leungsakul, S. (2016) Surface Ozone Pollution in Eastern Thailand: Characterization, Analysis. and Policy-Related Implications. in The 5th International Conference on Environmental Engineering, Science, and Management. Bangkok, Thailand. 11-13 May 2016.
- Aman, N., Manomaiphiboon, K., Suwanathada, P., and Pengchai, P. (2016) Relationship of visibility with associated factors for Rayong city, Thailand. Special Session: Urban Climate & Urban Air Pollution. in The 6th International Conference on Sustainable Energy and Environment (SEE2016) in conjunction with 6th International Conference on Green and Sustainable Innovation (ICGSI2016) and 1st International Conference on Climate Technology and Innovation (CTI2016): Energy & Climate Change - Innovating for a Sustainable Future Thailand. Bangkok, Thailand. 28-30 November 2016.
- Aman, N., Manomaiphiboon, K., Assareh, N., Limpaseni, W., and Exell, R.H.B. (2016) Visibility in the Dry Season over a Southern Coastal Area of Eastern Thailand. in 6th International Conference on Sustainable Energy and Environment (SEE2016) in conjunction with 6th International Conference on Green and Sustainable Innovation (ICGSI2016) and 1st International Conference on Climate Technology and Innovation (CTI2016): Energy & Climate Change - Innovating for a Sustainable Future. Bangkok, Thailand. 28-30 November 2016.
- Assareh, N., Manomaiphiboon, K., and Prabamroong, T. (2015) Trend of Surface Ozone over an Industrialized Coastal Area in Eastern Thailand and Roles of Meteorology. in

The 9th Southeast Asian Technical University Consortium (SEATUC2015). Suranaree University of Technology, Nakhon Rachasima, Thailand. 27-30 July 2015.

- Aman, N., Manomaiphiboon, K., Suwattiga, P., Assareh, N., Soonsin, V., and Saetang, V. (2015) An Examination of Aerosol Optical Depth Observed during a Dry Season at a Site in Bangkok. in The 9th SEATUC Symposium (SEATUC2015). Nakhon Ratchasima, Thailand. July 27-30, 2015.
- Assareh, N., Manomaiphiboon, K., and Prabamroong, T. (2014) Synoptic circulation and ozone pollution over two major cities in eastern Thailand. in 5th International Conference on Sustainable Energy and Environment (SEE2014). Bangkok, Thailand. November 19-21, 2014.
- Kaigwara, W. and Manomaiphiboon, K. (2013) Time series Modeling for Short-Term Wind Speed Forecasting at an On-Hill Site. in 2013 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2013 AEDCEE). Bangkok, Thailand. 30-31 May 2013.
- Kaigwara, W. and Manomaiphiboon, K. (2013) Wind Speed Forecasting at a Coastal Industrialized Site in Thailand using Time-Series Modeling. in The 2nd International Conference on Environmental Engineering, Science and Management. Khon Kaen, Thailand. March 27-29, 2013.
- Prabamroong, T., Manomaiphiboon, K., Limpaseni, W., Sukhapan, J., and Bonnet, S. (2012) Speciated Anthropogenic and Biogenic VOC Emissions in Chon Buri Province, Thailand. in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. Bangkok, Thailand. 27-29 February 2012.
- Prabamroong, T., Manomaiphiboon, K., Chusai, C., and Sooktawee, S. (2012) Alternative Fuels and Their Roles on Surface Ozone: A Case Study of Chon Buri City, Thailand. in 6th Greater Mekong Subregion Academic and Research Network International Conference. Grand Paradise Hotel, Nong Khai, Thailand. 28-30 March 2012.
- Octaviani, M., Manomaiphiboon, K., and Prabamroong, T. (2012) Characteristics of Wind Shear Coefficient at 24 Selected Wind Monitoring Towers across Thailand. in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. Bangkok, Thailand. 27-29 February 2012.
- Manomaiphiboon, K. and Octaviani, M. (2012) Simulated Changes in Temperature and Precipitation over Thailand under IPCC's Emission Scenarios A2 and B1. in 6th Greater Mekong Subregion Academic and Research Network International Conference. Grand Paradise Hotel, Nong Khai, Thailand. 28-30 March 2012.
- Chusai, C., Manomaiphiboon, K., Saiyasitpanich, P., Leungsakul, S., Thepanondh, S., and Exell, R.H.B. (2012) Costs of NO<sub>x</sub> Emission Reduction in Map Ta Phut Industrial Area, Rayong Province, Thailand in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. Bangkok, Thailand. 27-29 February 2012.
- Torsri, K., Octaviani, M., Manomaiphiboon, K., and Towprayoon, S. (2011) Evaluation of RegCM3 Simulated Temperature and Precipitation and Their Extremes over the Years 1961-2000 for Thailand. in 9th Eco-Energy and Materials Science and Engineering Symposium. Wiang Inn Hotel, Chiang Rai, Thailand. 25-28 May, 2011.

- Prabamroong, T., Manomaiphiboon, K., Limpaseni, W., Sukhapan, J., and Bonnet, S. (2011) A Study of Surface O<sub>3</sub> Formation due to NO<sub>x</sub> and VOC Emissions Using a Photochemical Box Model for Chon Buri Province, Thailand. in 1st EnvironmentAsia International Conference. Rama Garden Hotel, Bangkok, Thailand. 22-25 March, 2011.
- Paton, C.P. and Manomaiphiboon, K. (2011) Enhanced Urban Wind Mapping for Bangkok City Using 1 km Mesoscale Modeling. in International Conference on Alternative Energy in Developing Countries and Emerging Economies. J.B. Hotel, Songkhla, Thailand. 25-26 May, 2011.
- Paton, C.P. and Manomaiphiboon, K. (2011) Technical and Developable Wind Energy Potential over Bangkok. in The International Conference & Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia. Amari Orchid Pattaya Hotel, Chon Buri, Thailand. 28-30 September 2011.
- Chusai, C., Manomaiphiboon, K., Saiyasitpanich, S., Leungsakul, S., Exell, R.H.B., and Thepanondh, S. (2011) Performance Assessment of AERMOD Dispersion Modeling System to Map Ta Phut Industrial Area, Rayong Province, Thailand. in 1st EnvironmentAsia International Conference. Rama Garden Hotel, Bangkok, Thailand. 22-25 March, 2011.
- Chusai, C., Manomaiphiboon, K., and Saiyasitpanich, S. (2011) Evaluation of AERMOD Dispersion Model for Map Ta Phut Industrial Area, Rayong Province, Thailand. in 9th Eco-Energy and Materials Science and Engineering Symposium. Wiang Inn Hotel, Chiang Rai, Thailand. 25-28 May 2011.
- Tung, P.T. and Manomaiphiboon, K. (2010) Some Aspects of Sea Breeze Characteristics in a Coastal Area of East Thailand. in GMSTEC 2010: International Conference for a Sustainable Greater Mekong Subregion. Bangkok, Thailand. 26-27 August 2010.
- Manomaiphiboon, K., Prabamroong, A., Phan, T.T., and Chanaprasert, W. (2010) Development of a New 1-km Resolution Wind Resource Database for Thailand Using Combined Mesoscale-Microscale Atmospheric Modeling. in Renewable Energy 2010 Joint with 4th International Solar Energy Society Conference, Asia Pacific Region. Yokohama, Japan. 27 June - 2 July 2010.
- Torsri, K., Octaviani, M., Manomaiphiboon, K., Towprayoon, S., and Xuejie, G. (2009) Regional Climate Modeling with 60-km Grid Resolution on Temperature for Thailand Using RegCM3 Model with Two Different Driving Meteorological Datasets. in 7th Eco-Energy and Materials Science and Engineering Symposium. Chiang Mai, Thailand. 12-19 November 2009.
- Prabamroong, A., Manomaiphiboon, K., Chanaprasert, W., and Rajpreeja, N. (2009) Development of a GIS Decision Support System for Wind Farm Installations in Thailand: Current State and Results. in World Renewable Energy Congress 2009 - Asia (WREC 2009-Asia). Bangkok, Thailand. 19-22 May 2009.
- Octaviani, M. and Manomaiphiboon, K. (2009) Sensitivity of Simulated Climate of an Indochina Peninsula Sub-Region to Choices of Driving Meteorological Field and Physical Parameterization in Regional Climate Model RegCM3 in Sustainable Development to Save the Earth: Technologies and Strategies Vision 2050: (SDSE2008) Bangkok, Thailand. 7-9 April 2009.
- Manomaiphiboon, K., Pengchai, P., Surapipith, V., Thepanondh, S., Onchang, R., Wiwatwattana, N., Tanpipat, V., and Garivait, S. (2009) Smoke-Haze Forecast Modeling

for Upper North Thailand during March-April 2008. in World Renewable Energy Congress 2009 - Asia (WREC 2009-Asia). Bangkok, Thailand. 19-22 May 2009.

- Manomaiphiboon, K. (2009) Performance of Wind Resource Prediction by a Mesoscale Meteorological Model for Selected Four Areas in Thailand. in 7th Eco-Energy and Materials Science and Engineering Symposium. Chiang Mai, Thailand. 12-19 November 2009.
- Octaviani, M. and Manomaiphiboon, K. (2008) Sensitivity Experiments of Two Convection Parameterization Schemes in Regional Climate Model RegCM3 for Part of Southeast Asia. in International Conference on Energy Security and Climate Change. Bangkok, Thailand 6-8 August 2008.
- Pham Thi Bich, T., Manomaiphiboon, K., and Vongmahadlek, C. (2007) Development of an Emission Inventory of Power Plants and Industrial Facilities in Thailand to Support Air Quality Management for Criteria Pollutants in The 2nd GMSARN International Conference on Sustainable Development: challenges and Opportunities for GMS. Pattaya, Thailand. December 12-14, 2007.
- Manomaiphiboon, K. (2007) Investigation of Wind Shear Characteristics at five 100-m Meteorological towers in Thailand in The 5th Eco-Energy and Materials Science and Engineering Symposium (5th EMSES). Pattaya, Thailand. November 21-24, 2007.
- Manomaiphiboon, K. (2007) Examination of Potential Fire Emissions for a March-2007 Haze Episode in Upper Northern Region of Thailand Using Trajectory Modeling. in Asian-Pacific Regional Conference on Practical Environmental Technology (APRC 2007). Khon Kaen, Thailand. 1-2 Aug. 2007.
- Pham Thi Bich, T., Vongmahadlek, C., and Manomaiphiboon, K. (2006) New Estimates of Gaseous Emissions From Thermal Power Plants in Thailand For Use in Regional Air Quality Management. in International Conference on Environment (ICENV 2006). Penang, Malaysia. 13-15 November 2006.
- Pham Thi Bich, T., Manomaiphiboon, K., and Vongmahadlek, C. (2006) Updated Emission Estimates of Ozone Precursors from Energy Consumption by Power Plants and Industrial Facilities in the Central and Eastern Regions of Thailand. in The 2nd Joint International Conference on Sustainable Energy and Environment (SEE 2006). Bangkok, Thailand. 21-23 November 2006.

### **National Journal**

- Nantawong, N., Aman, N., Manomaiphiboon, K., Chankasem, P., Surapipith, V., and Phongphipat, A., (Accepted) Assessment of Satellite Aerosol Optical Depth Over Greater Bangkok during 2003-2018. *Journal of Sustainable Energy & Environment*
- Chankasem, P., Manomaiphiboon, K., Devkota, B., Hoang, T.T., Nantawong, N., Chotamonsak, C., and Junpen, A., (Accepted) Satellite Precipitation Characteristics and Effects of Land Cover Change in Greater Bangkok *Journal of Sustainable Energy & Environment*
- Shokoohinia, P., Assareh, N., Manomaiphiboon, K., Chusai, C., Kerkkaiwan, S., Unapumnuk, K., and Aman, N., (2020) Impacts of Transboundary Smoke Haze from Biomass Burning in Lower Southeast Asia on Air Quality in Southern Thailand. *Journal of Sustainable Energy & Environment*. 11(1): p. 1-10. Jan. - Mar. 2020

- Hoang, T.T., Manomaiphiboon, K., Singhrattana, N., and Assareh, N., (2020) Evaluation of Multiple Sub-Daily Satellite Precipitation Products for Thailand. *Journal of Sustainable Energy & Environment*. 11(3): p. 81-89. Jul-Sep 2020
- Carina Paton and Kasemsan Manomaiphiboon. (2013) A Metropolitan Wind Resource Assessment for Bangkok, Thailand Part 1: Wind Resource Mapping. *Journal of Sustainable Energy & Environment*. 4(2): p. 69-76. Apr - Jun 2013
- T. B. T Pham, K Manomaiphiboon, and C Vongmahadlek. (2007) Updated Emission Estimates of Ozone Precursors from Energy Consumption by Power Plants and Industrial Facilities in the Central and Eastern Regions of Thailand. , 8,. . *Asian Journal on Energy and Environment*. 8(1): p. 483-489. JANUARY 2007

### **National Conference**

- K Manomaiphiboon, N Wiwatwattana, C Chusai, P Pengchai, V Surapipith, S Thepanondh, and M Octaviani. (2010) A Smoke-Haze Forecast Modeling System for Upper North Thailand: Development, Actual Forecast Application, Technology Transfer, and Future Direction. in 9th National Environmental Conference. March 24-27, 2010. Ubon Ratchathani, Thailand.
- K Manomaiphiboon, A Prabamroong, W Chanaprasert, N Rajpreeja, and T. T. Phan. (2010) A Dual-Map System of Wind Resource for Thailand: 1-km Resolution Wind Maps and GIS-Based Area-Selection Maps for Wind Turbine Installations. in Conference on Roles of Wind Energy in Electricity Generation for Thailand. 25 June 2010. Bangkok, Thailand.
- K Manomaiphiboon and A Prabamroong. (2010) Overall Wind Resource Potential of Thailand at 100 m. AGL - First Results Derived from a Developed Dual High-Resolution Info-Database System of Wind Resource. in 1st National Energy Congress: Energy Crisis and Solutions for Thailand. 18-20 February 2010. Bangkok, Thailand.
- Thao Pham Thi Bich, K. Manomaiphiboon, C Vongmahadlek, and P Tuaychareon. (2007) Development of Representative Temporal Distribution Profiles of Emissions from Power Plants and Industrial Facilities in Thailand. in 6th National Environmental Conference. 7-9 March 2007. Phitsanulok, Thailand.
- Ka Manomaiphiboon, Wb Limpaseni, and Hc Garivait. (2006) On Archiving and Harmonizing Emissions Inventories for Thailand: Public-Minded Cost-Conscious Perspective and Framework. in Thailand National Conference on Air Pollution Technology on Community with Better Breath. March 24-25, 2006. Bangkok, Thailand