SARAWUT THEPANONDH, Ph.D.

Dr. Sarawut Thepanondh, an Associate Professor and Faculty Dean at Mahidol University's Faculty of Public Health in Thailand, holds a Ph.D. in Atmospheric Science from Monash University in Australia. His primary research area centers on emission inventory and air pollution modeling. Dr. Thepanondh has a substantial track record in air pollution management research and has supervised numerous postgraduate students. His work is prominently featured in numerous international scientific journals. Additionally, he plays a crucial role as a technical advisor for climate change and air pollution matters to Thailand's House of Representatives, the Ministry of Natural Resources and Environment, and international organizations including UNEP and the World Bank.

Position:

Dean and Associate Professor
Department of Sanitary Engineering
E-mail: sarawut.the@mahidol.ac.th

Education:

- Ph.D. (Atmospheric Science), Monash University , Australia
- M.Sc. (Environmental Science), Chulalongkorn University, Thailand
- B.Sc. (Environmental Science), Thammasat University, Thailand

Expertise:

Climate change and air pollution management Emission Inventory and atmospheric pollution modeling
Air quality monitoring and management
Air pollution control Greenhouse gas management

Current Positions:

- Dean of the Faculty of Public Health, Mahidol University
- Advisory committee on environment to the Thailand House of Representatives
- Expert committee on air pollution to the Thai Ministry of Natural Resources and Environment
- Regional Director Asia Pacific Academic Consortium for Public Health (APACPH)
- Ad hoc Group of Expert to the Minamata Convention on mercury under the United Nations Environment Program (UNEP)
- Scientific Advisory Committee to the Acid Deposition Monitoring Network in East Asia (EANET)

Research achievement:

- Publication in international journal as first/corresponding author: 61
- Citation: 653
- H-Index: 15

RESEARCH INTERESTS AND FIELD OF SPECIALIZATION:

- Air quality monitoring and management
- Air pollution control
- Greenhouse gas management
- Emission Inventory and Air Pollution Modeling
- Acid deposition
- Transboundary air pollution
- Volatile organic compounds (VOCs)

WORK EXPERIENCES:

- Technical advisor of the Thailand's House of Representatives for the Committee on Land, Natural Resources and Environment
- Ad hoc Group of Expert to the Minamata Convention on mercury under the United Nations Environment Program (UNEP)
- Scientific advisory committee of the Acid Deposition Monitoring Network in East Asia
- Advisory Panel of the Clean Air for Sustainable ASEAN (CASA) project
- Scientific committee of the National Economic and Social Advisory Council of Thailand (Committee on the greenhouse gas management)
- National Expert committee in the environmental impact assessment (EIA) for petroleum and petrochemical industrial project of the National Environment Board
- Expert committee of the C-labeling system of Thailand
- Expert committee on the development of the Pollutant Release and Transfer Registration (PRTR) in Thailand
- President of the Association of the Dean of Faculty of Public Health of Thailand
- President of the Environmental Academic Institute Association of Thailand

RESEARCH EXPERIENCES:

- Project on the assessment of air toxic dispersion and integrated management of municipal waste management in the eastern economic corridor of Thailand
- Project on the integrated management of secondary particulate in PM 2.5: characteristic, formation, source contribution and appropriate mitigation measures analysis (Head of the project)
- Project on the comprehensive evaluation of PM-10 and ozone characteristics and their potential impact in the vicinity of the Mae Moh coal-fired power plant (Head of the project)
- Project on the application of the ambient PM2.5 treatment technology: feasibility and appropriateness analysis (Head of the project)
- Project on the source apportionment of ambient VOCs in the vicinity of the Maptaphut industrialcomplex (Head of the project)
- Project on the evaluation of AERMOD and CALPUFF dispersion model in predicting ambient air pollution in Maptaphut industrial complex (Head of the project)
- Project on the analysis of the fuel improving policy towards the reduction of emissions and ambient concentration of benzene in Bangkok's air (Head of the project)

RESEARCH EXPERIENCES:

- Project on the application of AERMOD dispersion model for the evaluation of assimilative capacity of air pollution in Mataphut industrial complex (Head of the project)
- Project on the evaluation of contribution of emission sources to the ambient PM-10 concentration in the Na Phra Lan Pollution Control Zone (Head of the project)
- Project on the management of evaporation of tank farm and air dispersion of volatile organic compounds from petroleum refinery complex (Head of the project)
- Project on the study of emission and dispersion of air toxics from open burning of maize residue
- Project on the co-benefit analysis of greenhouse gas and air pollution management in tapioca industry (Head of the project)
- Project on the study of evaluating the performance of air pollution model (AERMOD & CALPUFF) in the management of air pollution of Thaioil Refinery Complex (Head of the project)
- Project on the study of potential emission source of volatile organic compounds (VOCs) in the vicinity of IRPC Industrial Complex (Head of the project)
- Project on the development of emission factor and emission inventory of air pollutants from non- point source activities in Rayong province, Thailand (Head of the project)
- Project on the development of emission factor for air pollutants and greenhouse gases from vehicle for establishing of appropriate mitigation policy and measures in the transportation sector in Thailand (Head of the project)
- Project on the development of air pollution management and backward air pollution trajectory analysis system for Thaioil Industrial Complex (Head of the project)
- Project on the development of emission calculation from refinery and petrochemical industry for the implementation of the Pollutant Release and Transfer Registration (PRTR) system in Thailand
- Project on the development of Thailand's assimilative capacity-based air emission map (Head of the project)
- Project on the development of environmental database in the vicinity of RIL industrial estate, Rayong province, Thailand (Head of the project)
- Project on the evaluation of impact of air pollution emission source on the population exposure to volatile organic compounds in Maptaput district and Samaesarn district, Thailand (Head of the project)
- Project on the reduction of volatile organic compounds emission in the outer area of industrial complex in Thailand
- Project on the establishing of industrial pollution warning system in Thailand

PUBLICATIONS:

- Vanitchaya Kultan, Sarawut Thepanondh, Jutarat Keawboonchu, Nattaporn Pinthong, Wissawa Malakan, 2025, Emission characterization and health risk assessment of volatile organic compounds from automotive painting in Thailand, Kesmas: Jurnal Kesehatan Masyarakat Nasional (National Public Health Journal), Vol.20 (4): 314-324, DOI: 10.7454/kesmas.v20i4.2390.
- Kanisorn Jindamanee, Jutarat Keawboonchu, Nattaporn Pinthong, Aronrag Meeyai, Puchong Inchai & Sarawut Thepanondh, 2025, Environmental impacts and emission profiles of volatile organic compounds from petroleum refineries, Scientific Reports, https://doi.org/10.1038/s41598-025-99932-7
- Kanisorn Jindamanee, Sarawut Thepanondh, Jutarat Kaewboonchu, Nattaporn Pinthong and Aronraq Meeyai, 2024, Manifesting for hidden pollutants: Quantifying emissions and environmental impact of petroleum refinery on PM2.5, Atmospheric Environment X, https://doi.org/10.1016/j/aeaoa.2024.100300
- Jutarat Keawboonchu, Sarawut Thepanondh, Vanitchaya Kultan, Nattaporn Pinthong, Wissawa Malakan, Shinya Echigo and Suchon Chatphanchan, 2024, Unmasking the aromatic production industry's VOCs: unraveling environmental and health impacts, Atmospheric Environment X, https://doi.org/10.1016/j.aeaoa.2024.100238
- Wissawa Malakan, Sarawut Thepanondh, Jutarat Keawboonchu, Vanitchaya Kultan, Akira Kondo, Hikari Shimadera, 2024, Integrated assessment of inhalation health risk and economic benefit of improving ambient targeted VOCs in Petrochemical industrial area, Air Quality, Atmosphere and Health, https://doi.org/10.1007/s11869-024-01552-z
- Khajornsak Nakkasem, Sarawut Thepanondh, Nuttipon Yabueng, Somporn Chantara, Kanisorn Jindamanee, Jutarat Keawboonchu, Vanitchaya Kultan, Wissawa Malakan, and Peemapat Jookjantra, 2024, Organic and elemental carbon characteristics in PM2. across diverse landscapes, Songklanakarin Journal of Science and Technology, Vol 46 (2), 110–117.
- Pumipat Pukkawanna, Chaiyanun Tangtong, Sarawut Thepanondh, Vorakamol Boonyayothin, 2023, Simulation of the threat zone of benzene released from the safety relief valve in the petrochemical plant in accordance with occupational health, safety, and environmental standards, Process Safety Progress, 1-8. https://doi:10.1002/prs.12514
- Jutarat Keawboonchu, Sarawut Thepanondh, Vanitchaya Kultan, Nattaporn Pinthong, Wissawa Malakan and Mark Gregory Robson, 2023, Integrated sustainable management of petrochemical industrial air pollution, International Journal of Environmental Research and Public Health, Vol.20, 2280. https://doi.org/10.3390/ijerph20032280
- Wissawa Malakan, Sarawut Thepanondh and Akira Kondo, 2022, Modeling of inhalation health risk of volatile organic compounds in the vicinity of Maptaphut petroleum and petrochemical industrial estate, Thailand, Sustainability, 14, 12073. https://doi.org/10.3390/su141912073
- Vanitchaya Kultan, Sarawut Thepanond h, Nattaporn Pinthong, Jutarat Keawboonchu and Mark Robson, 2022, Comprehensive evaluation of odor-causing VOCs from the painting process of the automobile manufacturing industry and its sustainable management, Atmosphere, 13, 1515. https://doi.org/10.3390/atmos13091515
- Peemapat Jookjantra, Sarawut Thepanondh, Jutarat Keawboonchu, Vanitchaya Kultan, Wanna Laowagul, 2022, Formation potential and source contribution of secondary organic aerosol from volatile organic compounds, Journal of Environmental Quality, 1-19, DOI: 10.1002/jeq2.20381
- Nattaporn Pinthong, Sarawut Thepanondh and Akira Kondo, 2022, Source identification of VOCs and their environmental health risk in a petrochemical industrial area, Aerosol and Air Quality Research, Vol.22(2), 1-18, https://doi.org/10.4209/aaqr.210064

PUBLICATIONS:

- Nattaporn Pinthong, Sarawut Thepanondh, Vanitchaya Kultan and Jutarat Keawboonchu, 2022, Characteristics and impact of VOCs on ozone formation potential in a petrochemical industrial area, Thailand, Atmosphere, Vol.13(732), https://doi.org/10.3390/atmos13050732
- Lalidaporn Punya, Sarawut Thepanondh, Suphaphat Kwonpongsagoon, Wanna Laowagul, Nuttakit Sukjit, and Pattaranan Hanma, 2022, Songklanakarin J. Sci. Technol., Vol.44 (1), 191-200.
- Thae Thae Han Htwe, Sarawut Thepanondh, Suphaphat Kwonpongsagoon, Chutarat Chompunth and Kanisorn Jindamanee, 2021, Social restriction effects on air pollution: How the PM2.5 concentration changed with lockdown management of COVID-19 pandemic control in Bangkok Thailand, EnvironmentAsia, Vol.14(3), 80-90.
- Nuttakit Sukjit, Sarawut Thepanondh, Suphaphat Kwonpongsagoon, Wanida Jinsart, Lalidaporn Punya, Pattaranan Hanma, 2021, Source contribution of 1,3 butadiene in the vicinity of petrochemical industrial area, Applied Environmental Research, Vol. 43(4), 29-38.
- Suwadi Saikomol, Sarawut Thepanondh, Wanna Laowagul, Wissawa Malakan, Jutarat Keawboonchu and Vanitchaya Kultan, 2021, Characteristics and dispersion modeling of VOCs emission released from the tank farm of petroleum refinery complex, EnvironmentAsia, Vol.14(1), 1-12.
- Pattaranan Hanma, Sarawut Thepanondh, Chutarat Chompunth, Suphaphat Kwonpongsagoon, Lalidaporn Panya and Nuttakit Sukjit, 2021, Extent and magnitude of industrial stack emissions on ambient particulate concentrations, International Journal of GEOMATE, Vol.21(84), 202-209.
- S. Thepanondh & V. Tunlathorntham, 2020, Appropriate scenarios for mercury emission control from coal-fired power plant in Thailand: emissions and ambient concentrations analysis, Heliyon, Vol. 6, e04197. https://doi.org/10.1016/j.heliyon.2020.e04197
- Kanisorn Jindamanee, Sarawut Thepanondh, Natchanon Aggapongpisit and Sirapong Suktawee, 2020, Source apportionment analysis of volatile organic compounds using positive matrix factorization coupled with conditional bivariate probability function in the industrial areas, EnvironmentAsia, Vol.13(2), 31-49.
- Giang Tran Huong Nguyen, Hikari Shimadera, Katsushige Uranishi, Tomohito Matsuo, Akira Kondo and Sarawut Thepanondh,2019, Numerical assessment of PM2.5 and O3 air quality in continental Southeast Asia: Baseline simulation and aerosol direct effects investigation, Atmospheric Environment, Vol.219, 117054. http://doi.org/10.1016/j.atmosenv.2019.117054.
- Suwadi Saikomo, Sarawut Thepanondh and Wanna Laowagul, 2019, Emission losses and dispersion of volatile organic compounds from tank farm of petroleum refinery complex, Journal of Environmental Health Science and Engineering, Vol.17, 561-570.
- Thanasorn Wimolrattanasil, Sarawut Thepanondh, Melanie L Sattler, Wanna Laowagul, Plernpis Pongprayoon, Aduldech Patpai and Suteera Boonyapitak, 2019. Change of Odor Distribution due to Improvement of Wastewater Treatment Plants in a Tapioca Starch Industry, EnvironmentAsia, Vol. 12(3), 43-53.
- Keawboonchu, J., Malakan, W., Thongkum, W., & Thepanondh, S., 2019, Effect of the waste heat recovery system to buoyancy and momentum flux of combustion stack in the cement industry. Environment and Natural Resources Journal, Vol. 17(1), 11-21.
- Thanasorn Wimolrattanasil, Sarawut Thepanondh, Melanie L. Sattler, Wanna Laowagul, 2018, Quantitative evaluation of cleaner production and environmental policy toward the co-benefit of greenhouse gas and odor reduction: case study of Tapioca starch industry, Clean Technologies and Environmental Policy, Vol. 20, 2333-2343.

PUBLICATIONS:

- Duanpen Sirithian, Sarawut Thepanondh, Melanie L. Sattler and Wanna Laowagul, 2018, Emissions of volatile organic compounds from maize residue open burning in the northern region of Thailand, Atmospheric Environment, Vol. 176, 179-187.
- Pantitcha Outapa, Sarawut Thepanondh, Akira Kondo and Natchanok Pala-En , 2018, Development of air pollutant emission factors under real-world truck driving cycle, International Journal of Sustainable Transportation, Vol. 12(6), 432-440.
- Wisawa Malakan, Jutarat Keawboonchu and Sarawut Thepanondh, 2018, Comparison of AERMOD performance using observed and prognostic meteorological data, EnvironmentAsia, Vol. 11(2), 38-52.
- Thanasorn Wimolrattanasil, Sarawut Thepanondh, Melanie L. Sattler, Wanna Laowagul, 2018, Health risk assessment of volatile organic compounds emitted from wastewater treatment plants in tapioca industry, ASM Science Journal, Vol. 11(2), 140-148.
- Duanpen Sirithian, Sarawut Thepanondh, Melanie L. Sattler and Wanna Laowagul, 2018, Modeling of volatile organic compounds dispersion from open crop residue burning, ASM Science Journal, Vol. 11(2), 181-188.
- Duanpen Sirithian, Sarawut Thepanondh, Wanna Laowagul and Daisy Morknoy, 2017, Atmospheric dispersion of polycyclic aromatic hydrocarbons from open burning of agricultural residues in Chiang Rai, Thailand, Air Quality, Atmosphere and Health, Vol.10, 861-871.
- Pantitcha Outapa, Jaeraya Ruangkawsakun, Waewta Khantee and Sarawut Thepanondh, 2017, Dynamic air toxic emission factor of motorcycles in Bangkok, Thailand, Environmental Engineering and Management Journal, Vol.16, No. 12, 2823-2830.
- Supitchaya Tunlathorntham and Sarawut Thepanondh, 2017, Prediction of ambient nitrogen dioxide concentrations in the vicinity of industrial complex area, Thailand, Air, Soil and Water Research, Vol.10, 1-11.
- Tipawan Phetrawech and Sarawut Thepanondh, 2017, Evaluation of resuspension of road dust in a cement industrial complex area, International Journal of GEOMATE, Vol. 12(33), 96-103.
- Anna Kiewchaum, Sarawut Thepanondh, Duanpen Sirithian, Kamolthip Mahavong and Pantitcha Outapa, 2017, Evaluation of the effectiveness and appropriateness of Bangkok action plans on global warming mitigations, International Journal of GEOMATE, Vol. 12(33), 14-21.
- Duanpen Sirithian and Sarawut Thepanondh, 2016, Influence of grid resolution in modeling of air pollution from open burning, Atmosphere, Vol.7(93), 1-14.
- Lasita Jinawa and Sarawut Thepanondh, 2016, Success of fuel quality improving policy in reducing benzene air concentrations in Bangkok, International Journal of GEOMATE, Vol. 11(24), 2341-2347.
- Nattawut Jittra, Nattaporn Pinthong and Sarawut Thepanondh, 2016, Performance evaluation of AERMOD and CALPUFF air dispersion models in industrial complex area, Air Soil and Water Research, Vol. 8, 87-95.
- Pantitcha Outapa, Akira Kondo, Sarawut Thepanondh, 2016, Effect of speed on emissions of air pollutants in urban environment: case study of truck emissions, International Journal of GEOMATE, Vol. 11(23), 2200-2207.
- Apiwat Thawonkaew, Sarawut Thepanondh, Duanpen Sirithian and Lasita Jinawa, 2016, Assimilative capacity of air pollutants in an area of the largest petrochemical complex in Thailand, International Journal of GEOMATE, Vol. 11(23), 2162-2169.

PUBLICATIONS:

- Sarawut Thepanondh, Pantitcha Outapa and Suwadi Saikomol, 2016, Evaluation of dispersion model performance in predicting SO2 concentrations from petroleum refinery complex, International Journal of GEOMATE, Vol. 11(23), 2129-2135.
- Laddawan Khamyingkert and Sarawut Thepanondh, 2016, Analysis of Industrial Source Contribution to Ambient Air Concentration Using AERMOD Dispersion Model, EnvironmentAsia, Vol. 9(1), 28-36.
- Nattawut Jittra, Nattaporn Pinthong and Sarawut Thepanondh, 2015, Performance Evaluation of AERMOD and CALPUFF Air Dispersion Models in Industrial Complex Area, Air Soil and Water Research, Vol. 8, 87-95.
- Neungrothai Saeaw and Sarawut Thepanondh, 2015, Source Apportionment Analysis of Airborne VOCs using Positive Matrix Factorization in Industrial and Urban Areas in Thailand, Atmospheric Pollution Research, Vol. 6, 644-650.
- S. Tunlathornthan and S. Thepanondh, 2015, A Study of AERMOD Tiering Approach for Prediction of Nitrogen Dioxide in Maptaphut Industrial Area, Thailand, in Environmental Science and Information Applications Technology, Taylor and Francis Group, London, ISBN: 978-1-138-02814-2.
- N. Jittra and S. Thepanondh, 2015, Performance Evaluation of AERMOD Air Dispersion Model in Maptaphut Industrial Area, Thailand, , in Environmental Science and Information Applications Technology, Taylor and Francis Group, London, ISBN: 978-1-138-02814-2.
- Laddawan Khamyingkert and Sarawut Thepanondh, Source Contribution Analysis of Ambient NO2 Concentration in Mapataphut Industrial Complex Area, Thailand, Proceedings of the International Conference on Environmental Research and Technology, May 2015, Penang, Malaysia.
- P.Outapa and S. Thepanondh, 2014, Development of Air Toxic Emission Factor and Inventory of On-road Mobile Sources, Air, Soil and Water Research, Vol.7, 1-10.
- Jutamas Khaosang and Sarawut Thepanondh, 2014, Emission of Oxide of Nitrogen from Household Activity in Rayong Province, Thailand, Advanced Material Research, Vol.931-932, 655-659.
- Thanasorn Wimolrattanasil and Sarawut Thepanondh, 2014, Emission factor of VOCs from non-point source: case study of chemical laboratory, Advanced Material Research, Vol.931-932, 660-664.
- Wisit Thongkum and Sarawut Thepanondh, 2014, Impact of fuel switching to the level of air toxic and its potential health impact in Bangkok, THAILAND, Advanced Material Research, Vol.931-932, 671-675.
- Sarawut Thepanondh and Thansinee Lertchaianon, Prioritization and Complexity Evaluation of Airborne Volatile Organic Compounds Characteristics. Journal of Asian Scientific Research, Vol.3, No.11, 1109-1127.
- Sarawut Thepanondh and Nittaya Jitbantoung, Assimilative Capacity Analysis of air Pollutants over the Dawai Industrial Complex, International Journal of Environmental Science and Development, Vol.5, No.2, 161-164.
- Jaeraya Ruangkawsakun and Sarawut Thepanondh, Air Assimilative Capacity for Sulfur Dioxide and Nitrogen Dioxide: Case Study the Eastern Region of Thailand, International Journal of Environmental Science and Development, Vol.5, No.2, 187-190.
- Waewta Khantee and Sarawut Thepanondh, Source Apportionment Analysis of Airborne Volatile Organic Compounds in Maptaphut, Thailand, International Journal of Environmental Science and Development, Vol.5, No.2, 191-196.

PUBLICATIONS:

- Waewta Khantee and Sarawut Thepanondh, Source Apportionment Analysis of Airborne Volatile Organic Compounds in Maptaphut, Thailand, International Journal of Environmental Science and Development, Vol.5, No.2, 191-196.
- Sarawut Thepanondh, Jaeraya Ruangkawsakun, Jutamas Khaosang, Nantida Vodmongkol, Thanasorn Wimolrattanasil ,Waewta Khantee and Wisit Thongkum, Prediction of Traffic Induced Air Pollutant Concentrations at the Top Ten Intersection Having Highest Traffic Volume in Bangkok, Proceedings of the 2nd International Conference on Environmental Science & Engineering and Management March 27-29, 2013, Thailand
- Nantida Vodmongkol and Sarawut Thepanondh, Development of Ventilation Coefficient for Evaluation of the Potential for Air Pollution Dispersion, Proceedings of the 2nd International Conference on Environmental Science & Engineering and Management March 27-29, 2013, Thailand
- Thansinee Lertchaianon and Sarawut Thepanondh, Prioritization Evaluation of Airborne Volatile Organic Compounds Characteristics in Bangkok, Thailand, Proceedings of the 2nd International Conference on Environmental Science & Engineering and Management March 27-29, 2013, Thailand
- Chusai C., Manomaiphiboon K., Saiyasitpanich P. and Thepanondh S., 2012, NO2 and SO2 Dispersion Modeling and Relative Roles of Emission Sources over Map Ta Phut Industrial Area, Thailand, Journal of the Air & Waste Management Association, Vol. 62(8), 932-945.
- Thongkum W. and Thepanondh S., Estimating of benzene concentration using available conventional air pollution monitoring data, Proceedings of the Asian Conference on Sustainability, Energy and the Environment 2012, 3-6 May 2012, Osaka, Japan.
- Chusai C., Manomaiphiboon K., Saiyasitpanich P., Leungsakul S., Thepanondh S., and Exell R.H.B., Cost of NOx emission reduction in Map Ta Phut Industrial Area, Rayong province, Thailand,Proceedings of the 4th International Conference on Sustainable Energy and Environment, 27-29 February 2012, Thailand.
- Thepanondh S., and Toruksa W., 2011, “Proximity analysis of air pollution exposure and its potential risk” Journal of Environmental Monitoring, Vol. 13(5) 1264-1270.
- Thepanondh S., Jarupan V., Sarutichat P., and Makkasap T., 2011, “Airborne volatile organic compounds and their potential health impact on the vicinity of petrochemical industrial complex” Water, Air and Soil Pollution, Vol 214, 83-92.
- Jinsart W., Sripraparkorn C., Siems S.T., Hurley P.J., and Thepanondh S., 2010, “Application of The Air Pollution Model (TAPM) to the urban airshed of Bangkok, Thailand” International Journal of Environment and Pollution, Vol.42, Nos.1/2/3.
- Khuntong S., Wongsorntam K., Thepanondh S., and Khaenamkaew O.,2010, “Effect of particulate matters from shipping activities around Si Racha Bay-Si Chang Island” Environment Asia, Vol. 3(2), 59-68.
- Thepanondh S., Jarupan V., and Makkasap T., “Evaluation of Volatile Organic Compounds Characteristics and Its Health Impact in the Vicinity of Petrochemical Industrial Complex” Proceedings of 2009 International Symposium on Environmental Science and Technology, 2-5 June 2009, Shianghai, China
- Sarutichart P., Thepanondh S., and Makkasap T., “Spatial Assessment of Air Pollution Exposure and Its Potential Health Impact” Proceedings of 2009 International Symposium on Environmental Science and Technology, 2-5 June 2009, Shianghai, China
- Manomaiphiboon k., Pengchai P., Surapipith V., Thepanondh S., Onchang R., Wiwatwattana N., Tanpipat v, and Garivait S., “Smoke-Haze Forecast Modeling for Upper North Thailand during March-April 2008” Proceedings of the 3rd international conference on sustainable energy and environment, 18-23 May 2009, Bangkok, Thailand

PUBLICATIONS:

- Thepanondh, S. “Ambient VOCs Status Report” Proceedings of the 2nd Seminar on the Project on Development of Environmental and Emission Standards of VOCs”, 26 October 2007, Bangkok, Thailand
- Thepanondh, S., Nakamura, S., Fukuda M., “Establishing of Emission
- Inventory and Prioritizing of Standard for VOCs in Thailand” Proceedings of the 10th International Conference on Atmospheric Sciences and Applications to Air Quality, 14-16 May 2007, Hong Kong, China
- Thepanondh, S., “Analysis of Chemical Composition and Wet Deposition in Thailand”, Proceedings of Atmospheric Chemistry at the Interfaces 2006 Conference, 17-23 September 2006, Cape Town, South Africa.
- Thepanondh S., Ayers G., Hooper M., 2005, “Analysis of Precipitation Chemistry in Northern Thailand”, Clean Air and Environmental Quality Vol.39 no.4, 43-47.
- Thepanondh S., “Evaluation of Chemical Composition and Wet Deposition of Rainwater in Thailand”, Proceedings of the 11th International Joint Seminar on the Regional Deposition Processes in the Atmosphere, 23-26 November 2005, Seoul, Korea
- Thepanondh S., “Prediction of Carbon Monoxide Levels from Bangkok New Mass Transit System”, Proceedings of the 16th Regional Conference of Clean Air and Environment in Asian Pacific Area, 2-4 August 2005, Tokyo, Japan
- Thepanondh S., Hooper M., Ayers G., “Chemical Characteristics and Potential Contaminated Sources of Rainwater in Northern Thailand”, Proceedings of the 16th Regional Conference of Clean Air and Environment in Asian Pacific Area, 2-4 August 2005, Tokyo, Japan
- Thepanondh S., Hooper M., and Ayers G., “Application of TAPM for a simulation of sulphur dioxide concentration in Mae Moh valley, Thailand”, Proceedings of the 17th International Clean Air and Environment Conference, 3-6 May 2005, Hobart, Australia
- Thepanondh S., Hurley P., Hooper M., and Ayers G., “Verification of the TAPM Performance for Sulphur Dioxide Dispersion in Mae Moh Valley, Thailand”, Proceedings of the 9th International Joint Seminar on the Regional Deposition Processes in the Atmosphere, 1-3 December 2003, Bangkok, Thailand.
- Thepanondh S., Hooper M., and Ayers G., “Sulphur Dioxide Dry deposition Flux in Northern Thailand”, The 11thInternational Conference on Modelling, Monitoring and Management of Air Pollution, in Air Pollution, Volume XI, F. Patania and C.A.Brebbia (Editors), WIT Press (Southampton, UK), pp 255-262, 2003.
- Jinsart W., Tamura K., Loetkamonwit S., Thepanondh S., Karita K., and Yano E., 2002, “Roadside Particulate Air Pollution in Bangkok”, Journal of Air and Waste Management Association Vol.52, 174-185.
- Thepanondh S., Toruksa W., Ayers G., and Hooper M., “Chemical Composition of Atmospheric Precipitation and Wet Deposition in Thailand”, Proceedings of the IGBP-IGAC Composition of Asian Deposition (CAD) Workshop, 21-23 November 2002, Petaling Jaya, Malaysia.
- Thepanondh S., Hooper M. and Ayers G., “Dry Deposition of Atmospheric Sulphur Species in Northern Thailand: A Report on Method and Early Results”, Proceedings of the 16th International Clean Air and Environment Conference, 19-22 August 2002, Christchurch, New Zealand.

PUBLICATIONS:

- Thepanondh S., Phantong S., and Hooper M., "A Comparative Study of Total Deposition and Chemical Composition of Rainwater from Three Sites in Thailand", Proceedings of the 16th International Clean Air and Environment Conference, 19-22 August 2002, Christchurch, New Zealand.
- Thepanondh S., Wangwongwattana S., and Jinsart W., "Sulfate Aerosol and Its Acidity near Mae Moh Power Plant, Lampang Province", Proceedings of the 3rd Asian Symposium on Academic Activity for Waste Management (AAWM), August 27-29, 1996, Bangkok, Thailand.