

## CURRICULUM VITAE



**MOHD TALIB LATIF** is a professor of Atmospheric Chemistry and Air Pollution at the Department of Earth Sciences and Environment, Faculty of Science and Technology, Universiti Kebangsaan Malaysia (UKM); and a fellow of the Malaysian Academy of Science (FASc). He completed his BSc in Chemistry and MSc in Environmental Science at Universiti Kebangsaan Malaysia and his PhD at the School of Environmental Science, University of East Anglia, United Kingdom. Currently, he is Chairman of the Department of Earth Sciences and Environment, Faculty of Science and Technology Universiti Kebangsaan Malaysia. His main research work included the composition of atmospheric aerosols, atmospheric gases such as surface ozone and volatile organic compounds (VOCs). His research group has been working closely with government agencies in Malaysia such as the Malaysian Department of Environment (DOE) and the Malaysian Meteorological Department (Met Malaysia) in the area of atmospheric compositions and climate change. At the international level, he is actively involved with the research community within the Asian continent through International Global on Atmospheric Chemistry- Monsoon Asia (IGAC-MANGO) project. Since 2018 he has been appointed to one of the scientific steering committees for the Surface Ocean Lower Atmosphere Study (SOLAS). He participated in the **3rd IPCC Expert Meeting on short lived climate forces (SLCFs) in 2022**. Mohd Talib has received the Top Research Scientist Malaysian (TRSM) Award from the Academy of Science Malaysia for his research and publication in 2018.

SCOPUS Link: <https://www.scopus.com/authid/detail.uri?authorId=57218373467>

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### PRIZES / AWARDS RECEIVED/RECOGNITION

- Stanford University World's Top 2% Scientists, 2021
- UKM Bitara Award 2019
- Malaysia Commercialisation Year (MCY), New Inventor Award 2019
- Academy of Science Malaysia Top Research Scientist Malaysia Award 2018
- Best Poster Award, JSPS-ACP Conference 2016, Kyoto University, Japan
- Universiti Kebangsaan Malaysia Merit Award, 2009, 2013, 2019
- *Gold Medal* in International Engineering Invention & Innovation Exhibition (i-ENVEX) and Malaysian International Young Inventors Olympiad (MIYIO) 2012 (Supervisor)

## ADMINISTRATIVE AND MENAGEMENT

1. Chairman, Department of Earth Sciences and Environment, Faculty of Science and Technology, University Kebangsaan Malaysia (10th of March 2023 – Present)
2. Chairman, Sustainable Resources, Environment and Smart Living, Environment and Smart Living, Centre of IDEA, UKM (1<sup>st</sup> of May 2020-9<sup>th</sup> March, 2023)
3. Deputy Dean (Postgraduate) (1<sup>st</sup> Jan 2018-30<sup>th</sup> April, 2020), Faculty of Science and Technology, Universiti Kebangsaan Malaysia
4. Deputy Director, Institute for Environment and Development (LESTARI) (1<sup>st</sup> May 2015-31<sup>st</sup> Dec 2018)
5. Head, Centre of Tropical Climate Change System (IKLIM) (12 Dec 2013-July 2014), Institute for Climate Change, Universiti Kebangsaan Malaysia
6. Head, Centre of Tropical Climate Change System (IKLIM) (16 July -12 Dec 2013), Faculty of Science and Technology, Universiti Kebangsaan Malaysia
7. Head of Environmental Science Program (15<sup>th</sup> Jan 2010-14<sup>th</sup> Jan 2013), School of Environmental and Natural Resource Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia
8. Coordinator for Research and Publication (1<sup>st</sup> Mar 2009-14<sup>th</sup> Jan 2010)  
Research and Publication, Centre for Student Advancement, Universiti Kebangsaan Malaysia

## SELECTED LATEST PUBLICATION (2020-2023)

- 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. & Li, L. 2023. Underestimation of Biomass Burning Contribution to Pm2.5 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(162071).
- Promsiri, P., Tekasakul, S., Thongyen, T., Suwattiga, P., Morris, J., Latif, M. T., Tekasakul, P. & Dejchanchaiwong, R. 2023. Transboundary Haze from Peatland Fires and Local Source-Derived Pm2.5 in Southern Thailand. *Atmospheric Environment* 294(119512).
- Uning, R., Suratman, S., Latif, M.T., Mustaffa, N.I.H., 2022. Assessment on the distributions and exchange of anionic surfactants in the coastal environment of Peninsular Malaysia: A review. *Environmental Science and Pollution Research* 29, 15380-15390.
- Dahari, N., Muda, K., Khan, M.F., Latif, M.T., Hussein, N., Dominick, D., 2022. Chemical Characterization and Source Apportionment of PM2.5 near Semi-Urban Residential-Industrial Areas. *Exposure and Health* 14, 149-170.
- Jamhari, A.A., Latif, M.T., Wahab, M.I.A., Hassan, H., Othman, M., Abd Hamid, H.H., Tekasakul, P., Phairuang, W., Hata, M., Furuchi, M., Rajab, N.F., 2022. Seasonal variation and size distribution of inorganic and carbonaceous components, source identification of size-fractioned urban air particles in Kuala Lumpur, Malaysia. *Chemosphere* 287, 132309.
- Hisamuddin, N.H., Jalaludin, J., Bakar, S.A., Latif, M.T., 2022. The Influence of Environmental Polycyclic Aromatic Hydrocarbons (PAHs) Exposure on DNA Damage among School Children in Urban Traffic Area, Malaysia. *International Journal of Environmental Research and Public Health* 19, 2193.
- Lung, S.C.C., Hien, T.T., Cambaliza, M.O.L., Hlaing, O.M.T., Oanh, N.T.K., Latif, M.T., Lestari, P., Salam, A., Lee, S.Y., Wang, W.C.V., Tsou, M.C.M., Cong-Thanh, T., Cruz, M.T., Tantrakarnapa, K., Othman, M., Roy, S., Dang, T.N., Agustian, D., 2022. Research Priorities of Applying Low-Cost PM2.5 Sensors in Southeast Asian Countries. *International Journal of Environmental Research and Public Health* 19, 1522.

- Marvin, M. R., Palmer, P. I., Latter, B. G., Siddans, R., Kerridge, B. J., Talib Latif, M., and Firoz Khan, M. (2021). Photochemical environment over Southeast Asia primed for hazardous ozone levels with influx of nitrogen oxides from seasonal biomass burning. *Atmospheric Chemistry and Physics* 21, 1917-1935.
- Azhari, A., Abdul Halim, N. D., Othman, M., Latif, M. T., Juneng, L., Sofwan, N. M., Stocker, J., and Johnson, K. (2021). Highly spatially resolved emission inventory of selected air pollutants in Kuala Lumpur's urban environment. *Atmospheric Pollution Research* 12, 12-22.
- Banerjee, T., Shitole, A. S., Mhawish, A., Anand, A., Ranjan, R., Khan, M. F., Srithawirat, T., Latif, M. T., and Mall, R. K. (2021). Aerosol Climatology Over South and Southeast Asia: Aerosol Types, Vertical Profile, and Source Fields. *Journal of Geophysical Research: Atmospheres* 126.
- Latif, M. T., Dominick, D., Hawari, N. S. S. L., Mohtar, A. A. A., and Othman, M. (2021). The concentration of major air pollutants during the movement control order due to the COVID-19 pandemic in the Klang Valley, Malaysia. *Sustainable Cities and Society* 66, 102660.
- Nor, N. S. M., Yip, C. W., Ibrahim, N., Jaafar, M. H., Rashid, Z. Z., Mustafa, N., Hamid, H. H. A., Chandru, K., Latif, M. T., Saw, P. E., Lin, C. Y., Alhasa, K. M., Hashim, J. H., and Nadzir, M. S. M. (2021). Particulate matter (PM<sub>2.5</sub>) as a potential SARS-CoV-2 carrier. *Scientific Reports* 11.
- Othman, M., and Latif, M. T. (2021). Air pollution impacts from COVID-19 pandemic control strategies in Malaysia. *Journal of Cleaner Production* 291.
- Othman, M., Latif, M. T., Jamhari, A. A., Abd Hamid, H. H., Uning, R., Khan, M. F., Mohd Nadzir, M. S., Sahani, M., Abdul Wahab, M. I., and Chan, K. M. (2021). Spatial distribution of fine and coarse particulate matter during a southwest monsoon in Peninsular Malaysia. *Chemosphere* 262.
- Prasasti, C. I., Haryanto, B., and Latif, M. T. (2021). Association of VOCs, PM<sub>2.5</sub> and household environmental exposure with children's respiratory allergies. *Air Quality, Atmosphere and Health*.
- Shith, S., Awang, N. R., Latif, M. T., and Ramli, N. A. (2021). Fluctuations in nighttime ground-level ozone concentrations during haze events in Malaysia. *Air Quality, Atmosphere and Health* 14, 19-26.
- Singh, N., Banerjee, T., Murari, V., Deboudt, K., Khan, M. F., Singh, R. S., and Latif, M. T. (2021). Insights into size-segregated particulate chemistry and sources in urban environment over central Indo-Gangetic Plain. *Chemosphere* 263.
- Sofwan, N. M., and Latif, M. T. (2021). Characteristics of the real-driving emissions from gasoline passenger vehicles in the Kuala Lumpur urban environment. *Atmospheric Pollution Research* 12, 306-315.
- Sopian, N. A., Jalaludin, J., Bakar, S. A., Hamedon, T. R., and Latif, M. T. (2021). Exposure to particulate pahs on potential genotoxicity and cancer risk among school children living near the petrochemical industry. *International Journal of Environmental Research and Public Health* 18, 1-21.
- Suradi, H., Khan, M. F., Alias, N. F., Mustapa Kama Shah, S., Yusoff, S., Fujii, Y., Othman, M., and Latif, M. T. (2021). Influence of Tropical Weather and Northeasterly Air Mass on Carbonaceous Aerosol in the Southern Malay Peninsula. *ACS Earth and Space Chemistry*. 5(3): 553–565.
- Bruni Zani, N., Lonati, G., Mead, M. I., Latif, M. T., and Crippa, P. (2020). Long-term satellite-based estimates of air quality and premature mortality in Equatorial Asia through deep neural networks. *Environmental Research Letters* 15.
- Dahari, N., Latif, M. T., Muda, K., and Hussein, N. (2020). Influence of meteorological variables on suburban atmospheric PM<sub>2.5</sub> in the southern region of peninsular Malaysia. *Aerosol and Air Quality Research* 20, 14-25.
- Fandi, N. F. M., Jalaludin, J., Latif, M. T., Hamid, H. H. A., and Awang, M. F. (2020). BTEX exposure assessment and inhalation health risks to traffic policemen in the Klang valley region, Malaysia. *Aerosol and Air Quality Research* 20, 1922-1937.

- Halim, N. D. A., Latif, M. T., Mohamed, A. F., Maulud, K. N. A., Idrus, S., Azhari, A., Othman, M., and Sofwan, N. M. (2020). Spatial assessment of land use impact on air quality in mega urban regions, Malaysia. *Sustainable Cities and Society* **63**.
- Hamid, H. H. A., Latif, M. T., Uning, R., Nadzir, M. S. M., Khan, M. F., Ta, G. C., and Kannan, N. (2020). Observations of BTEX in the ambient air of Kuala Lumpur by passive sampling. *Environmental Monitoring and Assessment* **192**.
- Hassan, H., Latif, M. T., Juneng, L., Amil, N., Khan, M. F., Yik, D. J., and Abdullah, N. A. (2020). Interaction of PM10 concentrations with local and synoptic meteorological conditions at different temporal scales. *Atmospheric Research* **241**.
- Jaafar, W. S. W. M., Said, N. F. S., Maulud, K. N. A., Uning, R., Latif, M. T., Kamarulzaman, A. M. M., Mohan, M., Pradhan, B., Saad, S. N. M., Broadbent, E. N., Cardil, A., Silva, C. A., and Takriff, M. S. (2020). Carbon emissions from oil palm induced forest and peatland conversion in sabah and Sarawak, Malaysia. *Forests* **11**, 1-22.
- Jud, M. A., Juneng, L., Tangang, F. T., Latif, M. T., Chung, J. X., and Ahamad, F. (2020). Madden Julian oscillation modulation for surface ozone in Peninsular Malaysia. *Atmospheric Environment* **233**.
- Kanniah, K. D., Kamarul Zaman, N. A. F., Kaskaoutis, D. G., and Latif, M. T. (2020a). COVID-19's impact on the atmospheric environment in the Southeast Asia region. *Science of the Total Environment* **736**.
- Khan, M. F., Hamid, A. H., Rahim, H. A., Maulud, K. N. A., Latif, M. T., Nadzir, M. S. M., Sahani, M., Qin, K., Kumar, P., Varkkey, H., Faruque, M. R. I., Guan, N. C., Ahmadi, S. P., and Yusoff, S. (2020). El Niño driven haze over the Southern Malaysian Peninsula and Borneo. *Science of the Total Environment* **730**.
- Kiely, L., Spracklen, D. V., Wiedinmyer, C., Conibear, L., Reddington, C. L., Arnold, S. R., Knote, C., Khan, M. F., Latif, M. T., Syaufina, L., and Adrianto, H. A. (2020). Air quality and health impacts of vegetation and peat fires in Equatorial Asia during 2004-2015. *Environmental Research Letters* **15**.