

CURRICULUM VITAE



Name : **DR. MD FIROZ KHAN**
Date and place of birth : 1ST November 1973 and Gaibandha
Nationality : Bangladesh
Marital status : Married
Correspondence address : House #4, Road #15, Sector #4, Uttara, Dhaka-1230, Bangladesh
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Current position : Associate Professor, Department of Environmental Science and Management, North South University
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QUALIFICATION

- PostDoc/Project researcher, *Aerosol Science*, The University of Tokyo (Japan), 2010-2011
- Ph.D., *Risk management and environmental sciences*, Yokohama National University (Japan), 2010
Dissertation: Comprehensive study of chemical compositions and source apportionment of airborne particulate matter (Adviser: Professor Emeritus Shigeki Masunaga)
- MSc, *Air pollution management and control*, The University of Birmingham (UK), 2004
- MSc, *Chemistry*, University of Dhaka (Bangladesh), 1995
- BSc, *Chemistry*, University of Dhaka (Bangladesh), 1994

ACADEMIC REPUTATION

H-Index (October 2022):

Google Scholar	30 (3877)
SCOPUS (ID: 57210963621)	27 (2757)
ISI Web of Science (Researcher ID: E-9560-2010)	24 (2434)

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FIELDS OF EXPERTISE

- Environmental Analytical Chemistry
- Atmospheric Chemistry
- Air Pollution/Causes and Effects of Air Pollution
- Legacy and Emerging Pollutants
- Environmental Toxicology
- Pollution Control
- Air Pollution Modeling
- Respiratory Absorption of the Xenobiotics

CAREER HISTORY

2022- : **Associate Professor**, Department of Environmental Science and Management, North South University
2019 –2022 : **Professor (Visiting)**, School of Environment and Geoinformatics, China University of Mining and Technology, China
2018 - 2022 : **Senior Lecturer**, Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia
2014 - 2018 : **University Lecturer**, Institute of Climate Change, Universiti Kebangsaan Malaysia
2013 - 2014 : **Postdoctoral Researcher**, Faculty of Science and Technology, Universiti Kebangsaan Malaysia
2010 - 2011 : **Project Researcher/PostDoc**, The University of Tokyo, Tokyo, Komaba Campus,

Japan
 2007 - 2010 : **PhD Candidate**, Yokohama National University, Yokohama, Japan
 2002 - 2003 : **Non-academic Research Job (Senior Scientific Officer (Chemical Processing))**, Bangladesh Jute Research Institute, Bangladesh)
 2001 - 2002 : **Non-academic Research Job (Senior Scientific Officer)**, Department of Environment, Dhaka, Bangladesh)
 2000 - 2001 : **Non-academic Research Job (Quality Analyst)**, ARC Surfactant, NSD Plant of Lever Brothers Limited, Bangladesh)
 1998 - 1999 : **Non-academic Research Job (Laboratory Supervisor)**, ICDDR, B, Dhaka, Bangladesh)

MAJOR RECOGNITIONS

- **Guest Editor** - Observation and Modeling of Air Pollution (a special issue to Sustainability, MDPI, Impact Factor: 3.889) 1/12/2022-current.
- **Associate Editor** - Frontiers in Environmental Engineering -Air Pollution Management, 2/12/2022-current.
- **Associate Editor** to Elementa: Science of the Anthropocene (Web of Science, University of California Press, Impact factor 6.053) 2016-2022
- **Associate Editor** to Arabian Journal of Geosciences (Web of Science, Springer, Impact factor 1.827) 2019-present
- **Professor (Visiting)** at China University of Mining and Technology, China for 2019-2022
- **PI for Fundamental Research Grant Award** from the Ministry of Higher Education, Malaysia (FRGS, 98,500 MYR (2019), 73200 MYR (2017))
- **PI for Impact-Oriented Interdisciplinary Research Grant award (IIRG 2019-2021)** from the University of Malaya (IIRG009-2019, 255,360 MYR)
- **PI for UM LIVING LAB GRANT AWARD (LL058-2021, 20,000.00 MYR)**
- Travel Award as an **Invited Speaker** to attend the **2019 ISPRS Workshop on Remote Sensing and Synergic Analysis on Atmospheric Environment**. 25-27 October 2019, Nanjing, China
- **Travel Fellowship award “IGAC-MANGO/NIES Travel Grant Recipient”** to attend **2018 joint 14th iCACGP Quadrennial Symposium/15th IGAC Science Conference in Takamatsu, Japan**
- An award of **"RISING STAR"** for the service in 2017 from Universiti Kebangsaan Malaysia, Feb 2018
- **Travel Fellowship award** to participate as an **invited speaker** on *"The Third Workshop on Atmospheric Composition and the Asian Monsoon (ACAM) hosted by IGAC/SPARC/NASA"* in Guangzhou, China, June 2017
- Japanese Government (**Monbukagakusho**) Scholarship from Ministry of Education, Culture, Science, Sports, Science and Technology (MEXT): Doctoral Program (2006-2010)
- **PI for Young Lecturers Incentive Grant (GGPM)**, 2016 (UKM) (**38000MYR**)
- **Chair, Technical Committee (Track-4)**. Mediterranean Geosciences Union, 1st Annual Meeting, 25-28 November 2021, Istanbul, Turkey.
- **Chair, Technical Committee (Track-4)**. Mediterranean Geosciences Union, 2nd Annual Meeting, 27-30 November 2022, Marrakech, Morocco.
- **Online Course Developer and Lead Lecturer “Chemometrics in Air Pollution”** at www.FutureLearn.com during the challenging period of pandemic

KNOWLEDGE DISSEMINATION

Criteria	Sub-criteria	Total Number
Publications	Number of Publications in indexed Journals as Corresponding Author	22
	Number of publications in indexed journals as Co-Author	90
	Number of Books	1
	Number of Chapters in Book/s (excluding proceedings and own authored books)	8
	Number of Articles in Professional/ Scientific Magazines	6
Scientific Presentations	<i>Number of presentations as invited Speaker/presenter/poster</i>	
	Invited Speaker/Keynote Speaker	18
	Conference presenter/poster	14
Human Resource Development	Number of graduated PhD students (research mode)	7
	Number of current PhD students (research mode)	1
	Number of graduated Master students (research mode)	7
	Number of current Master students (research mode)	5
	Number of undergraduate/visiting internship students	12

PUBLICATION LIST

Peer-reviewed journal papers

Corresponding authors

1. Mohammad Moniruzzaman, Md Aftab Ali Shaikh, Badhan Saha, Saif Shahrukh, Zarin Tasneem Jawa, and **Khan MF***. Seasonal changes and respiratory deposition flux of PM_{2.5} and PM₁₀ bound metals in Dhaka, Bangladesh. *Chemosphere*, Volume 309, Part 2, 136794, 2022. <https://doi.org/10.1016/j.chemosphere.2022.136794>. (Q1, IF: 8.943)
2. Nur H. Norazman, **Khan MF***, Sharanya Ramanathan, Syazwani Mustapa Kama Shah, Siti Jariani Mohd Jani, Khaled Shaifullah Joy, Kazi Naimul Islam, Farah Jeba, Abdus Salam, Otoha Yoshida, Hiroto Kawashima. Influence of Monsoonal Driving Factors on the Secondary Inorganic Aerosol over Ambient Air in Dhaka. *ACS Earth and Space Chemistry*. 5 (9), 2715-2733, 2021 <https://doi.org/10.1021/acsearthspacechem.1c00200> (*Web of Science, Q1, Impact Factor 3.475*)
3. Suradi H, **Khan, MF***, Alias, NF, Mustapa Kama Shah, S, Yusoff, S, Fujii, Y, Othman, M, Latif, MT, 2021. Influence of Tropical Weather and Northeasterly Air Mass on Carbonaceous Aerosol in the Southern Malay Peninsula. *ACS Earth and Space Chemistry* 5, 553-565. DOI: <https://dx.doi.org/10.1021/acsearthspacechem.0c00319> (*Web of Science, Q1, Impact Factor 3.475*)
4. Rahim HA, **Khan MF***, Zul F. Ibrahim, Asadullah Shoaib, Hamidah Suradi, Noraini Mohyeddin, Azizan A. Samah, Sumiani Yusoff. Coastal Meteorology on the Dispersion of Air Particles at the Bachok GAW Station. *Science of the Total Environment*, 782, 146783, 2021. <https://doi.org/10.1016/j.scitotenv.2021.146783> (*Web of Science, Q1, Impact Factor 7.96*)
5. Suradi, Hamidah; **Khan, MF***; Sairi, Nor A.; Rahim, Haasyimah A.; Yusoff, Sumiani; Fujii, Yusuke; Qin, Kai; Bari, Md. A.; Othman, Murnira; Latif, Mohd T. 2021. Ambient Levels, Emission Sources and Health Effect of PM_{2.5}-Bound Carbonaceous Particles and Polycyclic Aromatic Hydrocarbons in the City of Kuala Lumpur, Malaysia. *Atmosphere* 12 (5), 549. <https://doi.org/10.3390/atmos12050549> (*Web of Science, Q3, Impact Factor 2.686*)
6. Nor Fathiah Alias, **Khan MF***, Nor Asrina Sairi, Hamidah Suradi, Haasyimah Ab Rahim, Sharifuddin Md. Zain, Tirthankar Banerjee, Md. Aynul Bari, Murnira Othman, and Mohd Talib Latif. Characteristics, emission sources and risk factors of heavy metals in PM_{2.5} from Southern Malaysia. *ACS Earth and Space Chemistry* 4, 8, 1309-1323, 2020. DOI: <https://doi.org/10.1021/acsearthspacechem.0c00103> (*Web of Science, Q1, Impact Factor 3.475*)
7. **Khan MF***, Ahmad Hazuwan Hamid, Haasyimah Ab Rahim, Khairul Nizam Abdul Maulud, Mohd Talib Latif, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Kai Qin, Prashant Kumar, Helena Varkkey, Mohammad Rashed Iqbal Faruque, Ng Chee Guan, Seyedeh Parisa Ahmadi, Sumiani Yusoff. El Niño driven haze over the Southern Malaysian Peninsula and Borneo. *Science of the Total Environment*, 730, 139091, 2020. <https://doi.org/10.1016/j.scitotenv.2020.139091> (*Web of Science, Q1, Impact Factor 7.963*)
8. Wahab MIA, Razak WMAA, Sahani M, **Khan MF***. Characteristics and health effect of heavy metals on non-exhaust road dusts in Kuala Lumpur. *Science of The Total Environment*, 703, 135535, 2020. <https://doi.org/10.1016/j.scitotenv.2019.135535> (*Web of Science, Q1, Impact Factor 7.963*)
9. **Khan MF***, Hamid AH, Bari MA, Tajudin ABA, Latif MT, Nadzir MSM, Sahani M, Wahab MIA, Yusup Y, Maulud KNA, Yusoff MF, Amin N, Akhtaruzzaman M, Kindziarski W and Kumar P. Airborne particles in the city center of Kuala Lumpur - Origin, potential driving factors, and deposition flux in human respiratory airways. *Science of The Total Environment* 650, 1195-1206, 2019. doi: 10.1016/j.scitotenv.2018.09.072 (*Web of Science, Q1, Impact Factor 7.963*)
10. **Khan MF***, Khairul Maulud KNA, Latif MT, Chung, JX, Amil N, Alias A, Nadzir MSM, Sahani M, Mohammad M, Jahaya MF, Hassan H, Jeba F, Tahir NM, Abdullah SMS. Physicochemical factors and their potential sources inferred from long-term rainfall measurements at an urban and a remote rural site in tropical areas. *Science of the Total Environment* 612-613, 1401-1416, 2018. DOI: 10.1016/j.scitotenv.2017.08.025 (*Web of Science, Q1, Impact Factor 7.963*)
11. Samsuddin NAC, **Khan MF***, Maulud KNA, Hamid AH, Munna FT, Rahim MAA, Latif MT, Akhtaruzzaman M. Local and transboundary factors' impacts on trace gases and aerosol during haze episode in 2015 El Niño in Malaysia. *Science of The Total Environment* 630, 1502-1514, 2018. DOI: 10.1016/j.scitotenv.2018.02.289 (*Web of Science, Q1, Impact Factor 7.963*)
12. **Khan MF***, Hwa SW, Hou LC, Mustaffa NIH, Amil N, Mohamad N, Mazrura Sahani, Shoffian Amin Jaafar, Mohd Shahrul Mohd Nadzir, Mohd Talib Latif. Influences of inorganic and polycyclic aromatic hydrocarbons on the sources of PM_{2.5} in the Southeast Asian urban sites. *Air Quality, Atmosphere & Health* 10 (8), 999-1013, 2017. Doi: 10.1007/s11869-017-0489-5 (*Web of Science, Q2, Impact Factor 3.7630*)

13. Puteri Nurafidah Hosaini, **Khan MF***, Nur Ili Hamizah Mustaffa, Norhaniza Amil, Noorlin Mohamad, Mohd Shahrul Mohd Nadzir, Mohd Talib Latif. Concentration and Source Apportionment of Volatile Organic Compounds (VOCs) in the Ambient Air of Kuala Lumpur, Malaysia. *Natural Hazards* 85(1), 437-452, 2017. Doi: 10.1007/s11069-016-2575-7 (*Web of Science, Q2, Impact factor 3.102*)
14. **Khan MF***, Sulong NA, Latif MT, Nadzir MSM, Amil N, Hussain DFM, Lee V, Hosaini PN, Shaharom S, Yusoff NAYM, Hoque HMS, Chung JX, Sahani M, Tahir NM, Juneng L, Maulud KNA, Abdullah SMS, Fujii Y, Tohno S and Mizohata A. Comprehensive assessment of PM_{2.5} physicochemical properties during the Southeast Asia dry season (south-west monsoon). *Journal of Geophysical Research-Atmospheres* 121(24), 14589-14611, 2016. <https://doi.org/10.1002/2016JD025894> (*Web of Science, Q1, Impact Factor 4.261*)
15. **Khan MF***, Latif MT, Saw W, Amil N, Nadzir MSM, Sahani M, Tahir NM and Chung JX. Fine particulate matter in the tropical environment: monsoonal effects, source apportionment, and health risk assessment. *Atmospheric Chemistry and Physics* 16, 597-617, 2016. DOI:10.5194/acp-16-597-2016 (*Web of Science, Q1, Impact factor 6.133*)
16. **Khan MF***, Latif MT, Lim CH, Jaafar SA, Amil N, Dominick D, Nadzir MSM, Sahani M and Tahir NM. Seasonal effect and Source Apportionment of Polycyclic Aromatic Hydrocarbons in PM_{2.5}. *Atmospheric Environment* 106, 178-190, 2015. doi.org/10.1016/j.atmosenv.2015.01.077 (*Web of Science, Q1, Impact Factor 4.798*)
17. **Khan MF***, Mohd T Latif; Norhaniza Amil; Liew Juneng; Noorlin Mohamad; Mohd Shahrul M Nadzir. Characterisation and source apportionment of particle number concentration at a semi-urban tropical environment. *Environmental Science and Pollution Research* 22, 13111-13126, 2015. DOI: 10.1007/s11356-015-4541-4 (*Web of Science, Q2, Impact Factor 4.223*)
18. **Khan MF***, Mohd T. Latif, L. Juneng, N. Amil and Hossain Mohammed Syedul Hoque. Physicochemical factors and sources of PM₁₀ in residential- urban environment in Kuala Lumpur. *Journal of Air & Waste Management Association* 65, 958-969, 2015. <https://doi.org/10.1080/10962247.2015.1042094> (*Web of Science, Q3, Impact Factor 2.235*)
19. **Khan MF***, K. Hirano and S. Masunaga: Assessment of the sources of Suspended Particulate Matter Aerosol using US EPA PMF 3.0. *Environmental Monitoring and Assessment* 184(2), 1063-1083, 2012. doi: 10.1007/s10661-011-2021-y (*Web of Science, Q3, Impact Factor 2.513*)
20. **Khan MF***, Y. Shirasuna, K. Hirano and S. Masunaga: Urban and suburban aerosol in Yokohama, Japan: a comprehensive chemical characterization. *Environmental Monitoring and Assessment* 171 (1-4), 441-456, 2010. doi: 10.1007/s10661-009-1290-1 (*Web of Science, Q3, Impact Factor 2.513*)
21. **Khan MF***, Shirasuna Y, Hirano K and Masunaga S. Characterization of PM_{2.5}, PM_{2.5-10} and PM_{>10} in ambient air, Yokohama, Japan. *Atmospheric Research* 96, 159-172, 2010. [http://dx.doi.org/10.1016/j](http://dx.doi.org/10.1016/j.atmosres.2010.03.040) (*Web of Science, Q1, Impact Factor 5.369*)
22. **Khan MF***, Hirano K and Masunaga S. Quantifying the sources of hazardous elements in suspended particulate matter (SPM) aerosol in Yokohama, Japan. *Atmospheric Environment* 44, 2646-2657, 2010. <https://doi.org/10.1016/j.atmosenv.2010.03.040> (*Web of Science, Q1, Impact Factor 4.798*)

Co-authors

23. Shahid Uz Zaman, Abdus Salam, Md. Riad Sarkar Pavel, Rumana Islam Rani, Farah Jeba, Md. Safiqul Islam, **Khan MF**, Ross Edwards. Aerosol climatology characterisation over Bangladesh using ground-based and remotely sensed satellite measurements. *Elementa: Science of the Anthropocene*, 2022, 10 (1), 000063. <https://doi.org/10.1525/elementa.2021.000063> (*Web of Science, Q1, Impact Factor 6.053*)
24. Praveena, Sarva Mangala, Crystal Kuan Xin-Yi, Josephine Ying Chyi Liew, and **Khan MF**. Functionalized Magnetite Nanoparticle Coagulants with Tropical Fruit Waste Extract: A Potential for Water Turbidity Removal. *Arabian Journal for Science and Engineering* (2022): 1-10. DOI: <https://doi.org/10.1007/s13369-022-06758-w> (*Web of Science, Impact Factor 2.334*).
25. Murnira Othman, Mohd Talib Latif, Nur Nadrah Mohd Naim, Sharifah Mazrah Sayed Mohamed Zain, **Khan MF**, Mazrura Sahani, Muhammad Ikram A Wahab, Nurzawani Md Sofwan, Haris Hafizal Abd Hamid, Ahmad Fariz Mohamed. Children's exposure to PM_{2.5} and its chemical constituents in indoor and outdoor schools urban environment, *Atmospheric Environment*, 2022, 118963, <https://doi.org/10.1016/j.atmosenv.2022.118963>. (*Web of Science, Q1, Impact Factor 4.798*)
26. Singh, Nandita; Banerjee, Tirthankar; Deboudt, Karine; Chakraborty, Abhishek; **Khan MF**; Latif, Mohd Talib. Sources, composition, and mixing state of submicron particulates over central Indo-Gangetic Plain. *ACS Earth and Space Chemistry*, 5 (8), 2052-2065, 2021. <https://pubs.acs.org/doi/10.1021/acsearthspacechem.1c00130> (*Web of Science, Q1, Impact Factor 3.475*)

27. Nandita Singh, Tirthankar Banerjee, Vishnu Murari, Karine Deboudt, **Khan MF**, RS Singh and Mohd Talib Latif. Insights into size-segregated particulate chemistry and sources in urban environment over *central Indo-Gangetic Plain*. *Chemosphere*, 263, 128030, 2021. <https://doi.org/10.1016/j.chemosphere.2020.128030>
(*Web of Science*, *Q1*, *Impact Factor 7.086*)
28. Dahari, N., Muda, K., Latif, M. T., Dominick, D., Hussein, N., & **Khan MF**. (2021). Seasonal variations of particle number concentration and its relationship with PM_{2.5} mass concentration in industrial-residential airshed. *Environmental Geochemistry and Health*. <https://doi.org/10.1007/s10653-021-01099-3> (*Web of Science*, *Q1*, *Impact Factor 4.609*)
29. Pang, S. Y., Suratman, S., Latif, M. T., **Khan MF**, Simoneit, B. R. T., & Mohd Tahir, N. (2021). Polycyclic aromatic hydrocarbons in coastal sediments of Southern Terengganu, South China Sea, Malaysia: source assessment using diagnostic ratios and multivariate statistic. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-16762-6> (*Web of Science*, *Q2*, *Journal's Rank 91/274*, *Impact Factor 4.223*)
30. Jeba, F., Karim, T. T., **Khan MF**, Latif, M. T., Quddus, K. F., Salam, A. Receptor modelling and risk factors of polycyclic aromatic hydrocarbons (PAHs) in the atmospheric particulate matter at an IGP outflow location (island of the bay of Bengal—Bhola, Bangladesh). *Air Quality, Atmosphere & Health*, 14, 1417-1431, 2021. <https://doi.org/10.1007/s11869-021-01031-9> (*Web of Science*, *Q2*, *Impact Factor 3.7630*)
31. Azwani Alias, Mohd Shahrul Mohd Nadzir, Mohd Talib Latif, **Khan MF**, HHA Hamid, Mazrura Sahani, MIA Wahab, Murnira Othman, Faizal Mohamed, Noorlin Mohamad, Norhaniza Amil, OM Kolapo. Concentration of particulate matters in mechanically ventilated school classroom during haze episode in Kuala Lumpur city centre. *Air Quality, Atmosphere & Health*, 2021. Doi:10.1007/s11869-021-01132-5. (*Web of Science*, *Q2*, *Impact Factor 3.7630*)
32. Mikinori Kuwata, Takuma Miyakawa, Satoru Yokoi, **Khan MF**, and Mohd Talib Latif. The Madden-Julian Oscillation Modulates the Air Quality in the Maritime Continent. *Earth and Space Science*, 8, e2021EA001708, 2021. <https://doi.org/10.1029/2021EA001708>
(*Web of Science*, *impact factor 2.90*, *Q2*)
33. Dahari, N., Muda, K., **Khan, MF**, Latif, M. T., Hussein, N., & Dominick, D. (2021). Chemical Characterization and Source Apportionment of PM_{2.5} near Semi-Urban Residential-Industrial Areas. *Exposure and Health*. <https://doi.org/10.1007/s12403-021-00425-5> (*Web of Science*, *Q1*, *Impact Factor 11.422*)
34. ZAINAL, Safari; ZAMRE, Nurfatih Mursyida; **Khan MF**. Emission level of air pollutants during 2019 pre-haze, haze, and post-haze episodes in Kuala Lumpur and Putrajaya. *Malaysian Journal of Chemical Engineering and Technology (MJCET)*, 4(2), 137-154, 2021. doi: <https://doi.org/10.24191/mjcet.v4i2.14299> (Non-index).
35. Royston Uning, Mohd Talib Latif, Haris Hafizal Abd Hamid, Mohd Shahrul Mohd Nadzir, **Khan MF**, and Suhaimi Suratman. Sea-to-Air Fluxes of Isoprene and Monoterpenes in the Coastal 2 Upwelling Region of Peninsular Malaysia. *ACS Earth and Space Chemistry*, 2021 (accepted). <https://doi.org/10.1021/acsearthspacechem.1c00270>.
(*Web of Science*, *Q1*, *Impact Factor 3.475*)
36. Ezani, E.; Dhandapani, S.; Heal, M. R.; Praveena, S. M.; **Khan MF**; Ramly, Z. T. A., Characteristics and Source Apportionment of Black Carbon (BC) in a Suburban Area of Klang Valley, Malaysia. *Atmosphere* **2021**, 12 (6), 784. <https://doi.org/10.3390/atmos12060784> (*Web of Science*, *Impact Factor: 2.686*)
37. Bristy, M. S., Sarker, K. K., Baki, M. A., Quraishi, S. B., Hossain, M. M., Islam, A., **Khan MF**. Health risk estimation of metals bioaccumulated in commercial fish from coastal areas and rivers in Bangladesh. *Environmental Toxicology and Pharmacology*. 86, 103666, 2021. <https://doi.org/10.1016/j.etap.2021.103666> (*Web of Science*, *Q2*, *Impact Factor 4.86*)
38. Banerjee, T., Shitole, A.S., Mhawish, A., Anand, A., Ranjan, R., **Khan MF**, et al. Aerosol climatology over South and Southeast Asia: Aerosol types, vertical profile and source fields. *Journal of Geophysical Research-Atmospheres*, 126, 2021, e2020JD033554. <https://doi.org/10.1029/2020JD033554> (*Web of Science*, *Q1*, *Impact Factor 4.261*)
39. Alias, A., Latif, M. T., Othman, M., Azhari, A., Abd Wahid, N. B., Aiyub, K., & **Khan, M. F.** (2021). Compositions, source apportionment and health risks assessment of fine particulate matter in naturally-ventilated schools. *Atmospheric Pollution Research*, 12, 101190. <https://doi.org/https://doi.org/10.1016/j.apr.2021.101190>
(*Web of Science*, *Q2*, *Impact Factor 4.352*)
40. Hassan, H., Latif, M. T., Juneng, L., Amil, N., **Khan, M. F.**, Fujii, Y., Jamhari, A. A., Hamid, H. H. A., & Banerjee, T. (2021). Chemical characterization and sources identification of PM_{2.5} in a tropical urban city during non-hazy conditions. *Urban Climate*, 39, 100953. <https://doi.org/https://doi.org/10.1016/j.uclim.2021.100953>.
(*Web of Science*, *Q1*, *Impact Factor 5.731*)

41. Ahmad Norazhar Mohd Yatim, Mohd Talib Latif, Nurzawani Md Sofwan, Fatimah Ahamad, **Khan MF**, Wan Rozita Wan Mahiyuddin, Mazrura Sahani. The association between temperature and cause-specific mortality in the Klang Valley, Malaysia. *Environmental Science and Pollution Research*. 2021. <https://doi.org/10.1007/s11356-021-14962-8>. (*Web of Science, Q2, Journal's Rank 91/274, Impact Factor 4.223*)
42. Murnira Othman, Mohd Talib Latif, Anas Ahmad Jamhari, Haris Hafizal Abd Hamid, Royston Uning, **Khan MF**, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Muhammad Ikram Abdul Wahab, Kok Meng Chan. Spatial distribution of fine and coarse particulate matter during a southwest monsoon in peninsular Malaysia, *Chemosphere*, 262, 127767, 2021. <https://doi.org/10.1016/j.chemosphere.2020.127767> (*Web of Science, Q1, Impact Factor 7.086*)
43. Zain, S.M.S.M.; Latif, M.T.; Baharudin, N.H.; Anual, Z.F.; Hanif, N.M.; **Khan MF**. Atmospheric PCDDs/PCDFs levels and occurrences in Southeast Asia: A review. *Science of The Total Environment* 2021, 783, 146929, doi:<https://doi.org/10.1016/j.scitotenv.2021.146929> (*Web of Science, Q1, Impact Factor 7.963*).
44. Ezani, E., Brimblecombe, P., Asha'ari, Z. H., Fazil, A. A., Ismail, S. N. S., Ramly, Z. T. A., **Khan MF**, Indoor and Outdoor Exposure to PM_{2.5} during COVID-19 Lockdown in Suburban Malaysia. *Aerosol and Air Quality Research*, 21 (3), 200476, 2021. <https://doi.org/10.4209/aaqr.2020.07.0476>. (*Web of Science, Impact Factor 3.063*)
45. M. H. A. Jahurul, O. K. Shian, M. S. Sharifudin, M. Hasmadi, J. S. Lee, A. H. Mansoor, R. Jumardi, **Khan MF**, S. Jinap, A. K. Mohd Omar & I. S. M. Zaidul. Effects of drying methods on oxidative stability of roselle seed oil (Hibiscus Sabdariffa): an optimization approach. *Journal of Food Science and Technology* 58, 902-910, 2021. <https://doi.org/10.1007/s13197-020-04604-1> (*Web of Science, Impact Factor 2.701*)
46. Marvin, M. R., Palmer, P. I., Latter, B. G., Siddans, R., Kerridge, B. J., Latif, M. T., and **Khan MF**: 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, 2021, <https://doi.org/10.5194/acp-21-1917-2021>, 2021 (*Web of Science, Q1, Impact Factor 6.133*)
47. Siti Amira 'Ainaa' Idris, Marlia M. Hanafiah, **Khan MF**, Haris Hafizal Abd Hamid. Indoor Generated PM_{2.5} Compositions and Volatile Organic Compounds: Potential Sources and Health Risk Implications. *Chemosphere*, 255, 126932, 2020 (*Web of Science, Q1, Impact Factor 7.086*)
48. Idris, S.A.', Hanafiah, M.M., Ismail, M. Islam, S Abdullah, **Khan MF**. Laboratory air quality and microbiological contamination in a university building. *Arabian Journal of Geosciences* 13, 580, 2020. <https://doi.org/10.1007/s12517-020-05564-8>. (*Web of Science, Q4, Impact Factor 1.827*)
49. Haris Hafizal Abd Hamid, Mohd Talib Latif, Royston Uning, Mohd Shahrul Mohd Nadzir, **Khan MF**, Goh Choo Ta, Narayanan Kannan. Observations of BTEX in ambient air of Kuala Lumpur by passive sampling. *Environmental Monitoring and Assessment*, 192, 342, 2020. <https://doi.org/10.1007/s10661-020-08311-4> (*Web of Science, Q3, Impact Factor 2.513*)
50. Kiely, Laura; Spracklen, Dominick; Wiedinmyer, Christine; Conibear, Luke; Reddington, Carly; Arnold, Stephen; Knute, Christoph; **Khan MF**; Latif, Mohd; Syaufina, Lailan; Adrianto, Hari. Air quality and health impacts of vegetation and peat fires in Equatorial Asia during 2004 – 2015. *Environmental Research Letters*. 15 (9), 094054, 2020. <https://doi.org/10.1088/1748-9326/ab9a6c> (*Web of Science, Q1, Impact Factor 6.793*)
51. Kishor Kumar Sarker, Moumita Saha Bristy, Nur Alam, Mohammad Abdul Baki, Fajlul Haque Shojib, Shamshad B. Quraishi, and **Khan MF**. Ecological Risk and Source Apportionment of Heavy Metals in Surface Water and Sediments on Saint Martin's Island in Bay of Bengal. *Environmental Science and Pollution Research*, 27, 31827–31840, 2020, <https://doi.org/10.1007/s11356-020-09384-x> (*Web of Science, Q2, Impact Factor 4.223*)
52. Liu T, Mickley LJ, Marlier ME, DeFries RS, **Khan MF**, Latif MT, Karambelas AJEP. Diagnosing spatial biases and uncertainties in global fire emissions inventories: Indonesia as regional case study. *Remote Sensing of Environment* 237, 111557, 2020. doi.org/10.1016/j.rse.2019.111557 (*Web of Science, Q1, Impact Factor 10.164*)
53. Kumar P, Adelodun AA, **Khan MF**, Krisnawati H, Garcia-Menendez F. Towards an improved understanding of greenhouse gas emissions and fluxes in tropical peatlands of Southeast Asia. *Sustainable Cities and Society* 53, 101881, 2020. <https://doi.org/10.1016/j.scs.2019.101881> (*Web of Science, Q1, Impact Factor 7.587*)
54. Baki MA, Shojib MFH, Sehrin S, Chakraborty S, Choudhury TR, Bristy MS, Ahmed MK, Yusoff SB, **Khan MF**. Health risk assessment of heavy metal accumulation in the Buriganga and Turag River systems for *Puntius ticto*, *Heteropneustes fossilis*, and *Channa punctatus*. *Environmental geochemistry and health* 42, 531-543, 2020. doi: 10.1007/s10653-019-00386-4 (*Web of Science, Q1, Impact Factor 4.609*)
55. Hassan, H., Latif, M. T., Juneng, L., Amil, N., **Khan MF**, Yik, D. J., Abdullah, N. A. Interaction of PM₁₀ concentrations with local and synoptic meteorological conditions at different temporal scales. *Atmospheric Research*. 241, 104975, 2020, <https://doi.org/10.1016/j.atmosres.2020.104975>

- (*Web of Science, Q1, Impact Factor 5.369*)
56. Jahurul, M. H. A., Azzatul, F. S., Sharifudin, M. S., Norliza, M. J., Hasmadi, M., Lee, J. S., Patricia, M., Jinap, S., Ramlah George, M. R., **Khan MF**, Zaidul, I. S. M. Functional and nutritional properties of rambutan (*Nephelium lappaceum* L.) seed and its industrial application: A review. *Trends in Food Science & Technology*. 99, 367-374, 2020 <https://doi.org/10.1016/j.tifs.2020.03.016> (*Web of Science, Q1, Impact factor 12.563*)
 57. Nurul Nadjwa Nahrowi, Boon Yih Hui, Mohamad Shariff Shahrman, Noorfatimah Yahaya, Nur Nadhirah Mohd Zain, Saliza Asman, **Md Firoz Khan**, Kavirajaa Pandian Sambasevam, Vuanghao Lim, Muggundha Raoov. Determination of Phenanthrene and Fluoranthene in Rice Samples by Activated Carbon-Based Dispersive Solid Phase Micro-Extraction Coupled with Gas Chromatography- Flame Ionization Detector Analysis. *Malaysian Journal of Analytical Sciences*, 24 (6), 882 - 892, 2020. (*Scopus*).
 58. Kiely L, Spracklen DV, Wiedinmyer C, Conibear L, Reddington CL, Archer-Nicholls S, Lowe D, Arnold SR, Knote C, **Khan MF**, Latif MT, Kuwata M, Budisulistiorini SH and Syaufina L. New estimate of particulate emissions from Indonesian peat fires in 2015. *Atmospheric Chemistry and Physics*. 19, 11105-11121, 2019. <https://doi.org/10.5194/acp-19-11105-2019> (*Q1, ISI, Impact factor 6.192*)
 59. Sulong NA, Latif MT, Sahani M, **Khan MF**, Fadzil MF, Tahir NM, Mohamad N, Sakai N, Fujii Y, Othman M and Tohno S. Distribution, sources and potential health risks of polycyclic aromatic hydrocarbons (PAHs) in PM_{2.5} collected during different monsoon seasons and haze episode in Kuala Lumpur. *Chemosphere* 219, 1-14, 2019. doi: 10.1016/j.chemosphere.2018.11.195 (*Web of Science, Q1, Impact Factor 7.086*)
 60. Tajudin, MABA, **Khan MF**, Mahiyuddin, W. R. W., Hod, R., Latif, M. T., Hamid, A. H., Rahman, S. A., Sahani, M. Risk of concentrations of major air pollutants on the prevalence of cardiovascular and respiratory diseases in urbanized area of Kuala Lumpur, Malaysia. *Ecotoxicology and Environmental Safety* 171, 290-300, 2019. doi: 10.1016/j.ecoenv.2018.12.057 (*Web of Science, Q1, Impact Factor 6.291*)
 61. Nadzir MSM, Cain M, Robinson AD, Bolas C, Harris N R P, Parnikoza I, Salimun E, Mustafa E M, Alhasa K M, Zainuddin M H M Ghee O C, Morris K, **Khan MF**, Latif M T, Wallis B M, Cheah W, Zainudin S K, Yusop N, Ahmad M R, Hussin W M R W, Salleh S M, Hamid H H A, Lai G T, Uning R, Bakar M A A, Ariff N M, Tuah Z, Wahab M I A, Foong S Y, Samah A A, Chenoli S N, Wan Johari W L, Zain C R C M, Rahman N A, Rosenstiel T N, Yusoff A H, Sabuti A A, Alias S A, Noor A Y M, 2018. Isoprene hotspots at the Western Coast of Antarctic Peninsula during MASEC'16. *Polar Science*, 20, 63-74, 2019. doi: 10.1016/j.polar.2018.12.006 (*Web of Science, Q3, Impact factor 1.927*)
 62. Haris Hafizal Abd Hamid, Mohd Talib Latif, Mohd Shahrul Mohd Nadzir, Royston Uning, **Khan MF**, Narayanan Kannan. Ambient BTEX levels over urban, suburban and rural areas in Malaysia. *Air Quality, Atmosphere & Health* 12, 341-351, 2019. doi.org/10.1007/s11869-019-00664-1 (*Web of Science, Q2, Impact Factor 3.7630*)
 63. Yusoff MF, Latif MT, Juneng L, **Khan MF**, Ahamad F, Chung JX, Mohtar AAA. Spatio-temporal assessment of nocturnal surface ozone in Malaysia. *Atmospheric Environment* 207, 105-116, 2019. doi.org/10.1016/j.atmosenv.2019.03.023 (*Web of Science, Q1, Impact Factor 4.798*)
 64. Jahurul, M. H. A.; Ying, L. N.; Amir, H. M. S.; Azzatul, F. S.; Sharifudin, M. S.; Hasmadi, M.; Lee, J. S.; Mansoor, A. H.; Jumardi, R.; Matanjun, P.; **Firoz Khan, M.**; Zaidul, I. S. M., Effects of drying methods on the characteristics of rambutan (*Nephelium lappaceum* L.) seed fat: An optimisation approach. *Engineering Reports* 2019, 1 (3), e12050. <https://doi.org/10.1002/eng2.12050>. (*Web of Science*)
 65. Ahamad F, Latif MT, Yusoff MF, **Khan MF**, Juneng L. So near yet so different: Surface ozone at three sites in Malaysia. *IOP Conference Series: Earth and Environmental Science* 228, 2019. doi: 10.1088/1755-1315/228/1/012024 (*Scopus*).
 66. Yatim ANM, Latif MT, Ahamad F, **Khan MF**, Nadzir MSM, and Juneng L. Observed trends in extreme temperature over the Klang Valley, Malaysia. *Advances in Atmospheric Sciences* 36(12), 1355–1370, 2019. 10.1007/s00376-019-9075-0 (*Web of Science, Q3, Impact Factor 3.158*)
 67. Hossain MAM, Uddin SMK, Sultana S, Bonny SQ, **Khan MF**, Chowdhury ZZ, Johan MR, Ali ME. Heptaplex polymerase chain reaction assay for the simultaneous detection of beef, buffalo, chicken, cat, dog, pork, and fish in raw and heat-treated food products. *Journal of Agricultural and Food Chemistry* 67, 8268-8278, 2019. doi: 10.1021/acs.jafc.9b02518 (*Web of Science, Q1, Impact Factor 5.279*)
 68. Latif MT, Abd Hamid HH, Ahamad F, **Khan MF**, Nadzir MSM, Othman M, Sahani M, Abdul Wahab MI, Mohamad N, Uning R, Poh SC, Fadzil MF, Sentian J, Tahir NM. BTEX compositions and its potential health impacts in Malaysia. *Chemosphere* 237, 2019. doi.org/10.1016/j.chemosphere.2019.124451 (*Web of Science, Q1, Impact Factor 7.086*)

69. Zolkaply SZB, Alam L, Kutty AA, **Khan F**, Mokhtar M. A review on climate change, sea level change and paleoclimate history. *Journal of Engineering and Applied Sciences* 14, 423-429, 2019. <https://doi.org/10.3923/jeasci.2019.423.429> (**Scopus**).
70. Dahari N, Muda K, Hussein N, Latif MT, **Khan MF**, Khir MM, 2019. Long-Range Transport and Local Emission of Atmospheric PM_{2.5} in Southern Region of Peninsular Malaysia, IOP Conference Series: Materials Science and Engineering. IOP Publishing, 636, 012005, 2019. 10.1088/1757-899X/636/1/012005 (**Scopus**).
71. Haque Akanda MJ, Norazlina MR, Azzatul FS, Shaarani S, Mamat H, Lee JS, J N, A.H M, Selamat J, **Khan F**, Matanjun P, Islam Sarker MZ. Hard Fats Improve the Physicochemical and Thermal Properties of Seed Fats for Applications in Confectionery Products. *Food Reviews International* 1-25, 2019. <https://doi.org/10.1080/87559129.2019.1657443> (**Web of Science, Q1, Impact Factor 6.478**)
72. Ali MYM, Hanafiah MM, **Khan MF**. Potential factors that impact the radon level and the prediction of ambient dose equivalent rates of indoor microenvironments. *Science of The Total Environment* 626, 1-10, 2018. DOI: 10.1016/j.scitotenv.2018.01.080 (**Web of Science, Q1, Impact Factor 7.963**)
73. Latif MT, Na TS, Baharudin NH, Srithawirat T, Mohamad N, **Khan MF** and Sulaiman FR. Composition of Trace Metals in Indoor Dust During and after Building Renovation. *Environmental Engineering & Management Journal (EEMJ)* 17 (8), 1781-1790, 2018 (**Web of Science, Q4, Impact Factor 0.916**)
74. Latif MT, Othman M, Idris N, Juneng L, Abdullah AM, Hamzah WP, **Khan MF**, Nik Sulaiman, Nik Meriam, Jewaratnam, Jegalakshimi, Aghamohammadi, Nasrin, Sahani, Mazrura, Xiang, Chung Jing, Ahamad, Fatimah, Amil, Norhaniza, Darus, Mashitah, Varkkey, Helena, Tangang, Fredolin, Jaafar, Abu Bakar. Impact of regional haze towards air quality in Malaysia: A review. *Atmospheric Environment* 177, 28-44, 2018. <https://doi.org/10.1016/j.atmosenv.2018.01.002> (**Web of Science, Q1, Impact Factor 4.798**)
75. Elhadi RE, Abdullah AM, Abdullah AH, Ash'aari ZH, **Khan MF**. Seasonal Variations of Atmospheric Particulate Matter and its Content of Heavy Metals in Klang Valley, Malaysia. *Aerosol and Air Quality Research* 18 (5), 1148-1161, 2018. doi:10.4209/aaqr.2017.03.0113 (**Web of Science, Q2, Impact factor 3.063**)
76. Chiu TR, **Khan MF**, Latif MT, Nadzir MSM, Hamid HHA, Yusoff H & Ali MM. Distribution of Polycyclic Aromatic Hydrocarbons (PAHs) in Surface Sediments of Langkawi Island, Malaysia. *Sains Malaysiana* 47(5), 871–882, 2018. DOI: 10.17576/jsm-2018-4705-02 (**Web of Science, Q3, Impact factor 1.009**)
77. Jaafar SA, Latif MT, Razak IS, Wahid NBA, **Khan MF**, Srithawirat T. Composition of carbohydrates, surfactants, major elements and anions in PM_{2.5} during the 2013 Southeast Asia high pollution episode in Malaysia. *Particuology* 37, 119-126, 2018. <https://doi.org/10.1016/j.partic.2017.04.039> (**Web of Science, Q2, Impact factor 3.067**)
78. Nadzir MSM, Ashfold MJ, **Khan MF**, Robinson AD, Bolas C, Latif MT, et al. Spatial-temporal variations in surface ozone over Ushuaia and the Antarctic region: observations from in situ measurements, satellite data, and global models. *Environmental Science and Pollution Research* 25 (3), 2198-2210, 2018. doi: 10.1007/s11356-017-0521-1 (**Web of Science, Q2, Impact Factor 4.223**)
79. Mohammad Abdul Baki, Md. Muzammel Hossain, Jhuma Akter, Shamshad B. Quraishi, Md. Fajlul Haque Shojib, A.K.M. Atique Ullah, **Khan MF**. Concentration of heavy metals in seafood (fishes, shrimp, lobster and crabs) and human health assessment in Saint Martin Island, Bangladesh. *Ecotoxicology and Environmental Safety* 159, 153–163, 2018. doi: 10.1016/j.ecoenv.2018.04.035 (**Web of Science, Q1, Impact Factor 6.291**)
80. Shaharom, S., Latif, M. T., **Khan MF**, Yusof, S. N. M., Sulong, N. A., Wahid, N. B. A., Uning, R., and Suratman, S.: Surfactants in the sea surface microlayer, subsurface water and fine marine aerosols in different background coastal areas, *Environmental Science and Pollution Research* 25, 27074-27089, 2018. DOI: 10.1007/s11356-018-2745-0 (**Web of Science, Q2, Impact Factor 4.223**)
81. Kuwata M, Naganathan GGN, Miyakawa T, **Khan MF**, Kozan O, Kawasaki M, Sumin S and Latif MT. Constraining the Emission of Particulate Matter from Indonesian Peatland Burning Using Continuous Observation Data. *Journal of Geophysical Research-Atmospheres* 123, 9828-9842, 2018. <https://doi.org/10.1029/2018JD028564> (**Web of Science, Q1, Impact Factor 4.261**)
82. Uning, R., Latif, M. T., Yu, K. L., Cheng, S. Y., Ahamad, F., **Khan MF**, Bedurus, E. A., and Suratman, S.: Surfactants in the Sea Surface Microlayer, Underlying Water and Atmospheric Particles of Tropical Coastal Ecosystems. *Water, Air, & Soil Pollution* 229, 305, 2018. <https://doi.org/10.1007/s11270-018-3961-4> (**Web of Science, Q2, Impact factor 2.52**)
83. Alhasa, K., Mohd Nadzir, M., Olalekan, P., Latif, M., Yusup, Y., Iqbal Faruque, M., Ahamad, F., Abd. Hamid, H., Aiyub, K., Md Ali, S., **Khan MF**, Abu Samah, A., Yusuff, I., Othman, M., Tengku Hassim, T., Ezani, N. Calibration Model of a Low-Cost Air Quality Sensor Using an

- Adaptive Neuro-Fuzzy Inference System. *Sensors* 18, 4380, 2018. <https://doi.org/10.3390/s18124380> (*Web of Science, Q1, Impact Factor 3.576*)
84. Nor Diana Abdul Halim, Mohd Talib Latif, Fatimah Ahamad, Doreena Dominick, Jing Xiang Chung, Liew Juneng, **Khan MF**. The Long-Term Assessment of Air Quality on an Island in Malaysia. *Heliyon* 4 (12), e01054, 2018. <https://doi.org/10.1016/j.heliyon.2018.e01054> (*Web of Science*)
 85. Ali MY, Hanafiah MM, **Khan MF**, Latif MT. Quantitative source apportionment and human toxicity of indoor trace metals at university buildings. *Building and Environment* 121, 238-246, 2017. <https://doi.org/10.1016/j.buildenv.2017.05.032> (*Web of Science, Q1, Impact factor 6.456*)
 86. Mohd Shahrul Mohd Nadzir, Chin Yik Lin, **Khan MF**, Mohd Talib Latif, Doreena Dominick, Haris Hafizal Abdul Hamid, Noorlin Mohamad, Khairul Nizam Abdul Maulud, Muhammad Ikram Abdul Wahab, Nurul Farahana Kamaludin, Mohamad Azwani Shah Mat Lazim. Characterization of rainwater chemical composition after a Southeast Asia haze event: insight of transboundary pollutant transport during the northeast monsoon. *Environmental Science and Pollution Research* 24 (18), 15278-15290, 2017. doi: 10.1007/s11356-017-9131-1 (*Web of Science, Q2, Impact Factor 4.22*)
 87. Sulong NA, Latif MT, **Khan MF**, Amil N, Ashfold MJ, Wahab MIA, et al. Source apportionment and health risk assessment among specific age groups during haze and non-haze episodes in Kuala Lumpur, Malaysia. *Science of The Total Environment* 601, 556-570, 2017. doi: 10.1016/j.scitotenv.2017.05 (*Web of Science, Q1, Impact Factor 7.963*)
 88. Sakai, N., S. Yamamoto, Y. Matsui, **Khan MF**, M. T. Latif, M. Ali Mohd, and M. Yoneda. Characterization and source profiling of volatile organic compounds in indoor air of private residences in Selangor State, Malaysia. *Science of The Total Environment* 586, 1579-1586, 2017. doi: 10.1016/j.scitotenv.2017.02 (*Web of Science, Q1, Impact Factor 7.963*)
 89. Norhaniza Amil, Mohd Talib Latif and **Khan MF**, M. Mohamad. Seasonal variability of PM_{2.5} composition and sources in the Klang Valley urban-industrial environment. *Atmospheric Chemistry and Physics* 16, 5357-5381, 2016. <https://doi.org/10.5194/acp-16-5357-2016> (*Web of Science, Q1, Impact factor 6.133*)
 90. Noorlin Mohamad, Mohd Talib Latif and **Khan MF**. Source apportionment and health risk assessment of PM₁₀ in a naturally ventilated school in a tropical environment. *Ecotoxicology and Environmental Safety* 124, 351-362, 2016. <http://dx.doi.org/10.1016/j.ecoenv.2015.11.002> (*Web of Science, Q1, Impact Factor 6.291*)
 91. Mohd Talib Latif, Doreena Dominick, Fatimah Ahamad, Nur Shuhada Ahamad, **Khan MF**, Liew Juneng, Chung Jing Xiang, Andrew D. Robinson, Marzuki Ismail, Mohammed Iqbal Mead, Neil R. P. Harris. Seasonal and Long Term Variations of Surface Ozone Concentration in Borneo Island. *Science of the Total Environment* 573, 2016, 494-504. DOI: 10.1016/j.scitotenv.2016.08.121 (*Web of Science, Q1, Impact Factor 7.963*)
 92. Suhaily Amran, Mohd Talib Latif, **Khan MF**, Eric Goh, Abdul Mutalib Leman, Minoru Yoneda, Shoffian Amin Jaafar. Underestimation of Respirable Crystalline Silica (RCS) Compliance Status among the Granite Crusher Operators in Malaysian Quarries. *Air Quality, Atmosphere and Health* 10(3), 371-379, 2017. 10.1007/s11869-016-0439-7 (*Web of Science, Q2, Impact Factor 3.763*)
 93. Amran, S., Latif, M.T., Leman, A.M., Goh, E., Jaafar, S.A., **Khan MF**, Abidin, Z., Sayuti, A. 2016. Evaluation of performance characteristic between direct and indirect sampling method for respirable crystalline silica (RCS) exposure in granite quarry. *ARP Journal of Engineering and Applied Sciences* 11, 7336-7340, 2016 (**Scopus**).
 94. Mohammad Zahirul Haque, Abd Rahim Sahibin, Fuad Embi Ahmad, Elfithri Rahmah, Lihan Tukimat, Khalik Mohd, **Md Firoz Khan**, Mokhtar Mazlin. Multivariate chemometric approach on the surface water quality in Langat upstream tributaries, Peninsular Malaysia. *Journal of Environmental Science and Technology*. 2016, 9 (3), 277-284. Doi: [10.3923/jest.2016.277.284](https://doi.org/10.3923/jest.2016.277.284) (**Scopus**).
 95. Shoffian Amin Jaafar, Mohd Talib Latif, Intan Suraya Razak, **Khan MF**, Muhammad Zulhilmi Shaharudin, Nurul Bahiyah Abd Wahid, Suhaimi Suratman. Monsoonal Variations in Atmospheric Surfactants at Different Coastal Areas of the Malaysian Peninsula. *Marine Pollution Bulletin* 109(1), 480-489, 2016. doi: 10.1016/j.marpolbul.2016.05.017 (*Web of Science, Q1, Impact Factor 5.553*)
 96. Sahani M, Sulaiman NS, Tan BS, Yahya NA, Anual ZF, Wan Mahiyuddin WR, **Khan MF**, Muttalib KA. Mercury in Dental Amalgam: Are Our Health Care Workers at Risk? *Journal of Air & Waste Management Association* 66(11), 1077-1083, 2016. <https://doi.org/10.1080/10962247.2016.1188866> (*Web of Science, Q3, Impact Factor 2.235*)
 97. Md Masud Rana, Norela Sulaiman, Bjarne Sivertsen, **Khan MF**, Sabera Nasreen. Trends in Atmospheric Particulate Matter in Dhaka, Bangladesh and the Vicinity. *Environmental Science and Pollution Research* 23 (17), 17393-17403, 2016. DOI: 10.1007/s11356-016-6950-4 (*Web of Science, Q2, Impact Factor 4.223*)

98. Razak, ESA, **Khan MF**, Ali MM. Distribution of polycyclic aromatic hydrocarbons in surface sediments of the Straits of Malacca. *Journal of Sustainability Science and Management* 118-128, 2016 (**Scopus**).
99. Doreena Dominick, Mohd Talib Latif, Liew Juneng, **Khan MF**, Norhaniza Amil, Mohammed Iqbal Mead, Mohd Shahrul Mohd Nadzir, Phang Siew Moi, Azizan Abu Samah, Matthew J. Ashold, William T. Sturges, Neil R. P. Harris, Andrew D. Robinson, John Pyle. Characterisation of particle mass and number concentration on the east coast of the Malaysian Peninsula during the northeast monsoon. *Atmospheric Environment* 117, 187-199, 2015. <https://doi.org/10.1016/j.atmosenv.2015.07.018> (**Web of Science, Q1, Impact Factor 4.798**)
100. Intan Suraya Razak, Mohd Talib Latif, Shoffian Amin Jaafar, **Khan MF**, Idris Mushrifah. Surfactants in atmospheric aerosols and rainwater around a lake ecosystem. *Environmental Science and Pollution Research* 22, 6024-6033, 2015. <https://doi.org/10.1021/es049109n> (**Web of Science, Q2, Impact Factor 4.223**)
101. Murad Ali Alsalahi, Mohd Talib Latif, Masni Mohd Ali, Nana Dominick, **Khan MF**, Mohd Shahrul Mohd Nadzir, Mohamad Pauzi Zakaria. Sterols as biomarkers in the surface microlayer of the estuarine areas. *Marine Pollution Bulletin* 93, 278-283, 2015. <https://doi.org/10.1016/j.marpolbul.2015.01.011> (**Web of Science, Q1, Impact Factor 5.553**)
102. OoiEe-Ling, Nur Ili Hamizah Mustaffa, Norhaniza Amil, **Khan MF** and Mohd Talib Latif. Source contribution of PM_{2.5} at different locations on the Malaysian Peninsula. *Bulletin of Environmental Contamination and Toxicology* 94, 537-542, 2015. doi: 10.1007/s00128-015-1477-9 (**Web of Science, Q3, Impact factor 2.151**).
103. Mazrura Sahani, Nurul Ashikin Zainon, Wan Rozita Wan Mahiyuddin, Mohd Talib Latif, Rozita Hod, **Khan MF**, Chang-Chuan Chan. A case-crossover analysis of forest fire haze events and mortality in Malaysia. *Atmospheric Environment* 96, 257-265, 2014. <https://doi.org/10.1016/j.atmosenv.2014.07.043> (**Web of Science, Q1, Impact Factor 4.798**)
104. Anas Ahmad Jamhari, Mazrura Sahani, Mohd Talib Latif, Kok Meng Chan, Hock Seng Tan, **Khan MF**, Norhayati Mohd Tahir. Concentration and source apportionment of Polycyclic Aromatic Hydrocarbons (PAHs) in PM₁₀ of urban, industrial and semi-urban areas in Malaysia. *Atmospheric Environment* 86, 16-27, 2014. <http://doi.org/10.1016/j.atmosenv.2013.12.019> (**Web of Science, Q1, Impact Factor 4.798**)
105. Shoffian Amin Jaafar, Mohd Talib Latif, Chong Woan Chian, Wong Sook Han, Nurul Bahiyah Abd Wahid, **Khan MF**, Suhaimi Suratman, Norhayati Mohd Tahir. Surfactants in Sea-surface Microlayer (SML) and Marine Aerosol around Southern Region of Peninsular Malaysia. *Marine Pollution Bulletin* 84, 1-2, 35-43, 2014. <https://doi.org/10.1016/j.marpolbul.2014.05.047> (**Web of Science, Q1, Impact Factor 5.553**)
106. Murad Ali Alsalahi, Mohd Talib Latif, Masni Mohd Ali, Sami Muhsen Magam, Nurul Bahiyah Abd Wahid, **Khan MF**, Suhaimi Suratman. Distribution of Surfactants along the Estuarine Area of Selangor River, Malaysia. *Marine Pollution Bulletin* 80 (1-2), 344-350, 2014. <https://doi.org/10.1016/j.marpolbul.2013.12.019> (**Web of Science, Q1, ISI, Impact Factor 5.553**)
107. Nur Ili Hamizah Mustaffa, Mohd Talib Latif, Masni Mohd Ali, **Khan MF**. Source apportionment of surfactants in marine aerosols at different locations along the Malacca Straits. *Environmental Science and Pollution Research* 21, 6590-6602, 2014. doi: 10.1007/s11356-014-2562-z (**Web of Science, Q2, Impact Factor 4.223**)
108. Mohd Shahrul Mohd Nadzir, Siew Moi Phang, Mhd Radzi Abas, Noorsaadah Abd. Rahman, Azizan Abu Samah, William T. Sturges, David E. Oram, Graham P. Mills, Emma C. Leedham, J. A. Pyle, N. R. P. Harris, A. D. Robinson, M. J. Ashfold, M.I. Mead, Mohd Talib Latif, **Khan MF**, Abd Muhaimin Amiruddin: Bromocarbons in the tropical coastal and open ocean atmosphere during the Prime Expedition Scientific Cruise 2009 (PESC 09). *Atmospheric Chemistry and Physics* 14, 8137-8148, 2014. <https://doi.org/10.5194/acp-14-8137-2014> (**Web of Science, Q1, Impact factor 6.192**)
109. Mohd Talib Latif, Doreena Dominick, Fatimah Ahamad, **Khan MF**, Liew Juneng, Firdaus Muhammd Hamzah. Long Term Assessment of Air Quality in the Background Station of Peninsular Malaysia. *Science of the Total Environment* 482-483, 336-348, 2014. <https://doi.org/10.1016/j.scitotenv.2014.02.132> (**Web of Science, Q1, Impact Factor 7.963**)
110. Y. Kondo, L. Sahu, N. Moteki, **Khan F**, N. Takegawa, X. Liu, M. Koike, and T. Miyakawa. Consistency and traceability of black carbon measurements made by laser-induced incandescence, thermal-optical transmittance, and filter-based photo-absorption techniques. *Aerosol Science and Technology* 45, 295-312, 2011. <https://doi.org/10.1080/02786826.2010.533215> (**Web of Science, Q2, Impact factor 2.908**)
111. BA Hoque, K. Hallman, J. Levy, H. Bouis, N. Ali, **Khan F**, S. Khanam, M. Kabir, S. Hossain, M.S. Alam: Rural drinking water at supply and household levels: Quality and management. *International Journal Hygiene and Environmental Health* 209, 451-460, 2006. DOI: 10.1016/j.ijheh.2006.04.008 (**Web of Science, Q1, Impact factor 5.84**).

112. BA Hoque, AA Mahmood, M Quadiruzzaman, **Khan F**, SA Ahmed, SAKAM Shafique, M Rahman, G Morshed, T Chowdhury, MM Rahman, FH Khan, M Shahjahan, M Begumand MM Hoque: Recommendations for water supply in arsenic mitigation: a case study from Bangladesh. *Public Health* 114(6), 488-494, 2000. doi: 10.1155/2014/304524
(*Web of Science*, *Q3*, *Impact factor 2.427*)

Book

113. **New Prospects in Environmental Geosciences and Hydrogeosciences**. Editors: Chenchouni, H., Chaminé, H.I., **Khan MF**, Merkel, B.J., Zhang, Z., Li, P., Kallel, A., Khélifi, N. 2022. ISBN: 978-3-030-72543-3. Springer Publisher. DOI:10.1007/978-3-030-72543-3.
[Access Link: <https://www.springer.com/gp/book/9783030725426>]
114. R. L. Verma, N. T. Kim Oanh, E. Winiukul, I. P. Armart, H. Garivait, D. A. Permadi, **MF Khan**, and M. K. Patdu (2022); Capacity Development Programme on Air Quality Management and Emission Reduction of PM_{2.5} for Asian Countries; Regional Resource Centre for Asia and the Pacific, Asian Institute of Technology, Pathum Thani, Thailand. ISBN (e-Book): 978-616-8230-13-8.
[<http://www.rrcap.ait.ac.th/Publications/Capacity%20Development%20Programme%20on%20Air%20Quality%20Management%20and%20Emission%20Reduction%20of%20PM2.5%20for%20Asian%20Countries.pdf>]

Book Chapters

115. Bristy M.S., Sarker K.K., Baki M.A., Quraishi S.B., Khan M.S.R., **Khan MF** (2021) Trace Element Concentrations in Commercial Fish Collected from Coastal Area and Rivers of Bangladesh—Human Health Risk Assessment. In: Ksibi M. et al. (eds) *Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions* (2nd Edition). EMCEI 2019. Environmental Science and Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-51210-1_317.
116. Mazrura Sahani, **Khan MF**, Wan Rozita Wan Mahiyuddin, Mohd Talib Latif, Chris Fook Sheng Ng, Mohd Famey Yussoff, Amir Afiq Abdullah, Er Ah Choy, Norhayati Mohd Tahir. *Air Pollution and Health in Malaysia in Hazardous Air Pollutants: Case Studies from Asia*. edited by Dong-Chun Shin, CRC Press, Taylor & Francis, ISBN9781466593565, 97-114, 2016.
[Access link: <https://www.routledge.com/Hazardous-Air-Pollutants-Case-Studies-from-Asia/Shin/p/book/9781466593565>]
117. Latif MT, Othman M, Abdullah AM, **Khan MF**, Ahamad F, Juneng L. Southeast Asian Forest Fires (1997/1998): El Niño as a Driver of Regional Impacts. *Air Pollution Episodes*. World Scientific (Europe), 191-225, 2017.
[Access link: https://www.worldscientific.com/doi/abs/10.1142/9781786343413_0011]
118. Amil N, Latif MT, **Khan MF**. Characterization and Source Apportionment of Fine Particulate Matter during 2011 Haze Episode in UKM Bangi, Malaysia, *From Sources to Solution*. Springer Singapore, 363-367, 2014.
119. Banan N, Latif MT, Juneng L, **Khan MF**. An Application of Artificial Neural Networks for the Prediction of Surface Ozone Concentrations in Malaysia, *From Sources to Solution*. Springer Singapore, 7-12, 2014.
120. **Khan MF**, Latif M., Amil N, Mohamad N, Banan N. Receptor Modeling Prediction for Potential Sources of PM₁₀ at an Urban Location in Klang Valley, Malaysia, in: Aris, A.Z., Tengku Ismail, T.H., Harun, R., Abdullah, A.M., Ishak, M.Y. (Eds.), *From Sources to Solution*. Springer Singapore, 2014.
121. Mohamad N, Latif MT, **Khan MF**. Chemical Composition and Sources of Indoor and Outdoor PM₁₀ in Primary Schools, *From Sources to Solution*. Springer Singapore, 379-383, 2014.
122. Nadzir MSM, **Khan MF**, Suparta W, Zainudin SK. Comparison of In situ Observation, NOAA-AIRS Satellite and MACC Model on Surface Ozone Over the Ushuaia, Southern Ocean and Antarctic Peninsula Region. In: Suparta W, Abdullah M, Ismail M, editors. *Space Science and Communication for Sustainability*. Springer Singapore, Singapore, 37-45, 2018.

Articles in Newspaper/Magazine/Bulletin

123. **Khan MF**. Interviewed by New Straits Times Online. Pay attention to indoor air pollutants, experts urge. 30 November 2021. New Straits Times Online. [Access link: <https://www.nst.com.my/news/nation/2021/11/750123/pay-attention-indoor-air-pollutants-experts-urge>]
124. **Khan MF**. Interviewed by New Straits Times Online. Sound action plan needed on Indoor Air Quality management. 30 November 2021. New Straits Times Online [Access link: <https://www.nst.com.my/news/nation/2021/11/750125/sound-action-plan-needed-indoor-air-quality-management>]

125. **Khan MF.** Interviewed by The Star Online. Air quality in M'sia getting worse. Sunday, 12 Jan 2020. The Star Online. [Access link: <https://www.thestar.com.my/news/nation/2020/01/12/air-quality-in-msia-getting-worse>]
126. **Khan MF.** Sungai Kim Kim Chemical Poisoning and Disaster in Pasir Gudang, Johor Bharu. Interviewed by TV3, Buletin Utama, 8:04 PM, 12 Mar 2019. Access link: <https://www.youtube.com/watch?v=5ECy4AL1ss4>.
127. **Khan MF.** Air pollution management in Malaysia. UKM "Impact" magazine, Special Issue UKM-IIC2018, ISSN: 2289-9359, page 35, November 2018. <http://www.ukm.my/ukmiic/>
128. **Khan MF.** Intense Biomass Fire Haze Smoke Strikes in Malaysia in September 2015. Bulletin Earth to Space, ISSN: 2462-1528, Page 10-11, Vol. 1, Oct 2015.
129. **Khan MF.** Receptor Modeling for the Legislative Measures on Haze Pollution in Malaysia. Bulletin Earth to Space, ISSN: 2462-1528, Vol. 2, February 2016.
130. **Khan MF,** Mohd Shahrul Mohd Nadzir, Azwani Alias. An implication of particle number (0.25 to 34 μm) and mass concentrations (<10 μm) at a school microenvironment during haze strike in 2015: an experience in the measurement. Bulletin Earth to Space, ISSN: 2462-1528, Vol. 4, 2016.

List of Teaching Courses

- Pollution Control (ENV627)
- Environmental Toxicology and Xenobiotics (ENV436)
- Environment and Health (ENV207)
- Introduction to Environmental Science (ENV107)
- General Chemistry (CHE101)
- Introduction to Environmental Chemistry (SIC2009) (Undergraduate)
- Advanced Environmental Chemistry (SIC3005) (Teaching & Lab) (Undergraduate)
- Analytical Chemistry I (SIC2004) (Lab) (Undergraduate)
- Atomic Spectroscopic Analysis (SQC7003) (Postgraduate)
- Chemometric (SQC7013) (Postgraduate)
- Advanced Research Methodology (HVX7001) (Postgraduate)
- Chemometrics in Air Pollution (New Online Course) (Anyone can enroll who has a basic in chemistry, physics, and statistics)

Conference Talk (Invited)

1. **Keynote Speaker: Md Firoz Khan,** Impact of transboundary cause, anthropogenic sources, and meteorology on air pollution in Bangladesh. International Conference on 'BCSIR Congress 2022, 1-3 December 2022, BCSIR, Dhaka, Bangladesh.
2. **Keynote Speaker: Md Firoz Khan,** Energy usage - aerosol and the reactive gases interaction on the respiratory airways deposition over Dhaka City in Bangladesh. 1st 2022 International Conference on Sustainable Environment, Development, and Energy (CONSER 2022), 5 to 6 December 2022 Denpasar, Bali, Indonesia (Virtual).
3. **Invited Speaker. Md Firoz Khan.** "Workshop on Writing and Publishing High Impact Research Papers in the International Journal" Institut Teknologi Nasional Yogyakarta (ITNY), Yogyakarta, Indonesia, Saturday, 19 November 2022 (virtual platform).
4. **Trainer and RESOURCE PERSON: Md Firoz Khan,** Source apportionment of air pollutants (Lecture & Hands-on). 2nd Workshop on the Capacity Development Programme on Air Quality Management and Emission Reduction of PM_{2.5} for Member Countries of ASEAN Haze Agreement and Malé Declaration (AQM 2022), AIT, Bangkok, Thailand 19-23 September 2022.
5. **Keynote Speaker: Md Firoz Khan,** The presence of toxic chemicals in the air over Dhaka: source apportionment tagging the health risk modeling applicable for mitigation strategies. International conference on 'Environmental Protection for Sustainable Development (ICEPSD-2022), 2-4 September 2022, Dhaka University, Bangladesh.
6. **Khan MF.** Presented as an **Invited Speaker.** "Aerosol - meteorology interaction and respiratory deposition of toxic metals from air particles over Dhaka". The International Land Atmosphere Ecosystem Processes Study (iLEAPS, www.ileaps.org South Asian Region, Earth Day 2022, 22nd April, 17:30– 19:00 IST (Virtual).
7. **Presentation (Oral):** Aerosol source fingerprinting and its risk estimation for the people in Dhaka City. **Md Firoz Khan,** Zarin Tasneem Jawa, Karabi Farhana Biswas, Mohammad Moniruzzaman, Muhammad Nurul Huda, Md. Aftab Ali Shaikh. 2nd International Conference on Genomics, Nanotech and Bioengineering-2022 (ICGNB-2022), June 26-28, 2022, North South University campus, Bashundhara, Dhaka, Bangladesh.
8. **Khan MF.** Presented as an **Invited Speaker** for "Transformation of Atmospheric Composition, to Impact and Mitigation strategy, by Chemometric modeling over southeast Asia". Series of Webinar on China and South Eastern Asia Investigation on Nexus of Energy, Climate and

- Environment (CSEA-NECE) on **10th December 2021** hosted by China University of Mining and Technology. Access Link: <https://www.koushare.com/lives/room/353399>.
9. **Khan MF**. Presented as an **Invited Expert Resource Person** for the “**Capacity Development Program on Air Quality Management and Emission Reduction of PM_{2.5} for Asian Countries**” organized from **13-17 September 2021**, online. Hosted by Regional Resource Centre for Asia and the Pacific (RRC.AP), Asian Institute of Technology (AIT), Thailand. Access link: <http://www.rrcap.ait.ac.th/apn/Pages/default.aspx>.
 10. **Khan MF**. A day-long course on “**Chemometrics in Air Pollution**”. 28 November 2021 09:00–16:00 TRT (Turkey Time). Mediterranean Geosciences Union, Annual Meeting, 25-28 November 2021, Istanbul, Turkey (**Invited Instructor**) [**Access link: www.medgu.org/index.php?p=workshops**].
 11. **Khan MF**. Potential Sources of Air Pollution and Mitigation Strategies in Malaysia, Southeast Asia Global Innovation Challenge 2020 (Online), 2020-12-03 to 2020-12-03, ACS Malaysia Chapter and Universiti Teknologi Petronas (UTP) (**Invited Guest Speaker**).
 12. **Khan MF**. Impact of Southeast Asian Biomass Burning on Haze Pollution and Rainwater Compositions in Malaysia, National Awareness Workshop Acid Deposition Monitoring Network in East Asia (EANET) from 26 until 28 November 2019 at Zenith Hotel, Putrajaya, 2019-11-26 to 2019-11-28, Organized jointly by Malaysia Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) and UNEP (UN Environment Programme) (**Invited Guest Speaker**).
 13. **Khan MF**. Southeast Asian Biomass Burning and Haze pollution choke in Malaysia, 2019 ISPRS Workshop on Remote Sensing and Synergic Analysis on Atmospheric Environment, 2019-10-25 to 2019-10-27, Nanjing, China (**Invited Speaker**).
 14. **Khan MF**, Ahmad Hazuwan Hamid, Mohd Talib Latif. Ambient nanoparticles and reactive gases over Kuala Lumpur and deposition flux in human airways. International Conference on Energy System and Environmental Management. 22 June 2018, Siam Oriental Hotel, Hat Yai District, Songkhla Province, Thailand (**Invited Speaker and International Adviser**).
 15. **Khan MF**, Ahmad Hazuwan Hamid. Source apportionment of Air Pollutants. Environmental Health Research Center, Institute for Medical Research, Malaysia, 17-18 April 2018 (**Invited Speaker and Trainer**).
 16. **Khan MF**. South-westerly monsoon impact on fine particulate matter in Malaysia: trend, source apportionment and health implication. The third workshop on atmospheric composition and the asian monsoon (ACAM) and second ACAM training school. 5-12 June 2017, Jinan University, Guangzhou, China sponsored by UCAR/NCAR (**Invited Speaker**). Access link: <https://www2.acom.ucar.edu/acam/guangzhou-2017-invited-speakers>.
 17. **Khan MF**. A measurement campaign of air pollution at the street level in Kuala Lumpur City: an integrated approach to find the key hotspots areas. 2017 International Conference on Space Science and Communication (IconSpace), Seri Pacific Hotel, Kuala Lumpur, 3-5 May 2017 (**Invited Speaker**). Access link: <https://www.ukm.my/iconspace/2017/www.ukm.my/iconspace/invited-speaker/index.html>.
 18. **Khan MF**. Aerosol pollution in Malaysia: transport, source apportionment, and implication of health risk, 4 October 2016, Dr. Kuwata Mikinori research group, The Earth Observatory of Singapore (EOS), Nanyang Technological University (**Invited Seminar Speaker**). Access link: <https://earthobservatory.sg/events/aerosol-pollution-malaysia-transport-source-apportionment-and-implication-health-risk>.
 19. **Khan MF**, Mohd Talib Latif, Wuan Hwa Saw, Norhaniza Amil, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Norhayati Mohd Tahir, Jing Xiang Chung. Health risk of fine particulate matter associated with the dominating sources during the biomass burning event in the tropical environment. 2nd Malaysian Congress of Toxicology (MyCOT 2015). 29-30 October 2015, Kuala Lumpur, Malaysia (**Invited Speaker**).
 20. **Khan MF**, Ahmad Hazuwan Hamid, Md Aynul Bari, AbdulBasit Ahmad Tajudin, Mohd Talib Latif, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Muhammad Ikram Abdul Wahab, Yusri Yusup, Khairul Nizam Abdul Maulud, Warren Kindzierski, Prashant Kumar. Ambient nanoparticles in Kuala Lumpur: potential sources and deposition flux in human respiratory system. International Conference on Atmospheric Composition and Climate Change in Asia (ICACCCA 2018). 27-28 Mar 2018, Universiti Kebangsaan Malaysia, Malaysia (**Oral presentation**).
 21. **Khan MF**, Mohd Talib Latif, Mazrura Sahani, Khairul Nizam Abdul Maulud, Abdul Basit Ahmad Tajudin, Mohd Shahrul Mohd Nadzir and Yusri Yusup. An integrated measurement of wide-range of air particles near freeways in Kuala Lumpur City: finding the sources, size distribution and the respiratory deposition. The 2017 Theory and Technique, International Aerosol conference in Thailand (2017 T&T IAC-Thailand), 7 to 8 August 2017. Siam Oriental Hotel, Hat Yai District, Songkhla Province, Thailand (**Oral presentation**).

22. **Khan MF**, Mohd Talib Latif, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Norhayati Mohd Tahir, Khairul Nizam Abdul Maulud, Sharifah Mastura Syed Abdullah, Yusuke Fujii, Susumu Tohno, Akira Mizohata. The effect of the south-westerly monsoon on the compositions and sources of fine particulate matter in a Southeast Asian urban location. 3rd International Conference on Environmental Pollution, Restoration, and Management. 6-10 March 2017, Institute for Environment and Natural Resources, Vietnam National University, Quy Nhon, Vietnam (**Oral presentation**).
23. **Khan MF** et al. Seasonal effect on the concentration of carbonaceous aerosol and an estimation of secondary organic carbon at a Southeast Asian site during summer monsoon. 15-17 August 2016, The 10th International Malaysian Studies Conference. Universiti Malaysia Sabah (**Oral presentation**).
24. Md Firoz Khan, Mohd Talib Latif, Hwa Saw, Norhaniza Amil, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Norhayati Mohd Tahir, Jing Xiang Chung. Investigation of Level and Sources of PM_{2.5} at Tropical Environment. International Conference on Biodiversity and Conservation 2015 (ICBC 2015), 26-28 2015, Tanjung Malim, Perak, Malaysia. (**Oral presentation**).
25. Md Firoz Khan, Mohd Talib Latif, Mohd Shahrul Mohd Nadzir, Mazrura Sahani, Mohd Tahir Norhayati, Maulud Khairul Nizam Abdul, Abdullah Sharifah Mastura Syed, Fujii Yusuke, Tohno Susumu, Mizohata Akira. Comprehensive changes of aerosol compositions and reactive gases during south-westerly summer monsoon in a Southeast Asian urban site. 2018 Joint 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference, 25-29 September 2018, Takamatsu, Kagawa, Japan (**Poster presentation**).
26. Md Firoz Khan, Mohd Talib Latif, Noorlin Mohamad and Doreena Dominick. Absolute principal component regression model for the source apportionment of PM₁₀ at west coast of Peninsular Malaysia. 12th International UMT Annual Symposium (UMTAS2013), 8-10 October 2013, Malaysia (**Oral presentation**).
27. Md Firoz Khan, Mohd Talib Latif, Norhaniza Amil, Noorlin Mohamad, and Negar Banan. Receptor modeling prediction for potential sources of PM₁₀ at an urban location in Klang Valley, Malaysia. International conference on environmental forensics, 12-13, November, 2013, Putrajaya, Malaysia (**Poster presentation**).
28. Md Firoz Khan, Y. Shirasuna, K. Hirano, Y. Zushi and S. Masunaga. "Source Apportionment of Suspended Particulate Matter Aerosol Using US EPA PMF 3.0". Dioxin 2010, San Antonio, Texas, USA. September 12-17, 2010 (**Oral presentation**).
29. **Md Firoz Khan**, Y. Shirasuna, K. Hirano and S. Masunaga: Sources characterization of suspended particulate matter aerosol using US EPA PMF 3.0. *Society of Environmental Toxicology and Chemistry (SETAC) Asia/Pacific 2010 Annual Meeting* Guangzhou, China. June 4 to 7, 2010 (**Poster presentation**).
30. Md Firoz Khan, Y. Shirasuna, K. Hirano and S. Masunaga: "Source apportionment of hazardous elements of SPM aerosol in Yokohama, Japan". Korea Symposium on Analytical Chemistry, Makuhari Messe, Chiba, Japan, September 1, 2009 (**Poster presentation**).
31. Md Firoz Khan, Y. Shirasuna, K. Hirano and S. Masunaga: "Chemical Speciation of water soluble ions and carbonaceous fraction in PM_{2.5}, PM_{2.5-10} and PM_{>10} collected in Yokohama, Japan". SETAC Europe: 19th Annual Meeting, Goteborg, Sweden, 31 May – 4 June, 2009 (**Poster presentation**).
32. Md Firoz Khan, Y. Shirasuna, K. Hirano and S. Masunaga: "Characterization of PM_{2.5}, PM_{2.5-10} and PM_{>10} in Ambient Air, Yokohama, Japan". Annual conference of Society for Environmental Sciences, Japan, 18 September, 2008 (**Poster presentation**).

Participation in Societies/Editorial Board

Editorial

1. **Guest Editor** - Observation and Modeling of Air Pollution (a special issue of Sustainability, MDPI, Impact Factor: 3.889) 1/12/2022-current.
Link: https://www.mdpi.com/journal/sustainability/special_issues/N0NEKQ5RWX
2. **Associate Editor** - Frontiers in Environmental Engineering -Air Pollution Management, 2/12/2022-current.
Link: <https://www.frontiersin.org/journals/environmental-engineering/sections/air-pollution-management/editors>
3. **Associate Editor** to Elementa - Science of the Anthropocene (Web of Science, University of California Press, Impact Factor 6.053, Q1) 2016-2022.
access link: [\[https://online.ucpress.edu/elementa/pages/atmosphericscience\]](https://online.ucpress.edu/elementa/pages/atmosphericscience)
4. **Associate Editor** to Arabian Journal of Geosciences (Web of Science, Springer, Impact Factor 1.827, Q3) 2019-2022. Access link: [\[https://www.springer.com/journal/12517/editors\]](https://www.springer.com/journal/12517/editors).
5. **Editorial Member**, KORUS-AQ Special Feature, Elementa - Science of the Anthropocene (Web of Science, University of California Press, Impact Factor 6.053, Q1), 2018 to 2022.

Access link: [<https://online.ucpress.edu/elementa/pages/korusaq>].

6. **Proceedings Editor and Member of the Scientific Committee.** 2nd Conference of the Arabian Journal of Geosciences (CAJG), Track 4: Environmental Earth Sciences. 25-28 November 2019.
7. **Proceedings Editor and Chair of the Technical Committee.** Mediterranean Geosciences Union, 1st Annual Meeting, 25-28 November 2021, Istanbul, Turkey. Access link: [<https://medgu.org/index.php?p=committees>]

Evaluation (reviews/Handling manuscripts/Research Grant/New Teaching Courses/Promotion)

Editorial Handling Manuscripts

-8 manuscripts in Elementa - Science of the Anthropocene

-107 manuscripts in the Arabian Journal of Geosciences

Evaluation of research grant

2022 Reviews a Research Grant submitted to Qatar Foundation in Qatar (ref. UREP-29)

2021 Reviews a Research Grant submitted to Qatar Foundation in Qatar (ref. NPRP14S-0406-210156)

2021 Reviews a Research Grant submitted to Qatar Foundation in Qatar (ref. NPRP-BSRA01-0422-210051)

2021, 2022 Reviews a Research Grant submitted to the Swiss National Science Foundation (ref. NUMBER OF IZLCZ0_206054, PZ00P2_208743)

2019, 2020, 2021 - Reviews the Fundamental Research Grant (FRGS) submitted for the Ministry of Higher Education in Malaysia in the Faculty of Sciences of Universiti Malaya

Evaluation of the UN Environmental Program (UNEP) report

External evaluation on draft actions on air quality (Asia Pacific Report) for UN Environmental Program presented at the Fifth Session of the UN Environment Assembly in February 2021

Evaluation of new teaching course

Course Name: Air Pollution and Climate Change, Code: CE 590 for Indian Institute of Technology (IIT) Mandi

Evaluation of Promotion application

Promotion of Dr. Issam M. Odeh to Professor, Al-Zaytoonah University of Jordan

Research Grants (PI and Co-PI)

Principal investigator (PI)

1. Strategic Air Quality Measurement for Sustainable Campus UM Living Lab Approach, PI, 2021 - 2021, Grant number: LL058-2021, Grant amount: RM20,000.00, University of Malaya Living Lab Grant Programme - SUS (Sustainability Science), (National).
2. Modelling of polycyclic aromatic hydrocarbon (PAHs) integrating the behavioural study for a sustainable coastal society, 2019 - 2021, Program Leader, Impact Oriented Interdisciplinary Research Grant, University of Malaya, Grant number: IIRG009-2019, Grant amount: RM 255,360.00 (National).
3. Source Apportionment and Health Risk Of Polycyclic Aromatic Hydrocarbon From The Gas And Particle Phases, PI, 2019 - 2021, Impact Oriented Interdisciplinary Research Grant, University of Malaya, Grant number: IIRG009A-2019, Grant amount: RM 98500.00 Others MOHE - Top 100 (IIRG)-IISS, (National)
4. Gas-particle Partitioning, Sources and Determination Of Toxic Effect Of Polycyclic Aromatic Hydrocarbon Near A Petrochemical Refinery Site, PI, 2019 - 2023, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, Grant number: FP099-2019, Grant amount: RM98500.00 (National)
5. A comprehensive source apportionment of toxic particles from a coal-fired power plant, Principal Investigator(PI), 2017 - 2019, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, Grant number: FRGS/1/2017/WAB05/UKM/02/6, Grant amount: RM73200.00 (National)
6. Association of short-lived climate pollutants (SLCPs) emitted from forest/wildfires to the Inter-annual climatic variability during the haze strike in Malaysia, Principal Investigator(PI), 2016 - 2018, Universiti Kebangsaan Malaysia (UKM) Young Lecturers Incentive Grant (GGPM) (GGPM), Grant number: GGPM-2016-034, Grant amount: RM38000.00 (National)

Co-principal investigator (Co-PI) (Selected)

1. The Efficacy of a Nozzle Shield for an Atomizer in Reducing the Airborne Aerosol Particles in an Outpatient ENT Clinic", Co-Investigator, Grant Number: PV036-2021, Grant amount: 10,000.00 MYR, period: 01/08/2021 to 31/07/2023, Funding source: University of Malaya Specialist Centre (UMSC) CAR.E. (National)

2. Capacity development programme on air quality management and emission reduction of PM_{2.5} for ASEAN Countries, Co-Investigator, 2021 - 2022, International Funding. Grant number: CBA2020-01MY-Verma, Grant amount: \$59,000.00, Asia-Pacific Network for Global Change Research (APN) (International)
3. Using Public Engagement To Enhance The Effectiveness Of Local Health Advisories For Environmental Pollution And Transboundary Haze, Co-Researcher, 2020 - 2021, International Funding, (International), Project No : IF021-2020, Grant amount: RM245,008.02, Newton Impact Scheme Grant (NFIS) (International)
4. Understanding South and Southeast Asian Haze in 3-Dimension: Aerosol source, climatology, transport and health impacts, Co-Investigator, 2019 - 2021, International Funding, Grant number: IMRC/AISTDF/R&D/P-1/2017, Grant amount: RM206239.00, ASEAN-India Collaborative research project (International)
5. Impacts of Local MSW Residue from Co-processing On Quality of Low Carbon Cement, Co-Researcher, 2020 - 2022, Impact Oriented Interdisciplinary Research Grant, University of Malaya, Others MOHE - Top 100 (IIRG)-IISS, (National), Project No : IIRG002B-2020IISS, Grant amount: RM97545.00 (National)
6. Air Quality and COVID-19: Examining the pollution-pandemic nexus in Dhaka, Co-Investigator, 2020 - 2021, North South University Research Funding. Grant number: CTRG-2020-2021, Grant amount: RM12250.00 (National)
7. Environmental impact and health risk assessment from vehicle emission in Kuala Lumpur urban environment, Co-Investigator, 2019 - 2021, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, Grant number: FRGS/1/2018/WAB05/UKM/01/1, Grant amount: RM105000.00 (National)
8. Low cost high density network for NO_x and ozone over the airport and its surrounding environment, Co-Investigator, 2019 - 2021, Universiti Kebangsaan Malaysia (UKM) PENYELIDIKAN DANA UP, Grant number: GGP-2019-015, Grant amount: RM30000.00 (National)
9. Integrating Energy-Pollution Nexus in a Dynamic LCA Framework for Urban Buildings: Towards Sustainable Conurbation in Malaysia, Co-Investigator, 2016 - 2019, Universiti Kebangsaan Malaysia (UKM) Dana Impak Perdana (DIP), Grant number: DIP-2017-006, Grant amount: RM150,000.00 (National)
10. Evaluation of fine and nano particle concentration in several cities in Malaysia and Thailand, Co-Investigator, 2016 - 2017, Royal Thai Embassy Malaysia, Grant amount: RM20000.00 (International)
11. Variation and Health Impact of ground-level ozone in Malaysia: Mitigation Procedures and Future Policy Implementation, Co-Investigator, 2016 - 2018, Universiti Kebangsaan Malaysia (UKM) Projek Arus Perdana (AP), Grant amount: RM350000.00 (National)
12. Vulnerability and adaptation assessment due to the impacts of sea level rise on fisheries sector, Co-Investigator, 2016 - 2019, Trans-Disciplinary Research Grant Scheme (TRGS), Ministry of Higher Education, Malaysia, Grant number: TRGS/1/2015/UKM/02/5/2, Grant amount: RM197800.00 (National)
13. Characterization, Source Apportionment and Health Risk Assessment of Fine Particulate Matter and Indoor Dust in School Environment, Co-Investigator, 2015 - 2018, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, Grant number: FRGS/1/2015/WAB03/UKM/01/1, Grant amount: RM88200.00 (National)

International Committee or Society and Networking

No	Organisation	Role	Duration	Level
1	Society of Environmental Science (SES) Japan	Member	01/01/2008 - 31/12/2008	International
2	European Geophysical Union (EGU)	Member	01/01/2015 - 31/12/2015	International
3	Air and Waste Management Association (AWMA)	Member	01/01/2016 - 31/12/2017	International
4	Elementa - Atmospheric Science Domain (Web of Science, University of California Press, Impact Factor 6.053, Q1) Access link: https://online.ucpress.edu/elementa/pages/atmosphericscience	Associate Editor	01/01/2016 - 31/12/2022	International
5	Task Force on Haze, Working Group of Air Quality and Haze Episodes for Academy of Sciences Malaysia (ASM) Local & Trans-boundary Haze Study	Member	12/01/2016 - 30/04/2016	National

International Committee or Society and Networking

No	Organisation	Role	Duration	Level
6	KORUS-AQ Special Feature, Elementa - Science of the Anthropocene (Web of Science, University of California Press, Impact Factor 6.053, Q1) Access link: [https://online.ucpress.edu/elementa/pages/korusaq]	Editorial Member	08/11/2018 - 31/12/2022	International
7	Institute of Ocean and Earth Sciences (IOES)	Associate Member	31/01/2019 - 31/12/2023	University
8	Arabian Journal of Geosciences (Web of Science, Springer, Impact Factor 1.827, Q3) Access link: [https://www.springer.com/journal/12517/editors]	Associate Editor	07/06/2019 - present	International
9	Proceedings Editor and Member of the Scientific Committee. 2 nd Conference of the Arabian Journal of Geosciences (CAJG), Track 4: Environmental Earth Sciences. 25-28 November 2019 Access link: [https://www.cajg.org/2019/index.php?p=committees] [https://www.springer.com/gp/book/9783030725426]	Editorial Member	16/08/2019 - 31/12/2019	International
10	Proceedings Editor and Chair of the Technical Committee. Mediterranean Geosciences Union, 1 st Annual Meeting, 25-28 November 2021, Istanbul, Turkey Access link: [https://www.medgu.org/index.php?p=committees]	Editorial Member	2021	International
11	China University of Mining and Technology. Access link: [http://iersd.cumt.edu.cn/zxcy/wpkzjs.htm]	Professor (visiting)	28/10/2019 - 27/09/2022	International
12	Bangladesh Chemical Society	Life Member	Membership No: LM-2239	International
13	Chair of the Scientific Committee, STACLIM International Conferences Access link: [https://www.ukm.my/staclim/2016/www.ukm.my/staclim2016/Committee.html] [https://www.ukm.my/staclim/2018/www.ukm.my/staclim/committee/index.html]	Chair for Scientific Committee	STACLIM2016, 2018;	International
14	Clean Air Forum Society of Malaysia (MyCAS)	Lifetime member	Membership No: LM-17-0012	International
15	South Asian Meteorological Association (SAMA)	Lifetime member	Membership No: SAMA-LM-BAN-37	International
16	Observation and Modeling of Air Pollution (a special issue of Sustainability, MDPI, Impact Factor: 3.889, https://www.mdpi.com/journal/sustainability/special_issues/N0NEKQ5RWX)	Guest Editor	01/12/2022-current	International
17	Frontiers in Environmental Engineering -Air Pollution Management (https://www.frontiersin.org/journals/environmental-engineering/sections/air-pollution-management/editors)	Associate Editor	2/12/2022 current	International