

Curriculum Vitae

of

Abdus Salam, PhD

Professor, Department of Chemistry, University of

Dhaka, Dhaka-1000, Tel.: +88-01817061160

Email: asalam@gmail.com; asalam@du.ac.bd

https://www.du.ac.bd/faculty/faculty_details/CHM/112



HIGHLIGHTS OF THE QUALIFICATIONS

- Research and teaching experiences in Europe, North America, and Southeast Asia on atmospheric science, air quality, chemical characterization of atmospheric gases and particulate matter, impact assessment on human health, climate change and Ecosystem.
- Holding several national and international scientific positions, e.g., Co-Chair - International Global Atmospheric Chemistry (IGAC).
- International research collaboration with **National Aeronautics and Space Administration** (NASA), USA; University of Washington, USA; Wisconsin University, USA; Duke University, USA; Dalhousie University, Canada; Stockholm University, Sweden; Shibaura Institute of Technology, Japan; Academia Sinica, Taiwan; NIES, University of Surrey, UK; University of Bristol, UK.
- Established and operating two research observatories as a Principal Investigator (PI) with most modern instruments for the air quality monitoring.
- Author of 107 research articles in double blind peer reviewed international journals, 4 book chapters and editor of 3 books.
- Already supervised more than 100 research students in the Department of Chemistry, University of Dhaka. Currently supervising (27 students) - 3 PhDs, 6 Masters (Old), 8 Masters (New) and 10 BS 4th years honours project students.
- Many of our published scientific articles became the lead news in the popular daily newspapers in Bangladesh, e.g., Prothom-Alo, The Daily Star.
- Experiences in organizing conferences, workshops, and seminar in national and international level.
- Actively participated in **Electronic** (Talk show/Interview) and **Print media** (Interview) on environmental issues especially on *Atmospheric Chemistry/Pollution: Causes, impacts and mitigation* on International (BBC TV and Radio, Climate Chanel, etc.) and national (BTV, NTV, DBC, Diganto TV, Independent TV, ATN Bangla, ATN News, Boishaki TV, Channel 24, etc.) Channels.
- Occasional consultancy of State Department, USA, World Bank, European Union (EU).

EDUCATION AND TRAINING

- Visiting Scholar, Dec 2011-Mar 2012, Department of Chemistry, York University, Canada.
- Post Doctorate in Atmospheric Chemistry, 2009-2010, CAC, York University, Toronto, Canada.
- Post Doctorate in Atmospheric Science, 2003-2005, Dalhousie University, Halifax, NS, Canada.
- PhD in Atmospheric Analytical Chemistry (Awarded), 2000-2003, Vienna University of Technology, Austria.
- MSc in Physical-Inorganic Chemistry (**First Class**), 1994-1996, Department of Chemistry, Dhaka University, Bangladesh.
- BSc in Chemistry (**First Class**), 1989-1994, Department of Chemistry, University of Dhaka, Bangladesh.
- HSC in Science Group (**First Division**), 1988, Adamjee Cantonment College, Dhaka Board, Bangladesh.
- SSC in Science Group (**First Division**), 1986, Mirzakalu High School, Jessore Board, Bangladesh.

EMPLOYMENT HISTORY

- Dean (Acting): Faculty of Science, University of Dhaka, Bangladesh, since Sept. 4, 2024.
- Professor (since May 2014): Department of Chemistry, University of Dhaka, Bangladesh.
- Associate Professor (2010-2014): Department of Chemistry, University of Dhaka, Bangladesh.
- Assistant Professor (2006-2010): Department of Chemistry, University of Dhaka, Bangladesh.
- Lecturer (2005-2006): Department of Chemistry, University of Dhaka, Bangladesh.
- Project Co-worker (2000-2003): Institute of Analytical Chemistry, TU Vienna, Vienna, Austria.
- Analytical Chemist (1996-2000): A reputed pharmaceutical industry, Dhaka, Bangladesh.

AWARDS

- CFCAS Postdoctoral Scholarship, Dalhousie University, Halifax, Nova Scotia, Canada.
- North South Dialogue Scholarship, Austrian Exchange Service, Vienna, Austria.
- Academic Excellent Scholarship, University of Dhaka, Bangladesh.
- Japan Society for the Promotion of Science (JSPS) & University Grant Commission (UGC) Joint Research award, Bangladesh & Japan 2023-2025.
- Best Poster Award, Centenary Celebration of Dhaka University: Research & Publication Fair, Bangladesh.

PROFESSOR EXPERIENCE

- Co-Chair, International Global Atmospheric Chemistry- <https://igacproject.org/people/abdus-salam-co-chair>, 2023-2026.
- Member, Global Health Oversight Committee, Health Effects Institute (HEI), Boston, USA 2024-2027.
- Scientific Steering Committee member, International Global Atmospheric Chemistry (IGAC-SSC), 2019-2022.
- Scientific Steering Committee member, Health Investigation and Air Sensing for Asian Pollution (SSC, Hi-ASAP)
- Member, International Global Atmospheric Chemistry-Monsoon Asia and Oceania Networking Group (IGAC-MANGO)
- Executive committee member, Aerosol composition and Asian Monsoon (ACAM) workshop
- Member, American Geophysical Union (AGU)
- Member, European Geoscience Union (EGU)
- Member, Canadian Chemical Society (CCS)
- Member, Bangladesh Chemical Society (BCS)
- Member, Dhaka University Alumni Association (DUAA)
- Member, Dhaka University Chemistry Alumni Association (DHCAA)
- Member, Society for Pharmaceutical Chemist, Bangladesh

INTERNATIONAL COLLABORATION

- National Aeronautics and Space Administration (NASA), USA-AERONET
- National Aeronautics and Space Administration (NASA), USA-PANDORA Network
- Dalhousie University, Canada/University of Washington, USA - SPARTAN Network
- Stockholm University, Sweden
- Duke University, USA
- Wisconsin University, USA
- University of Surrey, UK

- Academia Sinica, Taiwan
- University of Bristol, UK.
- Shibaura Institute of Technology, Japan.

REVIEWER OF THE INTERNATIONAL JOURNALS

- Nature
- Environmental Science and Technology
- Atmospheric Environment
- International Journal of Environmental Analytical Chemistry
- Atmospheric Research
- Journal of Biotechnology
- Scientific Reports, Nature publishing group
- Air Quality, Atmospheric and Health
- Environmental Processes
- International Journal of Ambient Energy

COUNTRY VISITED

Austria, Canada, China, Germany, Hungary, Hong Kong, India, Italy, Japan, Malaysia, Maldives, Mexico, Nepal, Saudi Arabia, South Korea, Spain, Sweden, Taiwan, Thailand, United Kingdom, United States of America, Vietnam.

RESEARCH ARTICLES (Publish in double blind peer reviewed international journals)

1. Benjamin de Foy, Ross Edwards, Khaled Shaifullah Joy, Shahid Uz Zaman, Abdus Salam and James Schauer: Interpretable Machine Learning Tools to Analyze PM2.5 Sensor Network Data so as to Quantify Local Source Impacts and Long-Range Transport, *Atmospheric Research*, Elsevier, September 2024.
2. Razia Sultana Ankhy, Shatabdi Roy, Aynun Nahar, Ahedu Akbor, Al-amin Hossain, Farah Jeba, Md. Saiful Islam, Mohammad Moniruzzaman, Abdus Salam. Optical Characteristics of Brown Carbon in the Atmospheric Particulate Matter of Dhaka, Bangladesh: Analysis of Solvent Effects and Chromophore Identification. *Heliyon*, August 2024.
3. Md. Zubayer Islam, Shahid Uz Zaman, Nafis Ibtida Sami, Shatabdi Roy, Farah Jeba, Md. Safiqul Islam and Abdus Salam: Human inhalation exposure assessment of the airborne microplastics from indoor deposited dusts during winter in Dhaka, Bangladesh, *Heliyon*, 10, 2024.
4. Khaled Shaifullah Joy, Shahid Uz Zaman, Md. Riad Sarkar Pavel, Md. Safiqul Islam and Abdus Salam: Spatio-temporal variation of aerosol optical depth and black carbon mass concentration over five airports across Bangladesh: emphasis on effect of COVID-19 lockdown, *Asian Journal of Atmospheric Environment*, vol.18, no.14 Springer, pp.1-14, 2024.
5. Md. Asif Iqbal Nayeem, Shatabdi Roy, Shahid Uz Zaman and Abdus Salam : Particulate Matter Emissions at Different Microenvironments Using Low-Cost Sensors in Megacity Dhaka, Bangladesh, *Atmosphere*, vol.15, no.897 MDPI, pp.1-12, 2024.
6. Krishnakant Budhavant, Mohanan Remani Manoj, Samuel Mwaniki Gaita, Henry Holmstrand, Abdus Salam, Ahmed Muslim, Sreedharan K. Satheesh and Orjan Gustafsson : Changing optical properties of Black Carbon and Brown Carbon aerosols during long-range transport from the Indo-Gangetic Plain to the equatorial Indian Ocean, *Atmospheric Chemistry and Physics*, accepted, 2024 .
7. Shaikh Sharif Hasan, Abdus Salam, Mohammad Moniruzzaman, Aynul Bari, Nirupam Aich, Farjana Jahan, Mahbubur Rahman, Zubayer Islam, Md. Humayun Kabir, Md. Aftab Ali Shaikh, Rubhana Raqib and Sarker Masud Parvez: Understanding the occurrence and fate of atmospheric microplastics and their potential risks to human health: A study protocol for cross-sectional analysis, *JMIR Research Protocols* Accepted, 2024.

8. Md.Tarequl Islam, Shatabdi Roy, Samiha Nahian, Shahid Uz Zaman and Abdus Salam : Microplastics in the Atmospheric Deposited Dust Collected from Different Traffic Intersections in Dhaka City, The Dhaka University Journal of Science , vol.72 , no.2 Dhaka University, pp.7-15 , 2024 .
9. Samiha Nahian, Shatabdi Roy, Tasrina Rabia Choudhury, Bilkis Ara Begum and Abdus Salam: Indoor particulate matter exposure and correlation of PM_{2.5} with lung efficacy and SpO₂ level of Dhaka City Dwellers, Air Quality Atmosphere & Health, Springer, Singapor. <https://doi.org/10.1007/s11869-024-01586-3> , 2024 .
- 10.Md. Asif Iqbal Nayeem, Shatabdi Roy, Shahid Uz Zaman and Abdus Salam: Particulate Matter Emissions at Different Microenvironments Using Low-Cost Sensors in Megacity Dhaka, Bangladesh, Atmosphere, 15 (897) MDPI, 1-12, 2024 .
- 11.Mohd Talib Latif, Noorain Purhanudin, Nur Zulaikha Mohd Afandi, Maria Obiminda L. Cambaliza, Nor Diana Abdul Halim, Nor Syamimi Sufiera Limi Hawari, To Thi Hien, Ohnmar May Tin Hlaing, Warnakulasuriya Roshani Loreta Hiranthi Jansz, Muhammad Fahim Khokhar, Puji Lestari, Shih-Chun Candice Lung, Manish Naja, Nguyen Thi Kim Oanh, Murnira Othman, Abdus Salam, Pauziyah Mohammad Salim, Chang-Keun Song, Tamaki Fujinawa, Hiroshi Tanimoto and James H. Crawford : In-depth analysis of ambient air pollution changes due to the COVID-19 pandemic in the Asian Monsoon region, Science of the Total Environment (impact factor:9.8) Elsevier , pp.173145 , 2024 .
- 12.A.T.M. Mustafa Kamal, Md. Safiqul Islam, Shahid Uz Zaman, Md. Jalil Miah, Tanvir Ahmed, Sirajul Hoque and Abdus Salam: Quantification and source apportionment of atmospheric trace gases over Dhaka, Bangladesh, Journal of Atmospheric Chemistry (impact factor:2.0) , vol.81 , no.4 Springer Nature , 2024 .
- 13.Mohd Talib Latif, Nor Syamimi Sufiera Limi Hawari, Murnira Othman, Nor Diana Abdul Halim, Maria Obiminda L. Cambaliza, To Thi Hien, Ohnmar May Tin Hlaing, Warnakulasuriya Roshani Loreta Hiranthi Jansz, Muhammad Fahim Khokhar, Puji Lestari, Shih-Chun Candice Lung, Manish Naja, Nguyen Thi Kim Oanh, Abdus Salam, Chang-Keun Song, Hiroshi Tanimoto, Liya E. Yu and James H. Crawford : Impacts of the COVID-19 pandemic on air quality of the Monsoon Asia region: Cross-country assessment and facilitating policy, APN Science Bulletin , 2024 .
- 14.Xuan Liu, Jay R. Turner, Christopher R. Oxford, Jacob McNeill, Brenna Walsh, Emmie Le Roy, Crystal L. Weagle, Emily Stone, Haihui Zhu, Wenyu Liu, Zilin Wei, Nicole P. Hyslop, Jason Giacomo, Ann M. Dillner, Abdus Salam, Al-amin Hossen, Zubayer Islam, Ihab Abboud, Clement Akoshile, Omar Amador-Muñoz, Nguyen Xuan Anh, Araya Asfaw, Rajasekhar Balasubramanian, Rachel Ying-Wen Chang, Craig Coburn, Sagnik Dey, David J. Diner, Jinlu Dong, Tareq Farrah, Paterne Gahungu, Rebecca M. Garland, Michel Grutter de la Mora, Sina Hasheminassab, Juanette John, Jhoon Kim, Jong Sung Kim, Kristy Langerman, Pei-Chen Lee, Puji Lestari, Yang Liu, Tesfaye Mamo, Mathieu Martins, Olga L. Mayol-Bracero, Mogesh Naidoo, Sang Seo Park, Yoav Schechner, Robyn Schofield, Sachchida N. Tripathi, Eli Windwer, Ming-Tsang Wu, Qiang Zhang, Michael Brauer, Yinon Rudich and Randall V. Martin : Elemental Characterisation of Ambient Particulate Matter for a Globally Distributed Monitoring Network: Methodology and Implications, Environmental Science and Technology - Air American Chemical Society , 2024.
- 15.K Azam, SU Zaman, MS Islam, MZ Uddin and A Salam: Roadside Automobile Stressed Plants as Bioindicator Based on Air Pollution Tolerance Index in Dhaka, Bangladesh, Journal of Biodiversity Conservation and Bioresource Management (impact factor:0.8) , vol.9 , no.2 , pp.1-10 , 2023 .
- 16.Md. Alamin Hossain, Shahid Uz Zaman, Shatabdi Roy, Md. Safqul Islam, Ismat Zerine and Abdus Salam: Emission of particulate and gaseous air pollutants from municipal solid waste in Dhaka City, Bangladesh, Journal of Material Cycles and Waste Management (impact factor:3.10) Springer, 2023

17. Clare Paton-Walsh, R Subramanian, Jim H Crawford, Laura Dawidowski, H Langley DeWitt, Lisa Emberson, Louisa Emmons, Rebecca M Garland, Yugo Kanaya, Aderiana Mbandi, Kerri A Pratt, Nestor Y Rojas, Abdus Salam, Kateřina Šindelářová, Vinayak Sinha, N'Datchoh Evelyne Touré, Liya E Yu and Mei Zheng: The International Global Atmospheric Chemistry project comments on the revised WHO air quality guidelines, *Environmental Research Letters*, IOP Science, 2023
18. Alamin Hossen, Shatabdi Roy, Shahid Uz Zaman and Abdus Salam: Emission of Water-Soluble Brown Carbon from Different Combustion Sources: Optical Properties and Functional Group Characterization, *Environmental Research Communications*, IOP Science, 2023.
19. Afrin Sultana Ijee, Abdus Salam and Ashfaque Ahmed: Phenology of Some Selected Flowering Plants of Dhaka University Campus in Relation to Climatic Variables, *Bangladesh Journal of Botany*, 52(1), Bangladesh Botanical Society, 141-148, 2023.
20. Md Zakaria Islam, Shahid Uz Zaman, Shatabdi Roy, Md. Safiqul Islam and Abdus Salam : Elemental composition and biomarker determination from the combustion of coal samples from brick kilns in Dhaka, Bangladesh, *Journal of the Bangladesh Chemical Society* , vol.34 , no.2 Bangladesh Chemical Society , pp.207-211 , 2023 .
21. Shatabdi Roy, Shahid Uz Zaman, Khaled Shaifullah Joy, Farah Jeba, Prashant Kumar and Abdus Salam: Impact of fine particulate matter and toxic gases on the health of school children in Dhaka, Bangladesh, *Environmental Research Communications*, IOP Publishing Ltd., 2023.
22. Md Riad Sarkar Pavel, Shahid Uz Zaman, Sabuz Paul, Piasha Zaman and Abdus Salam: Light Absorption Properties of Black Carbon and Brown Carbon Emitted from Biomass Combustion at the typical Rural Cooking Stoves in Bangladesh, *Air Quality, Atmosphere & Health*, Springer, 2023.
23. Muhammad Fahim Khokhar, M. Shehzaib Anjum, Abdus Salam, Vinayak Sinha, Manish Naja, Kirpa Ram, Hiroshi Tanimoto, James H Crawford and M. Iqbal Mead: Recurring South Asian Smog Episodes: Call for Regional Cooperation and Improved Monitoring, *Atmospheric Environment*, Elsevier, 2022.
24. Tariq Mehmood, Licheng Peng, Abdus Salam, Jai Prakash, Ishaq Ahmed and Gajendra Kumar Gaurav: Neglected Microplastic Pollution in South Asia Reflects a Wider Failure, *Ecological Informatics*, vol.73 Elsevier, 101949, 2022.
25. Snigdha Aziz, Md Safiqul Islam, Nazrul Islam, Khaled Shaifullah Joy, Farah Jeba, A.T.M. Mustafa Kamal and Abdus Salam: Atmospheric poly-aromatic hydrocarbons in the fertilizer industries of Bangladesh, *Journal of the Bangladesh Chemical Society*, 33, 2, *Journal of Bangladesh Chemical Society*, 73–77, 2022.
26. Prashant Kumar, Sarkawt Hama, et al Abdus Salam and Shiva Nagendra SM: CO₂ exposure, ventilation, thermal comfort and health risks in kitchens of twelve global cities, *Journal of Building Engineering* (impact factor:7.1444). <https://doi.org/10.1016/j.job.2022.105254>.
27. Mohammed Ullah, Md Safiqul Islam, Fatema Akter, Mohammed Shohel, M. Rokonujjaman, Abdus Salam. Chemical composition and source apportionment of rainwater over Bangladesh during the monsoon. *Int. J. Environ. Sci. Technol.* (2022). <https://doi.org/10.1007/s13762-022-04507-y>
28. M N I Nahin, S Nahian, M S Islam, S Roy, F Jeba, Abdus Salam. Estimation and Health Risk Assessment of Respirable Silica in the Ambient Particulate Matter of Dhaka City, *Dhaka Univ. J. Sci.* 70(2): 1-7, 2022 (July), DOI: <https://doi.org/10.3329/dujs.v70i1.60374>.
29. Snigdha Aziz, Md Safiqul Islam, Nazrul Islam, Khaled Shaifullah Joy, Farah Jeba, A.T.M. Mustafa Kamal and Abdus Salam: Atmospheric poly-aromatic hydrocarbons in the fertilizer industries of Bangladesh, *Journal of the Bangladesh Chemical Society*, vol.33, no. 2, pp.73–77, 2022.
30. Razia Sultana Ankhy, Shama J. Proma, Nazmul Ahsan, Farah Jeba, Md Saiful Islam, and Abdus Salam. (2022). Multi-Drugs Resistant Bacteria Associated Particulate Matter in the Ambient

- Atmosphere of Dhaka, Bangladesh. *Journal of Biodiversity Conservation and Bioresource Management*, 7(2), 1–12. <https://doi.org/10.3329/jbcbm.v7i2.60145>
31. Hiroto Kawashima, Otoh Yoshida, Khaled Shaifullah Joy, Rasel Ahammed Raju, Kazi Naimul Islam, Farah Jeba and Abdus Salam, Sources identification of ammonium in PM_{2.5} during monsoon season in Dhaka, Bangladesh, *Science of the Total Environment*, 838(3), 156433, 2022.
 32. Shahid Uz Zaman, Md. Riad Sarkar Pavel, Rumana Islam Rani, Farah Jeba, Md. Safiqul Islam, Md Firoz Khan, Ross Edwards and Abdus Salam, Aerosol climatology characterization over Bangladesh using ground-based and remotely sensed satellite measurements, *Elementa: Science of the Anthropocene*, 10(1), 000063, 2022.
 33. Md Robiul Islam, Josie Welker, Abdus Salam and Elizabeth Stone, Plastic burning impacts on atmospheric fine particulate matter at urban and rural sites in the United States and Bangladesh, *ACS Environmental Au*, 2022. 2, 5, 409–417, <https://doi.org/10.1021/acsenvironau.1c00054>
 34. Kamrun Nahar, Samiha Nahian, Farah Jeba, Md Safiqul Islam, Md. Safiur Rahman, Tasrina R Choudhury, Konica J. Fatema and Abdus Salam, Characterization and Source Discovery of Wintertime Fog in Coastal Island, Bangladesh, *Atmosphere*, 13(3), 497, 2022.
 35. Prashant Kumar, Hama S, Abbass, R A, Nogueira T, Brand V S, Wu, H W, Abulude F., Adelodun A A, Anand P, de Fatima Andrade M, Apondo W, Asfaw A, Aziz K H, Cao S J, El-Gendy A, Indu G, Kehbila A G, Ketzell M, Khare M, Kota S H, Mamo T, Manyozo S, Martinez J, McNabola A, Morawska L, Mustafa F, Muula A S, Shamia Nahian, Nardocci A C, Nelson W, Ngowi A V, Njoroge G, Olaya Y, Omer K, Osanoh P, Md Riad Sarkar Pavel, Abdus Salam, Santos E L C, Sitati C and S M S Nagendra : In-kitchen aerosol exposure in twelve cities across the globe, *Environment International*, 162, 107155, 2022.
 36. Shih-Chun Candice Lung, To Thi Hien, Maria Obiminda L. Cambaliza, Ohnmar May Tin Hlaing, Nguyen Thi Kim Oanh, Mohd Talib Latif, Puji Lestari, Abdus Salam, Shih-Yu Lee, Wen-Cheng Vincent Wang, Ming-Chien Mark Tsou, Tran Cong-Thanh, Melliza Templonuevo Cruz, Kraichat Tantrakarnapa, Murnira Othman, Shatabdi Roy, Tran Ngoc Dang and Dwi Agustian : Research Priorities of Applying Low-Cost PM_{2.5} Sensors in Southeast Asian Countries, *International Journal of Environmental Research and Public Health*, 19, 522, 2022 .
 37. Yanqing Xie, Zhengqiang Li, Jie Guang, Weizhen Hou, Abdus Salam, Zahir Ali and Li Fang, Aerosol Optical Depth Retrieval over South Asia Using FY-4A/AGRI Data, *IEEE Transactions on Geoscience and Remote Sensing*, 60, 2021.
 38. Farzana Runa, Md. Safiqul Islam, Farah Jeba and Abdus Salam, Light Absorption Properties of Brown Carbon from Biomass Burning Emission, *Environmental Science and Pollution Research*, 29, 21012-21022, 2021.
 39. M F Khokhar, M S Anjum, Abdus Salam, V Sinha, M Naja, H Tanimoto, J H Crawford and M I Mead, Countries of the Indo-Gangetic Plain must unite against air pollution, *Nature*, 598, 415, 2021.
 40. Abdus Salam, August Andersson, Farah Jeba, Md. Imdadul. Haque, Md Dulal Hossain Khan and Örjan Gustafsson. Wintertime Air Quality in Megacity Dhaka Bangladesh Strongly Affected by Influx of Black Carbon Aerosols from Regional Biomass Burning, *Environmental Science & Technology*, 55(18), 12243-12249, 2021.
 41. Benjamin de Foy, Md. Golam Saroar, Abdus Salam and James Schauer: Distinguishing air pollution due to stagnation, local emissions and long-range transport using a generalized additive model to analyze hourly monitoring data, *Earth and Space Chemistry*, 5(9), 2329-2340, 2021.
 42. Nur Norazman, Md Firoz Khan, Sharanya Ramanathan, Syazwani Mustapa Kama Shah, Siti Mohd Jani, Khaled Saifullah Joy, Kazi Naymul Islam, Farah Jeba, Abdus Salam, Otoh Yoshida and Hiroto Kawashima: Influence of Monsoonal Driving Factors on Secondary Inorganic Aerosol Over Ambient Air in Dhaka, *Earth and Space Chemistry*, 5(9), 2517-2533, 2021.
 43. Shahid Uz Zaman, Md. Riad Sarkar Pavel, Khaled Shaifullah Joy, Farah Jeba, Md. Safiqul Islam, Sanchita Paul, Md. Aynul Bari and Abdus Salam, Spatial and Temporal variation of Aerosol

- Optical Depths over Six Major Cities in Bangladesh, *Atmospheric Research*, 262 (105803), 2021.
44. Khadija Jahan, Farah Jeba, Md. Safiqul Islam and Abdus Salam, Levoglucosan Emission from Different Indigenous and Exotic Plant Species in Bangladesh, *Journal of Biodiversity, Conservation and Bioresource Management*, 6(2), 2021.
45. Md Riad Sarkar Pavel, Maliyat Tarannum, Shahid Uz Zaman, Farah Jeba and Abdus Salam, Health Risk Assessment of High-Level Particulate Matter Exposure in Different Environments in Mega City Dhaka, Bangladesh, *Bangladesh Journal of Scientific Research*, 31-33 (2), 78-87, 2021.
46. M. Safiur Rahman, Prashant Kumar, Mohammad Ullah, Yeasmin N. Jolly, Shirin Akhter, Jamiul Kabir, Bilkis A. Begum, and Abdus Salam, Elemental analysis in surface soil and dust of roadside academic institutions in Dhaka city, Bangladesh and their impact on human health, *Environmental Chemistry and Ecotoxicology*, 3, 197-208, 2021.
47. Prashant Kumar, Sarkawt Hama, Rana Alaa Abbass, Thiago Nogueira, Veronika S. Brand, KV Abhijith, Maria de Fatima Andrade, Araya Asfaw, Kosar Hama Aziz, Shi-Jie Cao, Ahmed El-Gendy, Mukesh Khare, Adamson S. Muula, S.M. Shiva Nagendra, Aiwerasia Vera Ngowi, Khalid Omer, Yris Olaya and Abdus Salam, Potential health risks due to in-car aerosol exposure across ten global cities, *Environment International*, 155, 2021.
48. Md Riad Sarkar Pavel, Shahid Uz Zaman, Farah Jeba, Md Safiqul Islam and Abdus Salam, Long-Term (2003-2019) Air Quality, Climate Variables, and Human Health Consequences in Dhaka, Bangladesh, *Frontiers in Sustainable Cities*, 2021.
49. Md Riad Sarkar Pavel, Shahid Uz Zaman, Farah Jeba and Abdus Salam, Long Term (2011-2019) trends of O₃, NO₂, and HCHO and Sensitivity Analysis of O₃ Chemistry over GBM (Ganges-Brahmaputra-Meghna) Delta: Spatial and Temporal Variabilities, *ACS Earth and Space Chemistry*, 5 (6), 1468-1465, 2021.
50. Farah Jeba, Tanzina Tul Karim, Md. Firoz Khan, Mohd. Talib Latif, Kazi Fahad Quddus and Abdus Salam, Receptor Modelling and Risk Factors of Polycyclic Aromatic Hydrocarbons (PAHs) in Atmospheric Particulate Matter at an IGP Outflow location (Island of the Bay of Bengal -Bhola, Bangladesh), *Air Quality, Atmosphere & Health*, 2021.
51. Shahid Uz Zaman, Mahbuba Yesmin, Md Riad Sarkar Pavel, Farah Jeba and Abdus Salam, Indoor Air Quality Indicators and Toxicity Potential at the Hospitals Environment in Dhaka, Bangladesh, *Environmental Science and Pollution Research*, 28, 37727–37740, 2021
52. Sadia Alam Shammi, Abdus Salam and Md Akhter Hossain Khan, Assessment of heavy metal pollution in the agricultural soils, plants, and in the atmospheric particulate matter of a suburban industrial region in Dhaka, Bangladesh, *Environmental Monitoring Assessment*, 193, 104, 2021.
53. Hiroshi Tanimoto, Nguyen Thi Kim Oanh, Manish Naja, Shih-Chun Candice Lung, Mohd Talib Latif, Liya Yu, Abdus Salam, Maria Obiminda Cambaliza, To Thi Hien, Ohnmar May Tin Hlaing, Puji Lestari, Hiranthi Janz, Muhammad Fahim Khokhar, Bhupesh Adhikary, Melita Keywood, Tao Wang, Jim Crawford, Mark Lawrence and Megan Melamed: Atmospheric chemistry research in Monsoon Asia and Oceania: Current status and future prospects, *APN Science Bulletin*, 10 (1), 2020.
54. J McNeill, G Snider, C L Weagle, B Walsh, P Bissonnette, E Stone, I Abboud, C Akoshile, N X Anh, R Balasubramanian, J R Brook, C Coburn, A Cohen, J Dong, G Gagnon, R M Garland, Kebin He, B N Holben, R Kahn, J S Kim, N Lagrosas, P Lestari, Y Liu, F Jeba, K Shaifullah Joy, J V Martins, A Misra, L K Norford, E J Quel, A Salam, B Schichtel, S N Tripathi, C Wang, Q Zhang, M Brauer, M D Gibson, Y Rudich and R V Martin: Large Global Variations in Measured Airborne Metal Concentrations Driven by Anthropogenic Sources, *Scientific Reports*, 10, 21817, 2020
55. MS Ahmed, M Yesmin, F Jeba, MS Hoque, AR Jamee, and A Salam (2020). Risk Assessment and Evaluation of Heavy Metals Concentrations in Blood Samples of the Plastic Industry Workers in Dhaka, Bangladesh, *Toxicology Reports*, 7, 1373-1380.

56. MRS Pavel, A Salam, M Yesmin, N Ahsan, S Zaman, and F Jeba (2020). Impact and Correlation of Air Quality and Climate Variables with COVID-19 Morbidity and Mortality in Dhaka, Bangladesh, medRxiv.
57. S Dasari, A Andersson, A Stohl, N Evangeliou, S Bikkina, H Holmstrand, K Budhavant, A Salam, and Ö Gustafsson (2020). Source quantification of South Asian black carbon aerosols with isotopes and modeling, *Environmental Science and Technology*, 19, 11771–11779.
58. P. Kumar, S. Hama, T. Nogueira, R A Abbass, VS Brand, M deF Andrade, A Asfaw, KH Aziz, S-J Cao, A El-Gendy, S Islam, F Jeba, M Khare, SH Mamuya, J Martinez, M-R Meng, L Morawska, AS Muula, S Nagendra, AV Ngowi, K Omer, Y Olaya, P Osano, and A Salam (2020). In-car particulate matter exposure across ten global cities, *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2020.141395>.
59. H E Sadia, F Jeba, A T M M Kamal and A Salam (2019). Air pollution tolerance index of *Mangifera Indica* plant species growing in the greater Dhaka region, Bangladesh. *Journal of Biodiversity, Conservation and Bio-resource Management*, 1: 5.
60. H E Sadia, Jeba F, Uddin, MZ and A Salam (2019). Sensitivity study of plant species due to traffic emitted air pollutants (NO₂ and PM_{2.5}) during different seasons in Dhaka, Bangladesh, *Springer Nature Applied Science*, 1, 1377-1386.
61. Dasari, S, A Andersson, S Bikkina, H Holmstrand, K Budhavant, J Backman, J Kesti, E Asmi, A Salam, DS Bisht, S Tiwari, A Zahid, Ö Gustafsson (2019). Photochemical degradation of Brown Carbon aerosols using isotope forensics in the South Asian outflow. *Science Advances*, 5(1), DOI: 10.1126/sciadv.aau8066.
62. Sarkar, S. K. T. Miyaji, T., Sasaki, J.-I., Biswas, S.N., Ali, S. and Salam, A. (2020). Fatty acid composition, Physico-chemical and anti-oxidant properties of almond seed (*Terminalia Catappia* L) oil and its therapeutic uses, *Journal of Global Biosciences* (accepted May 19), 2020.
63. Rahman MS, M Dulal H Khan, YN Jolly, J Kabir, S Akter, A Salam (2019). Assessing risk to human health for heavy metal contamination through street dust in the Southeast Asian Megacity: Dhaka, Bangladesh. *Science of the Total Environment*. doi.org/10.1016/j.scitotenv.2018.12.425.
64. Akther T, M Ahmed, M Shohel, FK Ferdous, A Salam (2019). Particulate Matters and Gaseous Pollutants in Indoor Environment and Association of Ultra-fine Particulate Matters (PM_{1.0}) with Lung Function. *Environmental Science and Pollution Research*. doi.org/10.1007/s11356-018-4043-2.
65. W Crystal, S Graydon, Li Chi, van D Aaron, P Sajeev, B Paul, B Jaqueline, J John, L Robyn, S Emily, A Ihab, A Clement, A N Xuan, B Jeffrey, C Aaron, D Jinlu, G Mark, G Derek, He KB, H Brent, K Ralph, K Christoph, K J Sung, L Nofel, L Puji, L Khian, Y L Yang, M Eloise, M J, M Amit, M Ulfi, P Rizki, Q Eduardo, Salam A, S Lior, T Sachchida, W Chien, Z Qiang, B Michael, R Yinon, M Randall (2018). Global Sources of Fine Particulate Matter: Interpretation of PM_{2.5} Chemical Composition Observed by SPARTAN using a Global Chemical Transport Model. *Environmental Science & Technology*, DOI: 10.1021/acs.est.8b01658.
66. M Ahmed, M Das, T Afser, M Rokonujjaman, T Akther, A Salam (2018). Emission of Carbonaceous Species from Biomass Burning in the Traditional Rural Cooking Stove in Bangladesh. *O J. of Air Pollution*, 7(4).
67. R Aktar, M Ahmed, M Shohel, A Salam (2018). Chemical Composition and Source Characterization of Hailstones in Dhaka, Bangladesh. *Journal of Geoscience and Environment Protection (GEP)*, 6, 71-82.
68. M Ahmed, A Hossain, T Akther, M Shohel, A Salam (2018). Chemical Composition and Source Identification of Fog Water at an Indo-Gangetic Plain (IGP) outflow location (Coastal Bhola Island), Bangladesh. *Journal of Environmental Pollution and Management (JEPM)*, 1:104.

69. MI Haque, K Nahar, MH Kabir, A Salam (2018). Particulate black carbon and gaseous emission from brick kilns in Greater Dhaka region, Bangladesh. *Air Quality, Atmosphere & Health*, 11(8), 925-935, doi.org/10.1007/s11869-018-0596-y.
70. M Shohel, M Kistler, MA Rahman, A Kasper-Giebl, JS Reid, A Salam (2018). Chemical characterization of PM_{2.5} collected from a rural coastal island of the Bay of Bengal (Bhola, Bangladesh). *Environmental Science and Pollution Research*, doi.org/10.1007/s11356-017-0695-6.
71. M Shohel, HA Simul, E Reid, JS. Reid, A Salam (2017). Dew Water Chemical Composition and Source Characterization in the IGP Outflow Location (Coastal Bhola, Bangladesh). *Air Quality, Atmosphere and Health*, 10 (8), 981-990, doi.org/10.1007/s11869-017-0487-7.
72. Snider G, Weagle CL, Murdymootoo KK, Ring A, Ritchie Y, Stone E, Walsh A, Akoshile C, Anh N X, Balasubramanian R, Brook J, Qonitan FD, Dong J, Griffith D, He K, Holben BN, Kahn R, Lagrosas N, Lestari P, Ma Z, Misra A, Norford LK, Quel EJ, A Salam, Schichtel B, Segev L, Tripathi S, Wang C, Yu C, Zhang Q, Zhang Y, Brauer M, Cohen A, Gibson MD, Liu Y, Martins JV, Rudich Y, Martin RV (2016). Variation in global chemical composition of PM_{2.5}: emerging results from SPARTAN, *Atmosphere Chemistry and Physics*, 16, 9629-9653.
73. S Sultana, AKMNA Siddiki, M Rokonujjaman, MN Naser, MA Salam, A Salam (2016). Heavy metals accumulation in freshwater mussels (*Lamellidens marginalis*) as a biological monitor inhabiting in Dhanmondi Lake, Dhaka, Bangladesh. *International Journal of Bioassays*, 5 (10), 4933-4938.
74. SA Shammi, A Salam, MAH Khan (2016). Enrichment of Nutrient Status of Water -Soil Systems Caused by Industrial Effluents. Governance and Development, Changing Dynamics and Shifting Agendas. Osder Publications, Dhaka, Bangladesh (ISBN: 978 -984-92653-1-3).
75. S A Shammi, A Salam, AH Khan (2016). Assessment of Metal Contamination in Water of Bangshi River. *Bangladesh Journal of Soil Science*, 38(1):27-35.
76. S Akter, A Salam, AH Khan (2015). Efficiency of natural bio-adsorbents to remove heavy metal ions from artificially contaminated water. *Bangladesh Journal of Soil Science*, 37(1): 57-63.
77. A Salam, M Assaduzzaman, M N Hossain, A.K.MNA Siddiki. (2015). Water Soluble Ionic Species in the Atmospheric Fine Particulate Matters (PM_{2.5}) in a Southeast Asian Mega City (Dhaka, Bangladesh). *O. Journal of Air Pollution*, 4(3), 99-108.
78. MF Islam, Majumder SS, Al Mamun A, KMB Rahman, A Salam (2015). Trace Metals Concentrations at the Atmosphere Particulate Matters in the Southeast Asian Mega City (Dhaka, Bangladesh). *O. Journal of Air Pollution*, 86-98.
79. MA Rahman, S Kamal, A Salam, MA Salam (2015). Assessment of the quality of the poultry feed and its effect in poultry products in Bangladesh. *Journal of Bangladesh Chemical Society*, 27(1&2), 120-131.
80. Snider G, Weagle CL, Martin RV, van Donkelaar A, Conrad K, Cunningham D, Gordon C, Zwicker M, Akoshile C, Artaxo P, Anh N X, Brook J, Dong J, Garland, RM, Greenwald R, Griffith D, He K, Holben BN, Kahn R, Koren I, Lagrosas N, Lestari P, Ma Z, Martins VJ, Que EJ, Rudich Y, Salam A, Tripathi SN, Yu C, Zhang Q, Zhang Y, Brauer M, Cohen A, Gibson MD, Liu Y (2015). SPARTAN: a global network to evaluate and enhance satellite-based estimates of ground-level particulate matter for global health applications, *Atmospheric Measurements Technology*, 8, 505-52. Doi.org/10.5194/amt-8-505-2015.
81. A Salam, M Hasan, BA Begum, SK Biswas (2013). Chemical Characterization of Biomass Burning Emissions at the Cooking Stoves in Bangladesh. *Biomass and Bioenergy*, 52,122-130.
82. A Salam, MB Ullah, MD Islam, MA Salam, SM Ullah (2013). Carbonaceous species in total suspended particulate matters at different urban and suburban locations in the Greater Dhaka region, Bangladesh. *Air Quality, Atmosphere and Health*, Springer Ltd., 6(1), 239-245. doi.org/10.1007/s11869-011-0166-z.

83. F Khan, MA Salam, MA Rahman, A Salam, A. M. Shafiqul Alam and Amjad Hossain (2012). Interaction of 1-pyrrolidine Carbodithioic Acid with Cu(II), Ni(II) and Co(II) Ions. *Bangladesh Pharmaceutical Journal*, 15(1), 23-29.
84. AKMNA Siddiki, MS Rahman, MA Rahman, MA Salam, A Salam, MA Yousuf, MF Islam, MA Arafat. Synthesis and Antimicrobial Studies of Copper (II) Metal Complexes that Specifically Recognize Nucleic Acid Bases. *Bangladesh Pharmaceutical Journal*, 2012, 15(1), 83-87.
85. MA Rahman, MA Hasan, MA Salam, A Salam, NA Siddique, AMS Alam. Betel-nut peel (BP) as an adsorbent in the removal of Ca, Cr and Pb from aqueous solutions. *P. Journal of Analytical & Environmental Chemistry*, 2012, 13(2), 137-147.
86. NJ Ara, MA Hasan, MA Rahman, MA Salam, A Salam, AMS Alam (2012). Removal of Remazol Red from Textile Wastewater using Treated Sawdust. *Bangladesh Pharmaceutical Journal*, 16(1): 93-98, 2013.
87. BA Begum, AKME Haque, MK Mahmud and A Salam (2012). Particulate matter pollution near the industrial area at Modonpur, Naryanganj, Bangladesh. *Bangladesh Journal of Physics*, 12, 27-38.
88. MA Rahman, MA Salam, A Salam, M Roy, AMS Alam (2012). Mineral content of different bottled water available in Bangladesh: Assessment of their compliance with current regulations. *Journal of the Asiatic Society of Bangladesh*, 38(1), 7-15.
89. A Salam, H Al-Mamoon MB Ullah, SM Ullah (2012). Measurement of the Atmospheric Aerosol Particle Size Distribution in a Highly Polluted Mega-City in Southeast Asia (Dhaka-Bangladesh). *Atmospheric Environment*, 59, 338-343.
90. K Roy, F Islam, BA Begum, A Salam, PK Hopke (2012). Source identification of carbonaceous aerosol during winter months in the Dhaka city. *Journal of Bangladesh Academy of Science*, 36(2), 241-250.
91. MA Salam, A Salam MA Yousuf, K Aoki (2011). Interligand Interactions Affecting Specific Metal Bonding to Nucleic Acid Bases: Synthesis and Structural Determination of the Complex [ni(NTA) (9-methyladeninium)(H₂O)].H₂O. *Journal of the Asiatic Society of Bangladesh*, 37(1), 67-73.
92. BA Begum, M Kamal, MA Salam, A Salam, MA Salam (2011). Assessment of Particulate Air Pollution at Kalabagan and Shisumela Area along the Mirpur Road, Dhaka. *Bangladesh Journal of Scientific and Industrial Research*, 46(3), 343-352.
93. A Salam, MA Salam. Levels of Trace Metals in Atmospheric Suspended Particulate Matters in Dhaka, Bangladesh. *Bangladesh Pharmaceutical Journal*, 2011, 14 (1), 21-26.
94. Al-Emran, A. Salam, Md. A. Salam (2009). Removal of Organic Dye with Different Low Cost Natural Bio-adsorbents from Artificially Contaminated Aqueous System. *The Dhaka University Journal of Science*, 58(1), 97-100.
95. M Hasan, A Salam, AMS Alam (2009). Identification and characterization of trace metals in black solid materials deposited from biomass burning at the cooking stoves in Bangladesh. *Biomass and Bioenergy*, Elsevier Ltd., 33: 1376-1380.
96. A Salam, G Lesins, U Lohmann (2008). Laboratory Studies of Heterogeneous Ice Nucleation in Deposition Mode of Montmorillonite Mineral Dust Particles Aged with Ammonia, Sulfur Dioxide, and Ozone Gases at polluted atmospheric conditions. *Air Quality, Atmosphere and Health*, Springer Netherlands, 1:135-142, doi.org/10.1007/s11869-008-0019-6.
97. A Salam, T Hossain, MNA Siddique, AMS Alam. Characteristics of Atmospheric Trace Gases, Particulate Matters, and Heavy Metal pollutions in Dhaka, Bangladesh. *Air Quality, Atmosphere and Health*, Springer Netherland, 2008, 2(1):101-109, doi.org/10.1007/s11869-008-0017-8.
98. TA Mahmud, MNA Siddique, A Salam, AMS Alam. Temporal Variation of Atmospheric Aerosol Particulate Matters and Heavy Metal Concentrations in Dhaka, Bangladesh. *Pakistan Journal of Analytical and Environmental Chemistry*, 2008, 9(1): 26-31.

99. A Salam, U Lohmann, G Lesins (2007). Ice Nucleation of Ammonia Gas Exposed Montmorillonite Mineral Dust Particles. *Atmospheric Chemistry and Physics*, 7, 3923-3931.
100. A Salam, U Lohmann, B Crenna, G Lesins, P Klages, D Rogers, R Irani, A MacGillivray, M Coffin (2006). Ice Nucleation Studies of Mineral Dust Particles with a New Continuous Flow Diffusion Chamber, Canada. *Aerosol Science and Technology*, 40, 134-143.
101. H Puxbaum, B Gomiscek, M Kalina, H Bauer, A Salam, S Stopper, O Preining, H Hauck. A dual site study of PM_{2.5} and PM₁₀ aerosol chemistry in the larger region of Vienna, Austria. *Atmospheric Environment*, 2004, 38(24), 3949-3958.
102. H Hauck et al., AUPHEP - Austrian Project on Health Effects of Particulates - General overview. *Atmospheric Environment*, 2004, 38(24), 3905-3915.
103. M. Alamgir, S. M. Ullah, A. S. Mollah and A. Salam (2004). Effect of K on Transfer of ¹³⁷Cs from soil to vegetable crops in Bangladesh. *The Dhaka University Journal of Biological Science*, 13(2), 203-210.
104. A Salam, H Bauer, K Kassin, SM Ullah, H Puxbaum. Aerosol chemical characteristics of a mega-city in Southeast Asia (Dhaka-Bangladesh). *Atmospheric Environment*, 2003, 37(18), 2517-2528.
105. A Salam, H Bauer, K Kassin, SM Ullah, H Puxbaum. Aerosol chemical characteristics of an island site in the Bay of Bengal (Bhola-Bangladesh). *Journal of Environmental Monitoring*, 2003, 5(3), 483-490.
106. AJ Mahmood, A Salam, MM Islam (2003). Adsorption of metal ions on an algal biomass (*Oedogonium Sp.*). II. Effect of pH on the adsorption of Fe (III), Zn (II), Cd (II) and Hg (II) ions. *The Dhaka University Journal of Science*, 51(2), 197-200.
107. AJ. Mahmood, A. Salam, M. M. Islam (2002). Adsorption of metal ions on an algal biomass (*Oedogonium Sp.*). I. Adsorption characteristics of some metal ions. *The Dhaka University Journal of Science*, 50(2), 173-175.

CONFERENCE ABSTRACT/PROCEEDINGS

1. S. Nahian, N. Tabassum, M. Moniruzzaman, **A Salam**. Chemical Characterization and Source Apportionment of Water- soluble Inorganic Ions (WSIIs) in Ambient PM_{2.5} in Dhaka, Bangladesh. 16th iCACGP Symposium and 18th IGAC Science Conference 2024, September 9-13, 2024, Kuala Lumpur, Malaysia.
2. S. U. Zaman, S. Roy, R. Omar, M. A. Al-Amin, B. de Foy, M. H. Bergin, P. Bhave, **A. Salam**. Quantifying Transboundary Air Pollution in Bangladesh: Seasonal Trends and Variations in PM_{2.5} Concentrations Using Low-cost Sensor Network. 16th iCACGP Symposium and 18th IGAC Science Conference 2024, September 9-13, 2024, Kuala Lumpur, Malaysia.
3. H. Helmig, P. Zaarrah, P. K. Saha, **A. Salam**, A. Bari. Coupling NASA satellite aerosol data with surface low-cost air sensor observations for mapping brick kiln particle emissions in and around the megacity of Dhaka, Bangladesh. 16th iCACGP Symposium and 18th IGAC Science Conference 2024, September 9-13, 2024, Kuala Lumpur, Malaysia.
4. Hiroto Kawashima, Rui Kato, Md Al-amin Hossen, Md. Zubayer Islam, Khaled Shaifullah Joy, Farah Jeba and Abdus Salam "Source identification of ammonium in PM_{2.5} by using nitrogen isotope ratio after COVID-19 in Dhaka, Bangladesh." *European Aerosol Conference (ID: 808)*, 2024.
5. Samiha Nahian, Farah Jeba, Tasrina Rabia Choudhury, Bilkis Ara Begum and Abdus Salam "Indoor PM_{2.5} Exposure, Source Contribution and Related Health Risks During Haze and Non- haze Episodes in Dhaka Cantonment, Bangladesh: A Comparative Study." *EGU 2024*, pp. Abstract EGU24-17. Vienna, Austria: EGU, 2024.
6. Shahid Uz Zaman and Abdus Salam "Quantifying Transboundary Air Pollution in Bangladesh using Low-Cost Sensors." , Abstract EGU24-311. Vienna, Austria: EGU 2024, 2024.

7. Md. Nazrul Islam, Shahid Uz Zaman, Md. Mufazzal Hossain and Abdus Salam "Source identification and health risk assessment of particle phase organic compounds in urban and rural areas of Bangladesh." *The 7th Environmental Technology and Management Conference (ETMC 2023)* , pp. 485 (06005). Bali, Indonesia: E3S Web of Conferences, 2024.
8. Md. Al-amin Hossen, Shahid Uz Zaman, Razia Sultana Ankhy, Md. Riad Sarkar Sarkar, Shatabdi Roy, Samiha Nahian and Abdus Salam "Light Absorption Characteristics of Brown Carbon and Black Carbon from Biomass Burning and Fossil Fuel Combustion in Dhaka." *OHOW 2023 – The 2nd International Symposium on One Health, One World Dhaka: MDPI, 2023* .
9. Abdus Salam "Overview of the Atmospheric Pollution in Bangladesh: Chemical Composition, Source Apportionment, and Impact Assessment." *OHOW 2023 – The 2nd International Symposium on One Health, One World Dhaka: MDPI, 2023* .
10. Shahid Uz Zaman, Khaled Shaifullah Joy, Shatabdi Roy, Md. Asif Iqbal Nayeem, Rabiul Islam, Farah Jeba, Prakash Bhawe, Michael H. Bergin, Ross Edwards, James J. Schauer, Robert Caldow and Abdus Salam "Air quality monitoring with TSI BlueSky sensors in the megacity Dhaka, Bangladesh." *2022 Air Sensors International Conference*, Pasadena, California, USA: 2022 .
11. Snigdha Aziz, Nazrul Islam, Farah Jeba, Md. Safiqul Islam and Abdus Salam "Polycyclic Aromatic Hydrocarbons (PAHs) in the Atmospheric Suspended Particulate Matter from Fertiliser Industries in Bangladesh." *2021 16th IGAC Science Conference Online: 2021*.
12. Razia Sultana Ankhy, Shamma Jabeen Proma, Nazmul Ahsan, Farah Jeba, Md. Safiqul Islam and Abdus Salam "Multi-drugs Resistant Bacteria Associated Particulate Matter in the Ambient Air over Dhaka, Bangladesh." *2021 16th IGAC Science Conference Held Virtually Globally: 2021*.
13. Asfay Raihan, Md. Safiqul Islam, Farah Jeba and Abdus Salam "Light Absorption Properties of Atmospheric Brown Carbon during Winter in Dhaka Bangladesh." *2021 16th IGAC Science Conference Held Virtually Globally: 2021*.
14. Abdus Salam et al 2021 "Environmental and Personal Exposure Monitoring with Low Cost Sensors and Associated Health Impact in Dhaka Bangladesh." *Sustainability Research & Innovation Congress 2021 Online and onsite in Brisbane, Australia: <https://attend.sri2021.org/>, June 12-15, 2021*.
15. Abdus Salam "Atmospheric Pollution in the Highly Polluted Megacity - Dhaka, Bangladesh: Causes, Impact and Solution." *International Conference on Science and Technology (ICSTB-2021)* , pp. 222. Dhaka: BCSIR, 2021.
16. Shahid Zaman, Mahbuba Yesmin, Md. Riad Sarkar Pavel, Farah Jeba and Abdus Salam "Indoor Air Quality Indicators and Toxicity Potential at the Hospitals' Environment in Dhaka, Bangladesh." *2021 16th IGAC Science Conference Held Virtually Globally: 2021*.
17. Samiha Nahian, Farah Jeba, Tasrina Choudhury, Bilkis Begum and Abdus Salam "Indoor Exposure of Particulate Matter and Association of PM_{2.5} with Lung Function and Oxygen Saturation Level of the Residents in Dhaka, Bangladesh." *2021 16th IGAC Science Conference Held Virtually Globally: 2021*.
18. Khaled Shaifullah Joy, Farah Jeba and Abdus Salam "Analysis of the effect of the COVID-19 lockdown on Aerosol Optical Properties over six major cities in Bangladesh." *2021 16th IGAC Science Conference Held Virtually Globally: 2021*
19. Asfay Raihan, Farah Jeba, Md Safiqul Islam and Abdus Salam "Brown carbon absorption coefficient and absorption angstrom exponent in the ambient atmosphere of Dhaka, Bangladesh." *ICSTB-2021*, pp. 184. Dhaka: BCSIR, 2021.
20. Snigdha Aziz, Nazrul Islam, Farah Jeba, Md Safiqul Islam and Abdus Salam "Polycyclic aromatic hydrocarbons (PAHs) in the atmospheric suspended particulate matter at the fertilizer industries in Bangladesh." *ICSTB-2021*, pp. 184. Dhaka: BCSIR, 2021.
21. Samiha Nahian, Farah Jeba, Bilkis Ara Begum, Tasrina Rabia Chowdhury and Abdus Salam "Indoor PM_{2.5} exposure and association with lung function and blood oxygen saturation

- of the inhabitants at several residential homes in Dhaka, Bangladesh." *ICSTB-2021*, pp. 291. Dhaka: BCSIR, 2021.
22. Khaled Shaifullah Joy, Md Tariqul Islam, Farah Jeba and Abdus Salam "Variation of aerosol optical depth and angstrom exponent in urban and rural areas of Bangladesh." *ICSTB-2021*, pp. 434. Dhaka: BCSIR, 2021.
 23. Razia Sultana Ankhy, Shamma Jabeen Proma, Nazmul Ahsan, Farah Jeba, Md. Safiqul Islam and Abdus Salam "Study of bioaerosol in the ambient atmosphere of Dhaka city, Bangladesh." *ICSTB-2021*, pp. 476. Dhaka: BCSIR, 2021.
 24. Akshansha Chauhan, Abdus Salam and Ramesh Singh "Decline in the Outflow of the Aerosol Loading during 2020 from Indian Continent over the Bay of Bengal (Bhola, Bangladesh) Associated with COVID-19 Lockdown." *AGU Fall meeting, December 1-17, 2020* Everywhere (Online): American Chemical Society, 2020.
 25. Shahid Uz Zaman Adil and Abdus Salam "Investigation of Gaseous (NO₂, TVOC, CO₂) Indoor and Outdoor Air Pollution and Health Impact on Different Schools in Dhaka City." *36th International Geological Congress*, pp. Abs No. 980, Theme 1: Symposium 1.11 Earth Science and Society. Delhi, India: 2-8 March, 2020.
 26. Ross Edwards, James. J. Schauer, Michael R. Olson, Abdus Salam, Abhijit Chatterjee, Md Riad Sarkar Pavel and Shahid Uz Zaman "Construction and evaluation of ruggedized moderate cost PM_{2.5} sensors for use in Dhaka, Bangladesh and Kolkata India." *Air Sensors International Conference (ASIC) 2020*.
 27. Abdus Salam "An Overview of Air Quality and Health Consequences in Bangladesh." *Northern India Air Pollution Meeting, August 23-24, 2020 (online)* Kanpur, India and Yokohama, Japan: 2020.
 28. Sanchoy chandra Biswasarma and Abdus Salam "Application of Fourier transform infrared (FTIR) spectrometer and UV Visible Spectrometer for determination of biomass burning tracer levoglucosan." *International Conference of Physics in Medicine (ICPM) Dhaka: 2020*.
 29. Shahid Uz Zaman, Shatabdi Roy, Farah Jeba and Abdus Salam "Investigation of Gaseous Air Pollutants (NO₂, CO₂, TVOC) and Health Impact in Different Schools in Dhaka City." *International Conference on Recent Advances on Chemistry (ICRAC-2020) Dhaka: 2020*.
 30. Rumana Islam Rani, Sadia E Halima, Farah Jeba and Abdus Salam "Emission of Particulate Matters and Sulphate in a Rural Area of Naogaon, Bangladesh (Both Indoor and Outdoor Environment)." *International Conference on Recent Advances in Chemistry Dhaka: 2020*.
 31. Sanchoy chandra Biswasarma and Abdus Salam "Application of Fourier transform infrared (FTIR) spectrometer and UV Visible Spectrometer for determination of biomass burning tracer levoglucosan." *International Conference of Physics in Medicine (ICPM) Dhaka: 2020*.
 32. Shahid Uz Zaman, Shatabdi Roy, Farah Jeba and Abdus Salam "Investigation of Gaseous Air Pollutants (NO₂, CO₂, TVOC) and Health Impact in Different Schools in Dhaka City." *International Conference on Recent Advances on Chemistry (ICRAC-2020) Dhaka: 2020*.
 33. Rumana Islam Rani, Sadia E Halima, Farah Jeba and Abdus Salam "Emission of Particulate Matters and Sulphate in a Rural Area of Nagaon, Bangladesh (Both Indoor and Outdoor Environment)." *International Conference on Recent Advances in Chemistry Dhaka: 2020*.
 34. Khaled Shaifullah Joy, Md Tariqul Islam, Farah Jeba and Abdus Salam "Characterization of Aerosol Optical Depth and Ångström Exponent in Urban and Rural Areas of Bangladesh." *IGAC-MANGO Meeting, Workshop and Training Course ARIES, Nainital, India: 2019*.
 35. Shahid Uz Zaman, Shatabdi Roy, Farah Jeba and Abdus Salam "Health Impact of Gaseous Air Pollutants (NO₂, TVOC, CO₂) from Different Schools (Indoor and Outdoor) in Dhaka City, Bangladesh." *IGAC-MANGO Meeting, Science Workshop and Training School Nainital, India: 2019*.
 36. Abdus Salam, Farah Jeba, M. Tarequl Islam, Kamrun Nahar, Tanzina Akther, Shatabdi Roy, Ronee C Gope and Halima-E-Sadia "Overview of the Atmospheric Pollution (Particulate

- matters, Rain and Fog) in Urban and Rural locations in Bangladesh: Characterization and Human Health Impact.." *Atmospheric Composition and Asian Monsoon (ACAM) Workshop* Kuala Lumpur, Malaysia: 2019.
37. Shatabdi Roy, Farah Jeba and Abdus Salam "Impact of fine particulate matters (PM1.0, PM2.5) and trace gases (NO₂, TVOC, CO₂) on the health (e.g. Lung Function) of School Children in Dhaka City, Bangladesh." *International Conference on Climate Change (ICCC-2019)* Dhaka, Bangladesh: 2019.
 38. Ö. Gustafsson, A. Andersson, K. Budhavant, S. Bikkina, W. Fang, S. Dasari, Junwen Li, Abdus Salam, S. Satheesh, S. Tiwari, Sang-Woo Kim, M. Lee, S. Kang, C. Li, K. Du, M. Zheng and C. Yan "Sources, degradation and light absorption of BC and BrC aerosols over East Asia, South Asia and the Himalaya-Tibetan Plateau." *European Geoscience Union Conference* Vienna, Austria: EGU 2019-13286 - Session AS3.17 – Air pollution in Asia, 2019.
 39. S. Dasari, A. Andersson, S. Bikkina, H. Holmstrand, K. Budhavant, Abdus Salam and Ö. Gustafsson "Isotope forensics unravel regional differences in sources of black carbon aerosol in South Asia." *European Geoscience Union Conference*, Vienna, Austria: EGU 2019-525 - Session AS3.17 – Air pollution in Asia, 2019.
 40. Abdus Salam "Atmospheric Trace Gases, Particulate Matters, and Aerosol Optical Depth in Bangladesh: Concentrations, Sources, and Impacts.." *International Conference on Climate Change (ICCC-2019)* Dhaka, Bangladesh: Center for Climate Change Study and Resource Utilization, DU, 2019.
 41. Morshad Ahmed and Abdus Salam "Aerosol Composition and its Health Impact in a Highly Polluted Mega City in Southeast Asia (Dhaka, Bangladesh)." *4th Atmospheric Composition and Asian Monsoon Workshop* Bangi, Malaysia: ACAM, 2019.
 42. Farah Jeba, Abdus Salam, Md. Firoz Khan, Mohd. Talib latif and Azwani Alias "Monitoring of Polycyclic Aromatic Hydrocarbons (PAHs) in Atmospheric Suspended Particulate Matters collected from Rural Bhola island in Bangladesh.." *Atmospheric Composition and Asian Monsoon (ACAM) Workshop* Kuala Lumpur, Malaysia: ACAM, 2019.
 43. Ingo Wohltmann, Rasheda Aktar Samiha, Farah Jeba, Abdus Salam, Markus Rex and Ralph Lehmann "Ozone and water vapour sonde measurements at Bhola Island, Bangladesh." *StratoClim Final Meeting and Science Workshop* Potsdam, Germany: StratoClim, 2019.
 44. Rasheda Akhter Samiha, Ingo Wohltmann, Farah Jeba, Abdus Salam, Markus Rex and Ralph Lehmann "Analysis of tropospheric ozone enriched layers and water vapour over Bhola Island Bangladesh." *4th Atmospheric Composition and Asian Monsoon Workshop* Bangi, Malaysia: ACAM, 2019.
 45. Samiha Nahian, Abdus Salam, Farah Jeba and Tanzina Akther "Characterization of Atmospheric Fine Particulate Matter at Indoor Environment of Several Residential Homes in Dhaka, Bangladesh." *4th Atmospheric Composition and Asian Monsoon (ACAM) Workshop*, Kuala Lumpur, Malaysia: ACAM, 2019.
 46. Halima-E-Sadia and Abdus Salam "Evaluation of the Air Pollution Resistivity of Different Plant Species Growing in Greater Dhaka Region of Bangladesh." *Bangladesh Chemical Congress 2018* Dhaka: 41st Annual General meeting of BCC, 2018.
 47. Farah Jeba, Abdus Salam, Md. Firoz Khan, Mohd. Talib latif and Azwani Alias "Monitoring of polycyclic aromatic hydrocarbons (PAHs) in atmospheric suspended particulate matters collected from rural Bhola and urban Dhaka in Bangladesh." *Bangladesh Chemical Congress*, OPA4. Dhaka, Bangladesh: 41st Annual General meeting of BCC, 2018.
 48. Abdus Salam "Chemical Composition and Health Risk Assessment of Atmospheric Fine Particulate Matters in Bangladesh." *14th iCACGP Quadrennial Symposium & 15th IGAC Science Conference*, , pp. Abstract ID: 1.079. Takamatsu, Japan: 2018.
 49. Tanzina Akther, Morshad Ahmed and Abdus Salam "Particulate Matters (PM10, PM2.5 and PM1.0) and Gaseous Pollutants Exposure to Indoor Environment and the Association of Fine

- PM with Lung Function in Dhaka city, Bangladesh." *14th iCACGP Quadrennial Symposium & 15th IGAC Science Conference*, , pp. Abstract ID: 1.069. Takamatsu, Japan: 2018.
50. Morshad Ahmed, Md. Safiur Rahman, Guosheng Yang, Masatoshi Yamada, Bishwanath Bhattachariya, Tanzina Akther and Abdus Salam "Source identification and health risk assessment of trace metals in suspended particulate matters collected in Dhaka, Bangladesh." *14th iCACGP Quadrennial Symposium & 15th IGAC Science Conference*, , pp. Abstract ID: 1.083,. Takamatsu, Japan.: 2018.
 51. Shatabdi Roy and Abdus Salam "Impact of Air Pollution on School Children in Dhaka city, Bangladesh." *14th iCACGP Quadrennial Symposium & 15th IGAC Science Conference*, , pp. Abstract ID: 1144. Takamatsu, Japan, 2018.
 52. Akash Talukder, M. D. H Khan and Abdus Salam "Assessing risk to human health for heavy metal contamination through street dust in the Southeast Asian Megacity: Dhaka, Bangladesh." *14th iCACGP Quadrennial Symposium & 15th IGAC Science Conference*, Abstract ID: 5.003. Takamatsu, Japan: 2018.
 53. Abdus Salam "The trend, Chemical Composition, and Emission Sources of Atmospheric Fine Particulate Matters in Bangladesh." *International Conference on Atmospheric Composition and Climate Change in Asia (ICACCCA) 2018*, UKM Bangi, Malaysia: 2018.
 54. Morshed Ahmed, Md Safiur Rahman, Guoshend Yang, Masatoshi Yamada, Biswanath Bhattachariya, Tanzina Akther and Abdus Salam "Chemical Characterization and Sources Apportionment of Suspended particulate Matters in Dhaka City, Bangladesh." *Bangladesh Chemical Congress* , pp. Oral 15. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 55. Akash Talukder and Abdus Salam "Indoor pollution level assessment and health risk study of different household dusts in Dhaka, Bangladesh." *Bangladesh Chemical Congress* , pp. 32. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018 .
 56. Fatema Akter and Abdus Salam "Water soluble ions and trace metals concentrations and sources characterization in fog water collected from coastal area, Bhola, Bangladesh.." *Bangladesh Chemical Congress* , pp. 46. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 57. Mahjuba Akter Bipasha and Abdus Salam "Morphological and chemical characterization of outdoor particulate matter (PM_{2.5} and PM₁₀) at different locations in Dhaka, Bangladesh." *Bangladesh Chemical Congress* , pp. 52. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 58. Mohammad Ullah Shanto, Md Safiur Rahman and Abdus Salam "Health risk assessment of toxic heavy metals in the soil and dust particles of different roadside schools of Dhaka city, Bangladesh.." *Bangladesh Chemical Congress* , pp. 57. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 59. Sanchoy Chandra Biswasarma and Abdus Salam "The method estimation of laevoglucosen determination in particulate matter and biomass closed burning residue samples using UV-Vi visible spectrometer.." *Bangladesh Chemical Congress* , pp. 69. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 60. Rashada Akter Nahida and Abdus Salam "Determination of PAHs concentration and sources characterization with PMF model in the atmospheric particulate matters in Dhaka and potential health impact study.." *Bangladesh Chemical Congress* , pp. 88. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 61. Rasheda Aktar Samiha, Morshed Ahmed, Mohammad Shohel and Abdus Salam "Chemical composition and source characterization of hailstones in Dhaka, Bangladesh.." *Bangladesh Chemical Congress* , pp. 109. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
 62. Rumana Islam Rani, Farhana Khanam Ferdousi and Abdus Salam "Determination of trace metals and water soluble ions from cooking stoves in different households in Bangladesh.." *Bangladesh Chemical Congress* , pp. 117. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.

63. Tanzina Akther, Morshad Ahmed, Mohammad Shohel, Farhana Khanom Ferdousi and Abdus Salam "Assessment of indoor air quality and influence of ultra-fine particles (PM_{1.0}) on lung function in residential houses of Dhaka, Bangladesh." *Bangladesh Chemical Congress* , pp. 118. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
64. Sabuz Paul and Abdus Salam "Biomass burning emission of volatile organic compounds, black carbon, brown carbon and particulate matter in Bangladesh." *Bangladesh Chemical Congress* , pp. 119. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
65. Shatabdi Roy and Abdus Salam "Impact of air pollution on school children in Dhaka city, Bangladesh.." *Bangladesh Chemical Congress* , pp. 134. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
66. Syeda Sadika Haque and Abdus Salam "Trace metals, water-soluble ions, black carbon and brown carbon emissions from fossil fuel combustion.." *Bangladesh Chemical Congress*, pp. 150. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018 .
67. Tanzina Tul Karim and Abdus Salam "Source apportionment study with PMF model and health risk assessment of volatile organic compounds (VOCs) at atmospheric fine particulate matters (PM_{2.5}) in Dhaka, Bangladesh.." *Bangladesh Chemical Congress* , pp. 159. Dhaka, Bangladesh: Bangladesh Chemical Society, 2018.
68. Arefin Nahar and Abdus Salam "Human health exposure to airborne particulate matter in Dhaka city, Bangladesh.." *Bangladesh Chemical Congress* , pp. 9. Dhaka city, bangladesh: Bangladesh Chemical Society, 2018 .
69. Abdus Salam "Long term air quality status at a southeast Asian mega city and an IGP outflow location: Aerosol Chemical Characterization and Optical Properties." *Fall Meeting, American Geophysical Union 2018* , pp. A009. Washington DC, USA: 2019 American Geophysical Union, 2018.
70. Abdus Salam "Air Quality Status at an Extremely Polluted Southeast Asian Mega City-Dhaka, Bangladesh. Air Pollution Extremes Workshop, November 2018, Columbia University, " *Air Pollution Extremes Workshop* New York, USA: Columbia University, NY, USA, 2018.
71. Abdus Salam "Influence of Asian Monsoon on Chemical Composition, and Emission Sources of PM_{2.5} in Bangladesh." *3rd International Workshop on Atmospheric Composition and the Asian Monsoon (ACAM)*, pp. Oral. Guangzhou, China.: 2017 .
72. Morshad Ahmed, Abdus Salam, Manobendra Das and Md. Rokonujjaman "Chemical Characterization of the Particulate Matters Emitted from Biomass Burning in the Cooking Stoves in Bangladesh." *3rd International Workshop on Atmospheric Composition and the Asian Monsoon (ACAM)* Guangzhou, China: ACAM 2017, 2017.
73. Abdus Salam "Chemical Composition and Emission Sources of the Fine Particulate Matters in a Southeast Asian Mega City (Dhaka, Bangladesh)." *EGU General Assembly 2016* , pp. 2016-1161-1. Geophysical Research Abstracts Vol. 18, 2016.
74. Abdus Salam, Örian Gustafsson, Md. Dulal Hossain Khan, Md. Imdadul Haque and August Anderson "Carbonaceous Species in the Atmospheric Particulate Matters in a Southeast Asian Mega City, Dhaka-Bangladesh." *Development Research Conference* Stockholm, Sweden: 2016
75. Abdus Salam "Overview of Air Pollution Studies in Bangladesh (oral).." *Future Earth Asian Perspective Symposium on Air Pollution Trans-disciplinary Collaboration* Taipei, Taiwan: 2016 .
76. Crystal Lynn May Weagle et al and Abdus Salam "Insight into the Global Distribution and Chemical Composition of PM_{2.5} from the SPARTAN Global Aerosol Network." *AGU Fall Meeting, San Francisco, California, USA* San Francisco, California, USA: 2017 AGU, 2016 .
77. Mohammad Shohel, Mohammad Ullah, Fatema Akter and Abdus Salam "Chemical Composition of Rain Water Collected at Urban and Rural Areas in Bangladesh." *16th Asian Chemical Congress (16ACC)* , pp. DOI: 10.13140/RG.2.1.1872.0405. Dhaka, Bangladesh: ACC 2016, 2016

78. Abdus Salam "Atmospheric Pollution and its Emission Sources in the Southeast Asian Megacity, Dhaka-Bangladesh (Oral)." *17th Global Emissions Initiatives (GEIA) Conference*, Beijing, China: 2015 .
79. Mohammad Shohel, Abdus Salam and Hasina Simol "Fog and Aerosol Chemical Characteristic of Bangladesh During Winter Season." *The second international workshop on Atmospheric Composition and the Asian summer Monsoon (ACAM)* , pp. DOI: 10.13140/RG.2.1.3403.7848. Bangkok, Thailand: ACAM, 2015.
80. Abdus Salam "Aerosol Optical Depth (AOD) Measurements from a Newly Established NASA-AERONET Station in Dhaka, Bangladesh (Oral)." *Seventh Regional Stakeholders cum Coordination Meeting (RSC7) Dhaka, Bangladesh*, 2013 .
81. Abdus Salam, M. Arifur Rahman, M. Ashaduzzaman, Arif Rahman and Brent Holben "Preliminary results from sun photometer-a newly established NASA-AERONET station in Dhaka University (Oral)." *Bangladesh Chemical Congress (BCC) Dhaka, Bangladesh*, 2012 .
82. Abdus Salam "Chemical Characterization of Atmospheric Particulate Matters and Trace Gases in a Developing Country (Bangladesh)." *The World Climate Research Program Open Science Conference* Denver, Colorado, USA: 2011 .
83. Abdus Salam, G Lesins and U Lohmann "Ice Nucleation Characteristics of Atmospheric Trace Gas Aged Mineral Dust Aerosols with a Continuous Flow Diffusion Chamber." *The seventeenth international conference on nucleation and atmospheric aerosols (ICNAA)* , pp. 423-426. Galway, Ireland: 2007 .
84. Abdus Salam, Md. T. Hossain, Md. R. Islam, M. Nur-E-A. Siddique, Md. A. Hossain and A. M. S. Alam "Study on the Gaseous Pollutants and Trace Metals in the Air of Dhaka city (Oral)." *Bangladesh Chemical Congress (BCC)*, Dhaka, Bangladesh: Bangladesh Chemical Society, 2007.
85. Abdus Salam "Sources and Chemical Characteristics of Atmospheric Aerosol Particles at Urban and Rural Sites in Bangladesh" *Composition of Asian Atmospheric Deposition (CAD) Workshop* Hyderabad, India: 2006 .
86. Abdus Salam, U. Lohmann, B. Crenna, G. Lesins, P. Klages and D. Rogers "Deposition Ice Nucleation Studies of Kaolinite and Montmorillonite Mineral Dust Particles with a New Continuous Flow Diffusion Chamber." *The Scientific Assembly of the International Association of Meteorology and Atmospheric Sciences (IAMAS)* Beijing, China: IAMAS, 2005
87. Abdus Salam, B. Crenna, P. Klages and U. Lohmann "A Canadian Continuous Flow Diffusion Chamber.." *International Conference on Nucleation and Atmospheric Aerosols* , pp. 581-584. Kyoto, Japan: Nucleation and Atmospheric Aerosols, edited by M. Kasahara and M. Kulmala, 2004 .
88. P. Klages, A. Salam, B. Crenna, G. Lesins, D. Rogers and U. Lohmann "Ice Nucleation Studies at the New Canadian Continuous Flow Diffusion Chamber.." *The eighth International Conference on Carbonaceous Particles in the Atmosphere* , pp. 29. Vienna, Austria: 2004 .

INVITED TALK (SELECTED)

1. Abdus Salam (2024), Dhaka's Air Quality Landscape. organized by Shakti Foundation and USAID, Bangladesh
2. Abdus Salam (2024), Air Quality Landscape in a Southeast Asian Highly Polluted Megacity (Dhaka, Bangladesh), iLEAPS Global Colloquium Series 2024.
3. Abdus Salam (2024), Black Carbon and Brown Carbon Emission and Optical Properties over Bangladesh, Bangladesh Council of Scientific and Industrial Research (BCSIR) Congress-2023, Dhaka, Bangladesh,
4. Abdus Salam (2021). Sources, Characterization and Management of Air Quality in Dhaka, Bangladesh. IICAQM Invited Talk on December 16, 2021.

5. Abdus Salam (2021). Atmospheric Pollution in the Highly Polluted Megacity - Dhaka, Bangladesh: Causes, Impact and Solution. *International Conference on Science and Technology (ICSTB-2021)*, Dhaka: BCSIR.
6. Abdus Salam (2020). An Overview of Air Quality and Health Consequences in Bangladesh." *Northern India Air Pollution Meeting, August 23-24, 2020 (online)* Kanpur, India and Yokohama, Japan.
7. Abdus Salam (2021). Indoor Air Quality and Associated Health Impacts in Dhaka, Bangladesh, November 19, Global Centre for Clean Air Research, University of Surrey, UK.
8. Abdus Salam (2021). Spatial and Temporal Variation of Ozone over the Ganges – Brahmaputra – Meghna Delta, Integrated Land Ecosystem - Atmosphere Processes Study (iLEAPS), September 16, India
9. Abdus Salam (2021). Environmental and Personal Exposure Monitoring with Lowcost Sensors and Associated health Impact in Dhaka Bangladesh at Sustainability Research and Innovation Congress 2021 (SRI 2021). 12-15 June, Online and onsite in Brisbane Australia.
10. Abdus Salam (2021). How clean is the air we breathe in Across South Asia?: Bangladesh Perspective at an International Seminar on "Air Pollution and Climate Change: Research, Mitigation, Technologies, and Policy Making" organized by NEEDS (Nepal) and PRAKRITI Group (India).
11. Abdus Salam (2019). Air pollution challenges and mitigation opportunities in Bangladesh (Oral), Clean Air Engineering for Cities (CArE-Cities) Workshop, University of Surrey, UK, April 10-11.
12. Abdus Salam (2019). Air Pollution in Bangladesh: Composition, Sources and Impacts (Oral), Public Lecture Organized by Dhaka University Science Society (DUSS), February 24, Dhaka, Bangladesh.
13. Abdus Salam (2018). Air Quality Status at an Extremely Polluted Southeast Asian Mega City-Dhaka, Bangladesh, Air Pollution Extremes Workshop, November, Columbia University, New York, USA.
14. Abdus Salam (2018). Chemical Characterization and Sources of Atmospheric Particulate Matters and Health Impact Studies in Bangladesh (Plenary Speaker), SESM International Symposium 2018, AIU, Dhaka, Bangladesh.
15. Abdus Salam (2018). The trend, Chemical Composition, and Emission Sources of Atmospheric Fine Particulate Matters in Bangladesh (Invited), International Conference on Atmospheric Composition and Climate Change in Asia 2018 (ICACCCA 2018), UKM Bangi, Malaysia.
16. Abdus Salam (2017). Influence of Asian Monsoon on Chemical Composition, and Emission Sources of PM_{2.5} in Bangladesh. 3rd International Workshop on Atmospheric Composition and the Asian Monsoon (ACAM), Guangzhou, China.
17. Abdus Salam (2016). International Workshop on Major Challenges and Opportunities for Air Pollution Research and Communication in South Asia: Bangladesh Perspective, November 28-29, Kathmandu, Nepal.
18. Abdus Salam (2016). Overview of Air Pollution Studies in Bangladesh, Future Earth Asian Perspective Symposium on Air Pollution Trans-disciplinary Collaboration, Taipei, Taiwan.
19. Abdus Salam (2015). Atmospheric Pollution and its Emission Sources in the Southeast Asian Megacity, Dhaka-Bangladesh. 17th Global Emissions Initiatives (GEIA) Conference, Beijing, China.
20. Abdus Salam (2015). Introduction of the Atmospheric Chemistry Research in Bangladesh, Planning Workshop of the International Global Atmospheric Chemistry (IGAC), AIT, Bangkok, Thailand.
21. Abdus Salam (2014). Recent Air Quality Status in Bangladesh, Workshop on the Persistent Winter Fog, ICIMOD, Kathmandu, Nepal.

22. Abdus Salam (2013). Aerosol Optical Depth (AOD) Measurements from a Newly Established NASA-AERONET Station in Dhaka, Bangladesh. Seventh Regional Stakeholders cum Coordination Meeting (RSC7), 18-19 May, Dhaka, Bangladesh.
23. Abdus Salam (2012). Aerosol chemical characterization of a highly polluted megacity in Southeast Asia (Dhaka, Bangladesh) (Invited Lecture), Potsdam, Clarkson University, USA.
24. Abdus Salam (2012). Preliminary results from sun photometer-a newly established NASA-AERONET station in Dhaka University, Bangladesh Chemical Congress (BCC), BCSIR, Dhaka, Bangladesh.
25. Abdus Salam (2010). Application of PARGAN for the determination of aerosol particle growth rate in field measurements, Atmosphere Chemistry Discussion Series, Centre for Atmospheric Chemistry, York University, Toronto, Canada.
26. Abdus Salam (2009). Air quality monitoring and chemical characterizations at urban and regional background locations in Bangladesh (Invited), Atmosphere Chemistry Seminar Series, Environment Canada, Toronto, Canada.
27. Abdus Salam (2009). Sources and characterization of atmospheric pollutants in Bangladesh, International Workshop on Atmospheric Brown Cloud (ABC) Emission Inventory, 2008, Asian Institute of Technology (AIT), Bangkok, Thailand.
28. Abdus Salam (2007). Study on the Atmospheric Pollution in Dhaka city, Bangladesh, Bangladesh Chemical Congress (BCC), Chemistry Department, Dhaka, Bangladesh.
29. Abdus Salam (2006). Sources and chemical characteristics of atmospheric aerosol particles at urban and rural sites in Bangladesh, Composition of Asian Atmospheric Deposition (CAD) Workshop, Hyderabad, India.
30. Abdus Salam (2006). Ice nucleation and chemical characterization of atmospheric aerosol particles, Atmospheric Brown Cloud (ABC) Training School, Hanimaadhoo, Maldives.
31. Abdus Salam (2005). Deposition ice nucleation studies of kaolinite and montmorillonite mineral dust particles with a Continuous Flow Diffusion Chamber, International Association of Meteorology and Atmospheric Science (IAMAS), Beijing, China.
32. Abdus Salam (2005). An Observatory Proposal for the Atmospheric Brown Clouds (ABC) Project: The Island of the Bay of Bengal (Bhola, Bangladesh). The Seventh ABC Science Team Meeting, Organized by United Nation Environmental Program (UNEP), Bangkok, Thailand, December.
33. Abdus Salam (2004). The efficiency of atmospheric aerosol particles in ice nucleation with Continuous Flow Diffusion Chamber, Atmospheric Science Seminar, Department of Physics and Atmospheric Science, Dalhousie University, 2004, Halifax, Canada.
34. Abdus Salam (2003). Aerosol chemical characteristics of different urban and rural sites in Southeast Asia (Bangladesh) and Central Europe (Austria), Department of Physics and Atmospheric Science, Dalhousie University, Halifax, Canada.
35. Abdus Salam (2003). Occurrence and characteristics of carbonaceous species in atmospheric aerosol particles, Institute for Analytical Chemistry, Vienna University of Technology, Vienna, Austria.

RESEARCH PROJECTS

Subject	Project Name	Sources	From Date	To Date	Collaboration
Atmospheric Science	Aerosol Robotic Network (AERONET) at megacity Dhaka and background Island Bhola, Bangladesh	NASA, USA	25-06-2013	12-06-2030	National Aeronautics and Space Administration, USA

Atmospheric Science	PANDORA Network, USA	NASA, USA	01-01-2023	12-06-2030	National Aeronautics and Space Administration, USA
Atmospheric Chemistry	Building Capacity to Improve Air Quality in South Asia: Reducing PM _{2.5} Through Low-Cost Sensor Network Driven Policy Decisions	State Department, USA	30-09-2020	29-09-2025	Duke University & University of Wisconsin - Madison, USA
Atmospheric Science	Clean Air Engineering for Cities (CArE-Cities)	University of Surrey, UK	01-01-2019	31-12-2020	University of Surrey, UK
Atmospheric Chemistry	Chemical Characterization and Source apportionment of PM _{2.5}	Akita Prefectural University, Japan	01-01-2019	31-12-2030	Shibaura Institute of Technology, Japan
Atmospheric Chemistry	Development of Sweden-Bangladesh Collaboration towards Source Determination of Black Carbon Aerosols in Bangladesh: Prioritized Short-Lived Climate Pollutants	SIDA, Sweden	23-06-2013	12-06-2033	Stockholm University, Sweden
Atmospheric Chemistry	Surface Particulate Matter Network (SPARTAN) -A Global Particulate Matter Network	Clean Air Fund, NSF fund	18-06-2013	12-06-2033	Dalhousie University, Canada Washington University, USA
Atmospheric Science	Health Investigation and Air Sensing for Asian Pollution (Hi-ASAP)	Academia Sinica, Taiwan	01-04-2019	30-03-2034	Center for Sustainability Science, Academia Sinica
Atmospheric Science	Air Quality and Assessment of the Municipal Waste Disposal in the Secondary Transfer Station and Land filling locations in Greater Dhaka, bangladesh	UGC, GoB	01-07-2021	30-06-2022	University Grants Commission of Bangladesh
Atmospheric Chemistry	Determination of Silica in Atmospheric Dusts of Different Ambient Environments and Its Health Consequences	Centinuel Research Fund, DU	01-06-2021	31-05-2021	Department of Chemistry, DU
Atmospheric Chemistry	Sensors based study of different biomass burning emissions and	MOIST, GoB	01-07-2018	30-06-2019	Ministry of Science and Technology,

	their impact on human health and climate change				Government of the People's Republic of Bangladesh
Atmospheric Science	Studies on the Air Pollution Tolerance Index of Different Plant Species in Bangladesh	UGC, GoB	01-07-2018	01-01-2019	University Grants Commission of Bangladesh
Atmospheric Chemistry	Impact Assessment Study of the Size Selective Particulate Matters on Human Health and Climate Change in Bangladesh	MoE, GoB	01-07-2016	30-06-2018	Ministry of Education, Government of the People's Republic of Bangladesh
Atmospheric Science and Management	Identifying the Measures for Carbon Emission Reduction in Dhaka Megacity: A Study in the Dhaka Megacity	BCCT	01-06-2016	30-06-2018	Bangladesh Climate Change Trust (BCCT) Ministry of Environment, Forests and Climate Change
Atmospheric Science	Black carbon Emission from Brick Kilns in Bangladesh	Climate and Clean Air Coalition (CCAC)	01-01-2014	29-08-2019	US State Department & ARCADIS, USA
Aqueous Atmospheric Chemistry	Understanding of the Persistent Winter Fog in IGP region	ICIMOD, Nepal	01-06-2013	31-05-2016	International Centre for Integrated Mountain Development (ICIMOD), Nepal
Atmospheric Science	A Coastal South Asian Aerosol and Satellite Verification Assessment	ONR Global	01-10-2012	30-08-2015	Naval Research Laboratory, USA & NASA, USA
Atmospheric Chemistry	Chemical characterisation of biomass burning pollutions from cooking stoves in Bangladesh, and impact on human health and climate change	MOIST, GoB	01-07-2011	30-06-2012	Ministry of Science and Technology, Government of the People's Republic of Bangladesh

OTHER EXPERIENCES

Title	Organization	Location	From Date	To Date
Secretary	Dhaka University Club	Dhaka, Bangladesh	01-06-2019	30-06-2020
Secretary	Bangladesh Chemical Congress 2018	Dhaka, Bangladesh	01-01-2018	30-12-2018

Treasurer	Dhaka University Chemistry Alumni Association (DUCAA)	Dhaka	01-05- 2017	Currently Working
Associate Editor	Frontiers in Sustainable Cities (section Climate Change and Cities)	Switzerland	25-10- 2020	Currently Working
Seminar in Charge	University of Dhaka, Bangladesh	Department of Chemistry	15-01- 2016	Currently Working
Sports in Charge	University of Dhaka, Bangladesh	Department of Chemistry	15-06-2011	Currently Working
Assistant House Tutor	University of Dhaka, Bangladesh	Amar Ekushey Hall	26-01- 2006	08-02-2009