

ILAQH Publications List

Books & Monographs

2025

Morawska, L. Doktor Honoris Causa Politechniki Lubelskiej, Politechnika Lubelska. ISBN 978-83-7947-637-4. <https://doi.org/10.35784/9788379476381>

2003

Morawska, L. and Salthammer, T. (Editors.). Indoor Environment: Airborne Particles and Settled Dust. WILEY-VCH, Weinheim, Germany 2003.

2002

Schwela, D., Morawska, L. and Kotzias, D. (Editors). Guidelines for Concentration and Exposure-Response Measurements of Fine and Ultra Fine Particulate Matter for use in Epidemiological Studies, World Health Organization, 2002.

1999

Schwela, D., Morawska, L. and Jaafar, A.B. Health Guidelines for Vegetation Fire Events: Teachers' Guide, World Health Organization, 1999.

Schwela, D., Goldammer, J.G., Morawska, L. and Simpson, O. (Editors). Health Guidelines for Vegetation Fire Events, World Health Organization, 1999.

1995

Morawska, L., Bofinger, N.D. and Maroni, M. (Editors). Indoor Air – An Integrated Approach, Elsevier Science Limited, 1995.

Chapters in Books

2025

Kennedy, A., Morawska, L. and Adotey, V. Clearing the air: Navigating regulatory frameworks for indoor air quality control. Air Pollution and the Brain. Eds. Katja Kanninen, ISBN 978-3-031-99304-6, 2025. <https://link.springer.com/book/9783031993015>

Brown, R., Rahman, S.M.A., Miljevic, B., Rathnayaka M., Charith, C., Thuy., C. and Ristovski, Z.D., Introductory university climate change education: an Australian review. In John, Michele (Ed.) *The Routledge Handbook of Global Sustainability Education and Thinking for the 21st Century* [1st ed.]. Routledge, Abingdon, Oxon, pp. 79-97, 2025.

2022

Grau, U., Fernandez-Abascal, G., with contributions from Morawska, L. "Masks: to disguise your identity, or to protect you from what is in the air?", Folk costumes, Indo-Pacific Air. Art Paper Editions, ISBN 9789493146921, 2022. **This book was selected as a winner of the XIII Ibero-American Biennale of Architecture and Urbanism (BIAU) in the "Other Coordinates" category in November 2024.**

Morawska, L. and Huang, W. Chapter X.I WHO Health Guidelines for Indoor Air Quality and National Recommendations/standards. *Handbook of Indoor Air Quality*. Eds Y Zhang, PK Hopke, and C Mandin. Springer Nature Singapore, ISBN 978-981-16-7679-6 | ISBN 978-981-16-7680-2 (eBook), 2022. <https://link.springer.com/referencework/10.1007/978-981-16-7680-2> or <https://doi.org/10.1007/978-981-16-7680-2> **The book was downloaded over 7,000 times in 138 countries and has been cited >100 times (up to 8th November 2023). The book also received a China New Development Award from Nature Springer on 21st November 2023.**

2019

Rahman, S.A., Rainey, T.J., Ristovski, Z.D., Dowell, A., Islam, M.A., Nabi, M.N. and Brown, R.J. Review on the use of essential oils in compression ignition engines. In *Methanol and the Alternate Fuel Economy*. Springer, Singapore, pp. 157-182, 2019.

2015

Faghihi, E.M. and Morawska, L. Occupational Release of Engineered Nanoparticles: A Review. M. Viana (ed.), Indoor and Outdoor Nanoparticles: Determinants of Release and Exposure Scenarios. *Handbook of Environmental Chemistry*, Springer International Publishing Switzerland, 2015. <https://doi.org/10.1007/978-93-81-631-401>

2012

Kumar, P., Morawska, L., Harrison, R.M. Nanoparticles in European cities and associated health impacts. *The Handbook of Environmental Chemistry: Air Quality in Europe*. Viana, M. (Editor), Springer-Verlag Heidelberg, 2012.

2011

Morawska, L., Jayaratne, E.R., Knibbs, L.D. and Megat Mokhtar, M. Regulations and Policy Measures Related to the Reduction of Ambient Particulate Matter. In: F. Zereini, CLS Wiseman (Eds). *Urban Airborne Particulate Matter: Origin, Chemistry, Fate and Health Impacts*. Springer Verlag Berlin Heidelberg. pp. 599-622, 2011.

2009

Keogh, D.U., Kelly, J., Mengersen, K., Jayaratne, E.R., Ferreira, L. and Morawska, L. Tailpipe particle emission factors derived for motor vehicles for application to transport modelling and health impact assessments of urban fleets. *Traffic Related Air Pollution* (S. Demidov and J. Bonnet Eds), Nova Science Publishers, New York, pp. 69-101, 2009.

2008

- Smit, R. Dia, H. and Morawska, L. Road Traffic Emission and Fuel Consumption Modelling: Trends, New Developments and Future Challenges. *Traffic Related Air Pollution* (S. Demidov and J. Bonnet Eds), Nova Science Publishers, New York, 2008.
- Brown, S., Tucker, S., Morawska, L. and Egan, S. Estimating Indoor Air Quality during Design. *Technology, Design and Process Innovation in the Built Environment* (P. Newton, K. Hampson and R. Drogemuller, Eds.), Taylor & Francis Books Ltd, London, 2008.
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2005

- Kokot, S. and Ayoko, G.A. Multicriteria Decision Making, *Encyclopaedia of Analytical Science*, Second Edition, Elsevier, Oxford, P. Worsfold, A. Townshend and C. Poole (Editors), Vol2, pp40-45, 2005.

2004

- Morawska, L. and Jamriska, M. Environment, energy and health in housing design. *Technology, Information, and System Management Resources Challenge II: the Sustainable Built Environment, Encyclopedia of Life Support Systems (EOLSS)*. Developed under the auspices of the UNESCO, Eolss Publishers, Oxford, UK, F Haghighat (Editor), 2004.
- Ayoko, G.A. Volatile Organic Compounds in Indoor Environments. *The Handbook of Environmental Chemistry*, Springer-Verlag Heidelberg. 4F, pp. 1-35, 2004.
- Morawska, L. Indoor particles, combustion products and fibres. *The Handbook of Environmental Chemistry*, Springer-Verlag Heidelberg. 4F, pp. 117-147, 2004.

2003

- Jayarathne, E.R. Thunderstorm electrification mechanisms. *The Lightning Flash*, 34: 17, 2003.
- Jamriska, M. Modeling of indoor particle concentration. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 319-339, 2003.
- Schmidt-Ott, A. and Ristovski, Z.D. Measurements of airborne particles. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 56-81, 2003.
- Ayoko, G.A. and Uhde, E. Organic compounds absorbed on particles and settled house dust. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 297-318, 2003.
- Morawska, L. Motor vehicle emissions as a source of indoor particles. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 297-318, 2003.
- Morawska, L. and He, C. Particle concentration level and size distribution characteristics in residential and non-industrial workplace environments. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 190-224, 2003.
- Morawska, L. and Salthammer, T. Introduction to sampling and measurement techniques. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 49-55, 2003.
- Morawska, L. and Salthammer, T. Fundamentals of indoor particles and settled dust. *Indoor environment*, Wiley – VCH. L. Morawska and T. Salthammer (Editors), pp. 3-46, 2003.
- Morawska, L. and Jamriska, M. Filtering in relation to outdoor air quality. ISAIQ-CIB TG 42 *Performance criteria of buildings for health and comfort*. International Society for Indoor Air Quality and Climate, pp. 21-23, 2003.
- Bell, J., Bergman, R., Garcia Hansen, V., Mabb, J. and Morawska, L. Occupant Health and Productivity: An Australian Perspective. In: *Summary Book of The CIB 2003 International Conference on Smart and Sustainable Built Environment (SASBE 2003)*, 19-21 November 2003, Brisbane, Queensland.

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2000

- Morawska, L. and Moore, M.R. Health Risk Assessment and Management. *Indoor Air Quality: A Report on Healthy Impacts and Management Options*, Commonwealth of Australia, pp. 132-146, 2000.
- Morawska, L. The Impact of Fine and Ultra Fine Particles from Combustion Processes on IAQ. *Indoor Air Quality: A Report on Healthy Impacts and Management Options*, Commonwealth of Australia, pp. 99-114, 2000.
- Johnson, L., Jamriska, M., Morawska, L. and Ferreira, L. Vehicle emissions in Australia: From monitoring to modelling. *Urban Transport and the Environment VI*, WIT Press, Southampton, Boston, pp. 469-478, 2000.

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- Morawska, L. Knowledge and Technology Transfer in Teaching in Indoor Air Sciences. *Education and Training in Indoor Air Sciences*, Boschi, N (Editors), Kulwer Academic Publishers, pp. 175-180, 1999.

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Morawska, L., Jamriska, M. and Francis, P.W. Particle characterisation in surgical theatres. *Design, Construction, and Operation of Healthy Buildings - Solutions to Global and Regional Concerns*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta. D. Moschandreas (Editor), pp. 283-290, 1998.

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Morawska, L., Jamriska, M., and Francis, P. Aerosol size distribution and concentration in various units of a children hospital. *Ventilation and Air Quality Problems in Hospitals*. M. Maroni (Editors), Kluwer Academic Publishers, pp. 145-160, 1996.

1991

Phillips, C., Morawska, L., Khan, A. and Hsieh, I. Determination of the combined collection-counting efficiency of radon progeny on wire screens. In "Indoor Air Pollution: Radon, Bioaerosols, and VOCs", Lewis Publishers. Kay, J., Keller, G. and Miller, J. (editors), 1991.

Morawska, L. and Phillips, C.R. Criteria for closed chamber measurements of radon emanation rate. In "Indoor Air Pollution: Radon, Bioaerosols, and VOC's", Lewis Publishers. J. Kay, G. Keller, and J. Miller (Editors), 1991.

Articles – Refereed Journals

2025

Sajjad, M., Chu-Van, T., Shahariar, G.M.H., Suara, K.A., Surawski, N., Bodisco, T., Ristovski, Z.D., Brown, R.J. and Zare, A. Ship emissions and fuel economy under transient conditions: Revisiting the propeller law. *Marine Pollution Bulletin*, 221: 118535, 2025. <https://doi.org/10.1016/j.marpolbul.2025.118535>

Khan, S.B., Alroe, J., Medcraft, C., Sauret, E., Harrison, D. and Ristovski, Z.D. Secondary droplet breakup of impaction-pin nozzle: Comparison between experimental and CFD-DPM modelling. *Journal of Aerosol Science*, 190: 106664, 2025. <https://doi.org/10.1016/j.jaerosci.2025.106664>

Alinaghipour, B., Niazi, S., Groth, R., Miljevic, B. and Ristovski, Z.D. Determining optimal sampling conditions in the TSI Nanometer Aerosol Sampler 3089. *Atmospheric Measurement Techniques*, 18(4): 1063-1071, 2025. <https://doi.org/10.5194/amt-18-1063-2025>

Brown, Z.E., Soltau, C.P., Marshall, D.L., Bottle, S.E. and Miljevic, B. Novel reactions of a profluorescent nitroxide probe with ozone showcase a cascade of solvent-dependent redox reactions. *RSC Advances*, 15(32): 26395-26402, 2025. <https://doi.org/10.1039/D5RA03412D>

Jayarathne, E.R., Thomson, H., Dytlow, S., Phunthirawuthi, P., Thai, P., Thai, P., Buonanno, G. and Morawska, L. Spatial Variation of Ultrafine Particle Concentration Across an Urban Environment. *Environmental Science & Technology Air*, **Accepted 21 November 2025, In Press**.

Salonen, H., Salthammer, T., Alapieti, T., Mikkola, R. and Morawska, L. Indoor radon concentrations in European kindergartens and other educational facilities. *Environment International*, 205: 109877, 2025. <https://doi.org/10.1016/j.envint.2025.109877>

Li, Z., Li, S., Hu, M., Morawska, L., Jalaludin, B., Dharmage, S., Lin, S., Gao, M., Li, J., Zhang, E., Su, S., Wu, S., Liu, J., Zhu, H., Yue, W., Yu, W., Yu, J., Heazell, A.E.P., Yin, C., Dong, G.-H. and Liu, R. Extreme Temperature Events Exposure and Risks of Stillbirths: Nationwide Large Pregnancy Cohort Study in China. *Environment International*, 204: 109854, 2025. <https://doi.org/10.1016/j.envint.2025.109854>

Fan, Y., Chen, Z., Zheng, M., Li, Y., Liu, X., Li, J., Li, X., Monty, J. and Morawska, L. Directional effects of human and door motions on the transport of aerosols across a doorway. *Indoor Air*, **Accepted 12 October 2025, In Press**.

Li, X., Kevin, K., Lam, W.K., Ooi, A., Bates, S., McGain, F., Morawska, L., Kainer, M. and Monty, J. Mitigating airborne infection transmission in the common area of inpatient wards – A case study. *Fluids*, 10(10): 267, 2025. <https://doi.org/10.3390/fluids10100267>

Li, J., Wang, H., Gong, D., Li, Q., Wang, Y., Zhao, W., Zhang, C., Zhou, Z., Zhao, Y., Xu, Q., Zhou, Y., He, C., Ristovski, Z.D., Morawska, L., Liu, S.C. and Wang, B. Landscape Fragmentation Triggers Cascading Enhancement of Surface Ozone Production. *Communications Earth & Environment*, 6: 931, 2025. <https://doi.org/10.1038/s43247-025-02866-1>

Zhou, S., Zhang, Y., Yang, Z., Xu, R., Huang, W., Wu, Y., Xu, Z., Gao, Y., Liu, Y., Yu, W., Yu, P., Chen, G., Ju, K., Ye, T., Wen, B., Zhang, Y., Abramson, M., Morawska, L., Johnston, F., Hales, S., Coelho, M.S.Z.S., Guo, Y.-L., Heyworth, J., Kliengchuay, W., Knibbs, L.D., Lavigne, E., Marks, G.B., Matus, P., Morgan, G., Saldiva, P., Tantrakarnapa, K., Guo, Y., and Li, S. Impact of global short-term landscape fire sourced PM_{2.5} exposure on child cause-specific morbidity: a study in multiple countries and territories. *Nature Communications*, 16(1): 9347, 2025. <https://doi.org/10.1038/s41467-025-64411-0>

GBD 2021 Global Subarachnoid Hemorrhage Risk Factors Collaborators inc. Morawska, L. Global, Regional and National Burden of Non-traumatic Subarachnoid Hemorrhage and its Risk Factors – A Systematic Analysis for the Global Burden of Disease Study 2021. *JAMA Neurology*, 82(8): 765-787, 2025. <https://doi.org/10.1001/jamaneurol.2025.1522>

Oswin, H.P., Glachant, L., Lekamge, S.A., Alinaghipour, B., Khan, S.B. and Morawska, L. Using Indoor CO₂ Concentration Thresholds to Understand and Improve the Air Quality of Public Buildings: A Practical Approach. *Energy and Buildings*, 347(Part A): 116254, 2025. <https://doi.org/10.1016/j.enbuild.2025.116254>

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Xiu, M., Cheng, Y., Liu, S., Huang, Y., Xue, Y., Li, Y., Jayaratne, E.R., Wang, X., Thai, P., de Jesus, A. and Morawska, L. Characteristics, sources and risk assessment of volatile organic compounds in a subway environment – A case study in Xi'an, China. *Building and Environment*, 283: 113438, 2025.

Elangasinghe, A., Patel, H., Dirks, K.N., Hamilton, A., Fan, W., Chen, C., Talbot, N., Lim, S., Brook, M., Wells, B., Williams, D.E., Davy, P., Pattinson, W. and Salmond, J.A. A novel approach for quantifying elongated airborne mineral particles (EMPs) using an automated scanning electron microscope (SEM). *Atmospheric Environment*, 354: 121217, 2025. <https://doi.org/10.1016/j.atmosenv.2025.121217>

Yan, J., Liu, B., Jia, B., Zhu, K., Wu, Z., Tran, H., Morawska, L., Wang, L. and Chen, J. Comprehensive Profiling of Phthalic Acid Esters (PAEs) in Air-Conditioning Filters from Diverse Indoor Environments Across 12 Major Cities in China *Environmental Pollution*, 382: 126714, 2025. <https://doi.org/10.1016/j.envpol.2025.126714>

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- Ma, X., Morawska, L., Zou, B., Gao, J., Deng, J., Wang, X., Wu, H., Xu, X., Wang, Y., Tan, Z., Jiang, N., Shen, Y. and Salmond, J. Towards Compliance with the 2021 WHO Air Quality Guidelines: A Comparative Analysis of PM_{2.5} Trends in Australia and China. *Environment International*, 198: 109378, 2025. <https://doi.org/10.1016/j.envint.2025.109378>
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