

Complete ILAQH Publications List

Books & Monographs

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

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.

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/10.1007/698_2015_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.

Brown, S., Tucker, S., Morawska, L., Egan, S., He, C. and Boulaire, F. Estimating Indoor Air quality at design. *Technology, Design & Process Innovation in the Built Environment*. Taylor & Francis Books Ltd, 2008.

2005

Kokot, S. and Ayoko, G.A. Multicriteria Decision Making, *Encyclopaedia of Analytical Science*, Second Edition, Elsevier, Oxford, P. Worsfod, 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 Haghhighat (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.

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- Jayaratne, 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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- Morawska, L. New Directions: Particle air pollution down under. *Air Pollution Science for the 21st Century*, Elsevier Science, New York, Austin, Brimblecombe and Sturges (Editors), 2002.

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- Morawska, L., Ferreira, L., Jamriska, M., Thomas, S. and McGregor, F. Estimation of motor vehicle emission factors from road measurements of pollutant concentrations. *Urban Transport VII: Urban Transport and the Environment in the 21st Century*, WIT Press: Southampton, Boston. L.J. Sucharov and C.A. Brebbia (Editors), pp. 455-465, 2001.

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- 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. Indoor Air Risk Assessment and Management. *Encyclopedia of Environmental Analyses and Remediation*, John Wiley & Sons, Inc., pp. 2292-2316, 1998.
- 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.

1996

- 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

2024

- Morawska, L., Allen, J., Bahnfleth, W., Bennett, B., Bluyssen, P.M., Boerstra, A., Buonanno, G., Cao, J., Dancer, S.J., Floto, A., Franchimon, F., Greenhalgh, T., Haworth, C., Hogeling, J., Isaxon, C., Jimenez, J.L., Kennedy, A., Kumar, P., Kurnitski, J., Li, Y., Loomans, M., Marks, G.B., Marr, L.C., Mazzarella, L., Melikov, A.K., Miller, S.L., Milton, D.K., Monty, J., Nielsen, P.V., Noakes, C., Peccia, J., Prather, K.A., Querol, S., Salthammer, T., Sekhar, C., Seppänen, O., Tanabe, S., Tang, J.W., Tellier, R., Tham, K.W., Wargocki, P., Wierzbicka, A. and Yao, M. Mandating indoor air quality for public buildings. *Science*, 383: 6690, 2024. <https://doi.org/10.1126/science.adl0677>
- Schumacher, A.E., and **GBD 2021 Demographics Capstone Collaborators** inc. Morawska, L. Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *The Lancet*, Accepted 11 March 2024, In Press. [https://doi.org/10.1016/S0140-6736\(24\)00476-8](https://doi.org/10.1016/S0140-6736(24)00476-8)
- Liu, P., Shao, L., Zhang, Y., Silvonen, V., Oswin, H., Cao, Y., Guo, Z., Ma, X. and Morawska, L. Atmospheric microplastic deposition in association with GDP growth: insights from megacities in North China. *Journal of Hazardous Materials*, 469: 134024, 2024. <https://doi.org/10.1016/j.jhazmat.2024.134024>
- Pradhan, B., Singh, K., Jayaratne, E.R., Thompson, H., Jagals, P., Gucake, J., Hilly, J.J., Turagabeci, A. and Morawska, L. Assessing school children's personal exposure to PM_{2.5} in Suva, Fiji. *Atmospheric Environment*, 325: 120448, 2024. <https://doi.org/10.1016/j.atmosenv.2024.120448>
- Pradhan, B., Jayaratne, E.R., Thomson, H. and Morawska, L. Children's exposure to air pollution at five schools in Queensland, Australia: a citizen science project with application of low-cost monitors. *Atmospheric Environment*, 325: 120424, 2024. <https://doi.org/10.1016/j.atmosenv.2024.120424>
- Wang, L., Liu, B., Shi, L., Yan, J., Tan, W., Li, C., Jia, B., Wen, W., Zhu, K., Bai, Z., Zhang, W., Morawska, L., Chen, J. and Wang, J. 2023. Diverse Metabolic Effects of Cooking Oil Fume from Four Edible Oils on Human BEAS-2B Cells: Implications for Health Guidelines. *Environmental Science & Technology*, 58(3): 1462-1472, 2024. <https://doi.org/10.1021/acs.est.3c05984>
- Yu, W., Xu, R., Ye, T., Abramson, M.J., Morawska, L., Jalaludin, B., Johnston, F.H., Henderson, S.B., Knibbs, L.D., Morgan, G.G., Lavigne, E., Heyworth, J., Hales, S., Marks, G.B., Woodward, A., Bell, M.L., Samet, J.M., Song, J., Li, S. and Guo, Y. Estimates of global mortality burden associated with short-term exposure to fine particulate matter (PM_{2.5}). *The Lancet Planetary Health*, 8(3): e146-e155, 2024. [https://doi.org/10.1016/S2542-5196\(24\)00003-2](https://doi.org/10.1016/S2542-5196(24)00003-2)
- Kumar, P., Debele, S., Khalili, S., Haliots, C.H., Sahani, J., Aghamohammadi, N., de Fatima Andrade, M., Athanassiadou, M., Bui, K., Calvillo, N., Cao, S., Coulon, F., Edmondson, J.E., Fletcher, D., de Freitas, E.D., Guo, H., Hort, M.C., Katti, M., Kjeldsen, T.R., Lehmann, S., Locosselli, G.M., Malham, S.K., Morawska, L., Parajuli, R., Pfautsch, S., Rogers, C.D.F., Yao, R., Wan, F., Wenk, J. and Jones, L. Urban heat mitigation by green and blue infrastructure: a review of drivers, effectiveness and future needs. *The Innovation*, 5(2): 100588, 2024. <https://doi.org/10.1016/j.xinn.2024.100588>
- Hu, X., Wang, L.-B., Jalaludin, B., Knibbs, L.D., Yum, S.H.L., Lap, X.Q., Morawska, L., Nie, Z., Zhou, Y., Hu, L.-W., Huang, W.-Z., Ou, Y. and Dong, G.-H. Outdoor artificial light at night and incident cardiovascular disease in adults: a national cohort study across China. *Science of the Total Environment*, 918: 170685, 2024. <https://doi.org/10.1016/j.scitotenv.2024.170685>
- Higgins, C., Kumar, P and Morawska, L. Indoor Air Quality Monitoring and Source Apportionment Using Low-Cost Sensors: A Review of Factors of Importance. *Environmental Research Communications*, 6: 012001, 2024. <https://doi.org/10.1088/2515-7620/ad1cad>
- Ma, X., Zou, B., Deng, J., Gao, J., Longley, I., Xiao, S., Guo, B., Wu, Y., Xu, T., Xu, X., Yang, X., Wang, X., Tan, Z., Wang, Y., Morawska, L. and Salmond, J. A Comprehensive Review of the Development of Land Use Regression Approaches for Modeling Spatiotemporal Variations of Ambient Air Pollution: A Perspective from 2011-2023. *Environment International*, 183: 108430, 2024. <https://doi.org/10.1016/j.envint.2024.108430>
- Liu, P., Shao, L., Guo, Z., Zhang, Y., Cao, Y., Ma, X. and Morawska, L. Comparative study on physicochemical characteristics of atmospheric microplastics in winter in inland and coastal megacities: a case of Beijing and Shanghai, China. *Science of the Total Environment*, 912: 169308, 2024. <https://doi.org/10.1016/j.scitotenv.2023.169308>
- Xiao, X., Liu, R., Zhang, Z., Jalaludin, B., Heinrich, J., Lao, X., Morawska, L., Dharmage, S.C., Knibbs, L.D., Dong, G.-H., Gao, M., and Yin, C. Using Individual approach to examine the association between urban heat island and preterm birth: a nationwide cohort study in China. *Environment International*, 183: 108356, 2024. <https://doi.org/10.1016/j.envint.2023.108356>
- Groth, R., Niazi, S., Oswin, H.P., Haddrell, A.E., Spann, K., Morawska, L. and Ristovski, Z.D. Toward standardized aerovirology: a critical review of existing results and methodologies. *Environmental Science & Technology*, 58(8): 3595–3608, 2024. <https://doi.org/10.1021/acs.est.3c07275>
- Guo, L.-H., Lin, L.-Z., Zhou, Y., Jalaludin, B., Morawska, L., Dharmage, S.C., Knibbs, L.D., Huang, G.-F., Chen, D.-H., Ma, H., Gao, M., Heinrich, J., Zhou, P., Gui, Z.-H., Chu, C., Li, R.-L. and Dong, G.-H. Global, regional, and national burden of ischemic heart disease attributable to ambient PM_{2.5} from 1990 to 2019: An analysis for the global burden of disease study 2019. *Environmental Research*, 241: 117635, 2024. <https://doi.org/10.1016/j.envres.2023.117635>

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- Shahriar, G.M.H., Bodisco, T.A., Surawski, N., Komol, M.M.R., Sajjad, M., Chu-Van, T., Ristovski, Z. and Brown, R.J. Real-driving CO₂, NO_x and fuel consumption estimation using machine learning approaches. *Next Energy*, 1(4): 100060, 2023. <https://doi.org/10.1016/j.nxener.2023.100060>
- Mensah, G., and **Global CVD Diseases and Risks Special Issue Collaborators** inc. Morawska, L. Global burden of cardiovascular diseases and risks, 1990-2022. *Journal of American College of Cardiology*, 82(25): 2350-2473, 2023. <https://doi.org/10.1016/j.jacc.2023.11.007>
- Niazi, S., Groth, R., Morawska, L., Spann, K. and Ristovski, Z.D. Dynamics and Viability of Airborne Respiratory Syncytial Virus under Various Indoor Air Conditions. *Environment Science & Technology*, 57(51): 21558-21569, 2023. <https://doi.org/10.1021/acs.est.3c03455>

Arora, P., Verma, P., Zare, A., Lodi, F., Jafari, M., Stevanovic, S., Bodisco, T.A., Brown, R. and Ristovski, Z.D. Morphology and nanostructure of soot particles from diesel engine under transient and steady-state operating conditions with a microalgae fuel component, diethyl phthalate biofuel. *Sustainable Energy Technologies and Assessments*, 60: 103504, 2023. <https://doi.org/10.1016/j.seta.2023.103504>

Zare, A., Babaie, M., Shirneshan, A., Verma, P., Yang, L., Ristovski, Z.D., Brown, R.J., Bodisco, T. and Stevanovic, S. Hazardous particles during diesel engine cold-start and warm-up: Characterisation of particulate mass and number under the impact of biofuel and lubricating oil. *Journal of Hazardous Materials*, 460: 132516, 2023. <https://doi.org/10.1016/j.jhazmat.2023.132516>

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Wang, L., Wen, W., Gu, Y., Mao, J., Tong, X., Jia, B., Zhu, K., Bai, Z., Zhang, W., Shi, L., Chen, Y., Morawska, L., Chen, J. and Huang, L.-H. Characterization of Biodiesel and Diesel Combustion Particles: Chemical Composition, Lipid Metabolism, and Implications for Health and Environment. *Environmental Science & Technology*, 57(49): 20460-20469, 2023. <https://doi.org/10.1021/acs.est.3c04994>

Caracci, E., Stabile, L., Ferro, A., Morawska, L. and Buonanno, G. Respiratory particle emission rates from children during speaking activities. *Scientific Reports*. 13(1): 18294, 2023. <https://doi.org/10.1038/s41598-023-45615-0>

Yan, J., Jia, B., Zhu, K., Wen, W., Zhang, W., Bai, Z., Shi, L., Chen, Y., Morawska, L., Wang, L. and Chen, J. Impact of combustion-derived black carbon oxidation states on optical properties and cellular metabolomics in HeLa cells: Insights into soot organics. *Atmospheric Environment*, 314: 120118, 2023. <https://doi.org/10.1016/j.atmosenv.2023.120118>

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Wu, C., He, C., Brown, Z.E., Miljevic, B., Zhang, C., Wang, H., Wang, B., Morawska, L. and Ristovski, Z.D. Light absorption properties of black and brown carbon during the prescribed burning season at an urban background site in Brisbane, Australia. *Atmospheric Environment*, 313: 120072, 2023. <https://doi.org/10.1016/j.atmosenv.2023.120072>

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