Reference List

- 1. Smit, R., 2023. An analysis of an AMSA ship survey and comparison with the Maritime Transport Emission Model (MTEM), *Atmospheric Environment X*, 17, 100203, https://doi.org/10.1016/j.aeaoa.2023.100203.
- 2. Vander Hoorn, S., Johnson, J.S., Murray, K., Smit, R., Heyworth, J., Lam, S., Cope, M., 2022. Emulation of a Chemical Transport Model to Assess Air Quality under Future Emission Scenarios for the Southwest of Western Australia, *Atmosphere*, 13(12), 2009, https://doi.org/10.3390/atmos13122009. https://www.mdpi.com/2073-4433/13/12/2009.
- 3. Smit, R., Chu-Van, T., Suara, K., Brown, R.J., 2022. Comparing an energy-based ship emissions model with AIS and on-board emissions testing, *Atmospheric Environment X*, 16, 1-13, https://doi.org/10.1016/j.aeaoa.2022.100192.
- 4. Smit, R., 2022. An overview of real-world vehicle emission measurements in Australia, 26th International Clean Air and Environment Conference, 12-14 September 2022, Adelaide, Australia.
- 5. Smit, R., Awadallah, M., Bagheri, S., Surawski, N.C., 2022. Real-world emission factors for SUVs using on-board emission testing and geo-computation, *Transp. Res.-D*, 103286, 1-21, https://doi.org/10.1016/j.trd.2022.103286.
- 6. Smit, R., Kennedy, D.W., 2022, Greenhouse gas emissions performance of electric and fossil-fueled passenger vehicles with uncertainty estimates using a probabilistic life-cycle assessment, *Sustainability*, 14, 3444, 1-29, https://doi.org/10.3390/su14063444.
- 7. Smit, R., Bluett, J., Pearce, S., Van Vugt, A., Bagheri, S., 2022. *Improving our Understanding of New Zealand's Vehicle Fleet Greenhouse Gas and Harmful Emissions using Measured Emissions Data Stage 1*, Waka Kotahi NZ Transport Agency research report 687, ISBN 978-1-99-004446-5, https://www.nzta.govt.nz/resources/research/reports/687.
- 8. Quaassdorff, C., Smit, R., Borge, R., Hausberger, S., 2022. Comparison of microscale traffic emission models for urban networks, *Environ. Res. Lett.*, 17, 094030, https://iopscience.iop.org/article/10.1088/1748-9326/ac8b21.
- 9. Smit, R., 2021. Australia has some way to go... (Editorial), *Air Quality and Climate Change*, 55 (1), March 2021, 7-8.
- 10. Smit, R., 2021. A probabilistic life cycle assessment comparing greenhouse gas emissions from electric and fossil-fuelled vehicles in Australia, *Air Quality and Climate Change*, 55 (1), March 2021, 36-37.
- 11. Smit, R., 2021. Electric passenger vehicles reduce non-exhaust PM emissions, *Air Quality and Climate Change*, 55 (1), March 2021, 7-8.
- 12. Smit, R., Bainbridge, S., Kennedy, D., Kingston, P. 2021. A decade of measuring on-road vehicle emissions with remote sensing in Australia, *Atmospheric Environment*, 252, 1 May 2021, 118317, https://doi.org/10.1016/j.atmosenv.2021.118317.
- 13. TER, 2020. Meeting our Greenhouse Gas Emission Targets: Can Electric Vehicles Meet the Challenge? A Probabilistic Life Cycle Assessment (LCA) for GHG Emissions from Australian Passenger Vehicles, Robin Smit, Transport Energy/Emission Research (TER), 5 December 2020.
- 14. Smit, R., 2020. Does implementation date matter? Euro six vehicle emission standards in Australia A case study, *Air Quality and Climate Change*, 54 (3), September 2020, 12-14.
- 15. TER, 2020. Non-Exhaust PM Emissions from Battery Electric Vehicles (BEVs) Does the Argument against Electric Vehicles Stack Up?, Robin Smit, Transport Energy/Emission Research (TER), 8 July 2020.
- 16. TER, 2020. *Motor Vehicle Engine Idling in Australia A Critical Review and Initial Assessment,* Robin Smit, Transport Energy/Emission Research (TER), 12 June 2020.

- 17. Smit, R., Kennedy, D., 2020. Measuring on-road vehicle hot running NO_x emissions with a combined remote sensing—dynamometer study, *Atmosphere*, 11 (294), 1-17, doi:10.3390/atmos11030294.
- 18. Smit, R, Kingston, P., Neale, D.W., Brown, M.K., Verran, B., Nolan, T., 2019. Monitoring onroad air quality and measuring vehicle emissions with remote sensing in an urban area, *Atmospheric Environment*, 218, 1-13, https://doi.org/10.1016/j.atmosenv.2019.116978.
- 19. Smit, R., Kingston, P., 2019. Measuring on-road vehicle emissions with multiple instruments including remote sensing, *Atmosphere*, 10 (516), 1-17, doi:10.3390/atmos10090516.
- 20. TER, 2019. Real-World CO₂ Emissions Performance of the Australian New Passenger Vehicle Fleet 2008-2018 Impacts of Trends in Vehicle/Engine Design, Robin Smit, Transport Energy/Emission Research (TER), 14 September 2019.
- 21. Smit, R., Cope, M., Knibbs, L., 2019. Building an Australian national motor vehicle inventory for air pollution population exposure assessment, *Air Quality and Climate Change*, 53 (2), June 2019, 7-11.
- 22. TER, 2019. Vehicle CO₂ Emissions Legislation in Australia A Brief History in an International Context, Robin Smit, Transport Energy/Emission Research (TER), 26 May 2019.
- 23. Wong, C.K.L., Lo, T.S., Wong, H.L.A, Lam, K.L., Frey, H.C., Smit, R., Hausberger, S., Weller, K., Ntziachristos, L., 2019., Microscale vehicle emission modelling in Hong Kong, *23rd Transport and Air Pollution Conference*, 15-17 May 2019, Thessaloniki, Greece.
- 24. Smit, R., Keramydas, C., Ntziachristos, L., Lo, T.S., Ng, K.L., Wong, H.L.A., Wong, C., 2019. Evaluation of real-world gaseous emissions performance of SCR and DPF bus retrofits, *Environmental Science & Technology*, 53 (8), 4440-4449.
- 25. Smit, R., Khan, F., 2019. Shipping fuel consumption and emissions modelling in fourteen port areas, 23rd Transport and Air Pollution Conference, 15-17 May 2019, Thessaloniki, Greece.
- 26. Smit, R., Bainbridge, S., Kingston, P., Brown, M.K., Shaw, G., 2019. Multi-instrument enhancement of remote sensing on-road vehicle emissions measurements, *23rd Transport and Air Pollution Conference*, 15-17 May 2019, Thessaloniki, Greece.
- 27. Smit, R., Kingston, P., 2019. Detecting cold start vehicles in the on-road fleet, *Air Quality and Climate Change*, 53 (1), March 2019, 22-26.
- 28. Whitehead, J., Smit, R., Washington, S., 2018. Why battery-powered vehicles stack up better than hydrogen, *The Conversation*, http://theconversation.com/why-battery-powered-vehicles-stack-up-better-than-hydrogen-106844.
- 29. Smit, R., Whitehead, J., Washington, S., 2018. Where are we heading with electric vehicles?, *Air Quality and Climate Change*, 52 (3), September 2018, 18-27.
- 30. Smit, R., Militon, A., 2017. Simulation of ship emissions at a high spatial and temporal resolution, *CASANZ 2017 Conference*, Brisbane, 15-18 October 2017.
- 31. Quaassdorff, C., Smit, R., Borge, R., Hickman, M., 2017. Comparison of microscale traffic emission models for urban networks, *CASANZ 2017 Conference*, Brisbane, 15-18 October 2017.
- 32. Smit, R., Kingston, P., Wainwright, D., Tooker, R., 2017. A tunnel study to validate motor vehicle emission prediction software in Australia, *Atmospheric Environment*, 151, 188-199.
- 33. Katsis, P., Smit, R., Ntziachristos, L., Lo, T.S., Wong, C., 2016. Quality assurance of PEMS emissions data aimed for the development of real-world emission factors, *21*st *Transport and Air Pollution Conference*, 24-26 May 2016, Lyon, France.
- 34. Smit, R., Kingston, P., Tooker, R., Neale, D., Torr, S., Harper, R., O'Brien, E., Harvest, D., Wainwright, D., 2015. A Brisbane tunnel study to assess the accuracy of Australian motor vehicle emission models and examine the main factors affecting prediction errors, *Air Quality and Climate Change*, 49 (3), August 2015, 35-41.

- 35. Smit, R., Kingston, P., 2015. A Brisbane tunnel study to validate Australian motor vehicle emission models, *SAE Technical Paper*, 2015-01-0058.
- 36. Smit, R., Kingston, P., 2015. A tunnel study to validate Australian motor vehicle emission software, *CASANZ 2015 Conference*, Melbourne, 20-23 September 2015.
- 37. Cravigan, L.T., Smit, R., 2015. Updated emissions estimation method for diesel non-road vehicles and equipment, *Air Quality and Climate Change*, 49 (4), November 2015, 39-45.
- 38. Smit, 2014. *Australian Motor Vehicle Emission Inventory for the National Pollutant Inventory (NPI)*, Prepared for the Department of Environment, UniQuest Project No. C01772, 2 August 2014, http://www.npi.gov.au/resource/australian-motor-vehicle-emission-inventory-national-pollutant-inventory-npi.
- 39. Smit, R., 2014. Estimation of road transport emissions for Australia, 26th ARRB Conference Research driving efficiency, Sydney, New South Wales, 19-22 October 2014.
- 40. Smit, R., Greaves, S., Allison, A., 2014. Assessing emission benefits of driver behaviour change programs using GPS and high resolution vehicle emission modelling, 20th Transport and Air Pollution Conference, 18-19 September 2014, Graz, Austria.
- 41. Smit, R., Allison, A., Greaves, S., The use of GPS and high resolution vehicle emission modeling to assess environmental benefits of driver behavior change programs, *26th ARRB Conference Research driving efficiency*, Sydney, New South Wales, 19-22 October 2014.
- 42. Smit, R., 2014. Assessing tunnel emissions with Australian emissions software (Poster), 20th Transport and Air Pollution Conference, 18-19 September 2014, Graz, Austria.
- 43. Smit, R., 2014. P Δ P: A simulation tool for vehicle emissions and fuel consumption software with a high resolution in time and space, *Vehicle Technology Engineer*, SAE Australasia, July 2014, 17-21.
- 44. Akçelik, R., Smit, R., Besley, M., 2014. Recalibration of a Vehicle Power Model for Fuel and Emission Estimation and its Effect on Assessment of Alternative Intersection Treatments, 4th International Roundabout Conference, Transportation Research Board, Seattle, WA, USA, 16-18 April 2014.
- 45. Smit, R., 2013. Development and performance of a new vehicle emissions and fuel consumption software (P Δ P) with a high resolution in time and space, Atmospheric Pollution Research, 4, 336-345.
- 46. Smit, R., Casas, J., Torday. A., 2013. Simulating fuel consumption and vehicle emissions in an Australian context, *Australasian Transport Research Forum 2013 Proceedings*, 2 4 October 2013, Brisbane, Australia.
- 47. Smit, R., Ntziachristos, L., 2013. COPERT Australia: a new software to estimate vehicle emissions in Australia, *Australasian Transport Research Forum 2013 Proceedings*, 2 4 October 2013, Brisbane, Australia.
- 48. Boulter, P., Smit, R., 2013. The effects of intelligent transport systems on CO₂ emissions an Australia perspective, *CASANZ 2013 Conference*, Sydney, 7-11 September 2013.
- 49. Mellios, G., Smit, R., Ntziachristos, L., 2013. Evaporative emissions: developing Australian emission algorithms, *CASANZ 2013 Conference*, Sydney, 7-11 September 2013.
- 50. Ntziachristos, L., Samaras, C., Smit, R., Tooker, T., Mellios, G., 2013. Air pollutant and greenhouse gas road transport inventory using COPERT Australia, *CASANZ 2013 Conference*, Sydney, 7-11 September 2013.
- 51. Smit, R., 2013. A procedure to verify large modal vehicle emissions databases, CASANZ 2013 Conference, Sydney, 7-11 September 2013.
- 52. Smit, R., Ntziachristos, L., 2013. Cold start emission modelling for the Australian petrol fleet, *Air Quality and Climate Change*, 47 (3), 31-39.

- 53. Smit, R., Ntziachristos, L., 2012. COPERT Australia: developing improved average speed vehicle emission algorithms for the Australian Fleet, 19th International Transport and Air Pollution Conference, Thessaloniki, Greece, 26-27 November 2012.
- 54. Akçelik, R., Smit, R., Besley, M, 2012. Calibrating fuel consumption and emission models for modern vehicles, *IPENZ Transportation Group Conference*, Rotorua, New Zealand, March 2012.
- 55. Smit, R., 2011. Simulation of vehicle emission factors for cold start conditions: an initial examination of modal data and a new method, *International Clean Air Conference*, 31 July 2 August 2011, Auckland, New Zealand.
- 56. Smit, R., Bluett, J., 2011. A new method to compare vehicle emissions measured by remote sensing and laboratory testing: High-emitters and potential implications for emission inventories, *Science of the Total Environment*, 409, 2626–2634.
- 57. Smit, R., McBroom, J., 2010. Application of a New Hybrid Traffic Emissions Tool with a High Resolution in Time and Space: Impacts of Congestion, *24th ARRB Conference*, Melbourne, Australia, 12-15 October 2010, ISBN 1 876592 63 X.
- 58. Smit, R., Rose, G., Symmons, M., 2010. Assessing the impacts of ecodriving on fuel consumption and emissions for the Australian situation, 33rd Australasian Transport Research Forum (ATRF 2010), 29 Sep 1 Oct 2009, Canberra, Australia.
- 59. Dia, H., Smit, R., Morawska, L., 2010. Future Trends in Modelling Road-Based Air Pollutant Emissions and Fuel Consumption, *AITPM 2010 National Conference*, Brisbane, 21-23 July 2010.
- 60. Smit, R., Ntziachristos, L, Boulter, P., 2010. Validation of road vehicle and traffic emission models a review and meta-analysis, *Atmospheric Environment*, 44 (25), 2943-2953.
- 61. Smit, R., McBroom, J., 2009. Development of a new high resolution traffic emissions and fuel consumption model, *Road and Transport Research*, 18 (4), 3-13.
- 62. Smit, R., McBroom, J., 2009. Use of overseas emission models to predict traffic emissions in urban areas Technical Note, *Road and Transport Research*, 18 (3), 52-60.
- 63. Smit, R., McBroom, J., 2009. Use of microscopic simulation models to predict traffic emissions Technical Note, *Road and Transport Research*, 18 (2), 49-54.
- 64. Smit, R., McBroom, J., 2009. Development of a new traffic emissions and fuel consumption model with a high resolution in time and space, 32nd Australasian Transport Research Forum (ATRF 2009), 29 Sep 1 Oct 2009, Auckland, New Zealand.
- 65. Smit, R., McBroom, J., 2009. Development of a new high resolution traffic emissions and fuel consumption model for Australia and New Zealand model application, *Air Quality and Climate Change*, 43 (4), 14-16.
- 66. Smit, R., McBroom, J., 2009. Development of a new high resolution traffic emissions and fuel consumption model for Australia and New Zealand why is it needed?, *Air Quality and Climate Change*, 43 (1), 14-16.
- 67. Smit, R., McBroom, J., 2009. Development of a new high resolution traffic emissions and fuel consumption model for Australia and New Zealand data quality considerations, *Air Quality and Climate Change*, 43 (2), 13-16.
- 68. Smit, R., McBroom, J., 2009. Development of a new high resolution traffic emissions and fuel consumption model for Australia and New Zealand model structure, *Air Quality and Climate Change*, 43 (3), 16-18.
- 69. Smit, R., Dia, H., Morawska, L., 2009. *Road Traffic Emission and Fuel Consumption Modelling: Trends, New Developments and Future Challenges*, in 'Traffic Related Air Pollution and Internal Combustion Engines', Demidov, S. and Bonnet, J. (Eds.), Nova Publishers, U.S.A.

- 70. Smit, R., 2008. Errors in model predictions of NOx traffic emissions at road level Impacts of input data quality, *Air Pollution XVI*, 116, eds. Brebbia, C.A., Longhurst, J.W.S., WIT Press, ISBN 978 1 84564 127 6, 255-269.
- 71. Smit, R., 2008. Developments in road traffic emission and fuel consumption modelling: some recent experiences from Europe, *Clean Air and Environmental Quality*, 42 (3), 18-21.
- 72. Smit, R., Brown, A.L., Chan, Y.C., 2008. Do air pollution emissions and fuel consumption models for roadways include the effects of congestion in the roadway traffic flow?, *Environmental Modelling & Software*, 23 (10), 1262-1270.
- 73. Smit, R., Poelman, M. & Schrijver, J., 2008. Improved road traffic emission inventories by adding mean speed distributions, *Atmospheric Environment*, 42 (5), 916-926.
- 74. Smit, R., Smokers, R., Rabé, E., 2007. A new modelling approach for road traffic emissions: VERSIT+, *Transp. Res.-D*, 12, 414-422.
- 75. Smit, R., 2006. An Examination of Congestion in Road Traffic Emission Models and Their Application to Urban Road Networks, Ph.D. dissertation, Griffith University, Brisbane, Australia.
- 76. Smit, R., Smokers, R., Schoen, E., 2005. VERSIT+ LD: Development of a new emission factor model for passenger cars linking real-world emissions to driving cycle characteristics, 14th Transport and Air Pollution Conference, Graz, Austria, 177-186.
- 77. Smit, R., Zeise, K., Caffin, A., Anyon P., 2004. *Dioxins Emissions from Motor Vehicles in Australia*, National Dioxins Program Technical Report No. 2, Australian Government Department of the Environment and Heritage, Canberra, ISBN 0 642 54994 X, http://www.environment.gov.au/settlements/publications/chemicals/dioxins/report-2/index.html.
- 78. Smokers, R., Smit, R., 2004. *Compatibility of Pure and Blended Biofuels with Respect to Engine Performance, Durability and Emissions*, SenterNovem Report 2GAVE04.01, https://www.cti2000.it/Bionett/ALL-2004-102%20Compatability%20of%20biofuels%20with%20engine%20performan.pdf
- 79. Pekol, A., Anyon, P., Hulbert, M., Smit, R., Ormerod, R., Ischtwan, J., 2003. South East Queensland motor vehicle fleet air emissions inventory 2000, 2005, 2011, *Proceedings of National Clean Air Conference*, Newcastle, Australia.
- 80. Smit, R., Bawden, K., Ormerod, R., 2002. Speciated hydrocarbon emissions from road traffic, *16th Clean Air and Environment Conference*, Christchurch, New Zealand, 746-757.
- 81. Smit, R., Ormerod, R., Bridge, I., 2002. Vehicle emission models and their application emission inventories, *Clean Air and Environmental Quality*, 36 (1), 30-34.