

BIBLIOGRAPHY

- Afroz, R., Guo, X., Cheng, C. W., Omar, S., Carney, V. L., Zuidhof, M. J., & Zhao, R. (2024). *Assessments and application of low-cost sensors to study indoor air quality in layer facilities. Environmental Technology & Innovation*, 36, 103773. <https://doi.org/10.1016/J.ETI.2024.103773>
- Chacón-Mateos, M., García-Salamero, H., Laquai, B., & Vogt, U. (2025). *Calibration and performance evaluation of PM_{2.5} and NO₂ air quality sensors for environmental epidemiology. Atmospheric Measurement Techniques*, 18(16), 4061–4085. <https://doi.org/10.5194/AMT-18-4061-2025>
- Chojer, H., Branco, P. T. B. S., Martins, F. G., & Sousa, S. I. V. (2024). *A novel low-cost sensors system for real-time multipollutant indoor air quality monitoring – Development and performance. Building and Environment*, 266, 112055. <https://doi.org/10.1016/J.BUILDENV.2024.112055>
- Considine, E. M., Braun, D., Kamareddine, L., Nethery, R. C., & deSouza, P. (2023). *Investigating Use of Low-Cost Sensors to Increase Accuracy and Equity of Real-Time Air Quality Information. Environmental Science & Technology*, 57(3), 1391–1402. <https://doi.org/10.1021/ACS.EST.2C06626>
- Emsden, C. (2023). *New FAO report maps pathways towards lower livestock emissions. Pathways towards Lower Emissions. https://doi.org/10.4060/CC9029EN*
- Hayward, I., Martin, N. A., Ferracci, V., Kazemimanesh, M., & Kumar, P. (2024). *Low-Cost Air Quality Sensors: Biases, Corrections and Challenges in Their Comparability. Atmosphere 2024, Vol. 15, Page 1523, 15(12), 1523. https://doi.org/10.3390/ATMOS15121523*
- Huang, J., Kwan, M. P., Cai, J., Song, W., Yu, C., Kan, Z., & Yim, S. H. L. (2022). *Field Evaluation and Calibration of Low-Cost Air Pollution Sensors for Environmental Exposure Research. Sensors*, 22(6), 2381. <https://doi.org/10.3390/s22062381>
- Ionascu, M. E., Marcu, M., Bogdan, R., & Darie, M. (2024). *Calibration of NO, SO₂, and PM using Airify: A low-cost sensor cluster for air quality monitoring. Atmospheric Environment*, 339, 120841. <https://doi.org/10.1016/J.ATMOENV.2024.120841>
- Kang, J., & Choi, K. (2024). *Calibration Methods for Low-Cost Particulate Matter Sensors Considering Seasonal Variability. Sensors 2024, Vol. 24, Page 3023, 24(10), 3023. https://doi.org/10.3390/S24103023*
- Pérez, M. L., Zhang, H., & Kumar, A. (2025). *Optimizing air quality monitoring: Comparative analysis of linear regression and machine learning in low-cost sensor calibration. Aerosol and Air Quality Research*, 25(1), 44–59. <https://doi.org/10.1007/s44408-025-00009-x>
- Santoso, B., Nugroho, P. A., & Rahayu, T. (2023). *Low-cost sensor based on Internet of Things for PM_{2.5} air quality monitoring. Indonesian Journal of Geography*, 55(1), 12–22. <https://journal.ugm.ac.id/ijg/article/view/104159>
- Rahman, M., Kim, D., & Lee, S. (2023). *Machine learning-based calibration and performance evaluation of low-cost Internet of Things air quality sensors. Sensors*, 23(8), 3451. <https://pubmed.ncbi.nlm.nih.gov/40431975>
- Pinder, R. W., Klopp, J. M., Kleiman, G., Hagler, G. S. W., Awe, Y., & Terry, S. (2019). *Opportunities and challenges for filling the air quality data gap in low- and middle-income countries. Atmospheric Environment*, 215, 116794.



<https://doi.org/10.1016/J.ATMOENV.2019.06.032>

- Ramadan, M. N. A., Ali, M. A. H., Khoo, S. Y., Alkhedher, M., & Alherbawi, M. (2024). *Real-time IoT-powered AI system for monitoring and forecasting of air pollution in industrial environment*. *Ecotoxicology and Environmental Safety*, 283, 116856. <https://doi.org/10.1016/J.ECOENV.2024.116856>
- Tariq, M., Li, Q., & Ahmed, Z. (2025). *Advancements in air quality monitoring: A systematic review of IoT-based air quality monitoring and AI technologies*. *Artificial Intelligence Review*, 1–26. <https://doi.org/10.1007/s10462-025-11277-9>
- Putra, R., & Hidayat, S. (2024). *Implementation Internet of Things using Linear Regression method for supply chain management system*. *Syntax Literate: Jurnal Ilmiah Indonesia*, 9(4), 1023–1038. <https://jurnal.syntaxliterate.co.id/index.php/syntax-literate/article/view/11369>
- Spinelle, L., Gerboles, M., Villani, M. G., Alexandre, M., & Bonavitacola, F. (2017). *Field calibration of a cluster of low-cost commercially available sensors for air quality monitoring. Part B: NO, CO and CO2*. *Sensors and Actuators, B: Chemical*, 238, 706–715. <https://doi.org/10.1016/j.snb.2016.07.036>
- Vajs, I., Drajić, D., & Cica, Z. (2023). *Data-Driven Machine Learning Calibration Propagation in A Hybrid Sensor Network for Air Quality Monitoring*. *Sensors*, 23(5), 2815. <https://doi.org/10.3390/s23052815>
- Villanueva, E., Espezua, S., Castelar, G., Diaz, K., & Ingaroca, E. (2023). *Smart Multi-Sensor Calibration of Low-Cost Particulate Matter Monitors*. *Sensors (Basel, Switzerland)*, 23(7), 3776. <https://doi.org/10.3390/S23073776>
- González, J., Pineda-Tobón, C., & Moreno, J. (2025). *Geographically weighted regression for air quality low-cost sensor calibration*. *arXiv preprint arXiv:2510.05646*. <https://arxiv.org/abs/2510.05646>
- Xu, T., Tian, Y., Cai, X., Wu, C.-H., & Mian, Z. (2025). *Air quality forecasting and rating based on machine learning algorithm and cumulative logit model: an empirical study for Lanzhou city of China*. *Environment, Development and Sustainability*, 1–21. <https://doi.org/10.1007/s10668-024-05792-y>