

DAFTAR PUSTAKA

- Alaska Department of Environmental Conservation (ADEC), 2009. Surface Parameter Geometric Mean (Rev. 2). ADEC, Division of Air Quality, Juneau, AK.
- Arauz-Torres, M.A., 2014. Modelling H₂S dispersion from San Jacinto-Tizate geothermal power plant, Nicaragua. United Nations University Geothermal Training Programme, Reykjavik, Iceland.
- Assegaf, A., 2018. Gas dispersion modeling from the chimney power plant Pasquil-Gaussian model. *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan*.
- Augusto, M.R., Campos, B., Carvalho, V.S.B., Calheiros, H.C., 2019. Modeling of H₂S dispersion in Brazil with Aermoc: case study of Water Resource Recovery Facility in South of Brazil. *Revista Brasileira de Meteorologia* 34(4), 497–504. <https://doi.org/10.1590/0102-7786344063>
- Ausma, T., De Kok, L.J., 2019. Atmospheric H₂S: impact on plant functioning. *Frontiers in Plant Science* 10, Article 743.
- Badan Meteorologi, Klimatologi, dan Geofisika, 2025. Prediksi Musim Hujan 2025/2026 di Indonesia. BMKG, Jakarta.
- Badan Standardisasi Nasional, 2005a. SNI 19-7119.6-2005 Emisi sumber tidak bergerak—Bagian 6: Penentuan lokasi titik pengambilan contoh. BSN, Jakarta.
- Badan Standardisasi Nasional, 2005b. SNI 19-7119.9-2005 Emisi sumber tidak bergerak—Bagian 9: Penentuan kadar hidrogen sulfida (H₂S). BSN, Jakarta.
- Badan Standardisasi Nasional, 2007. RSNI 19-7119.11:2007 Udara ambien—Bagian 11: Cara uji kadar hidrogen sulfida (H₂S) udara ambien dengan metode biru metilen secara spektrofotometri. BSN, Jakarta.
- Chan, Y.H., Lock, S.S.M., Wong, M.K., Yiin, C.L., Loy, A.C.M., Cheah, K.W., Chai, S.Y.W., Li, C., How, B.S., Chini, B.L.F., Chan, Z.P., Lam, S.S., 2022. A state-of-the-art review on capture and separation of hazardous hydrogen sulfide (H₂S): recent advances, challenges and outlook. *Environmental Pollution* 314, 120219. <https://doi.org/10.1016/j.envpol.2022.120219>
- Chang, C.-P., Wang, Z., McBride, J., Liu, C.-H., 2005. Annual cycle of Southeast Asia---Maritime Continent rainfall and the asymmetric monsoon transition. *Journal of Climate* 18(2), 287–301. <https://doi.org/10.1175/JCLI-3257.1>
- Cichowicz, R., Wielgosiński, G., Fetter, W., 2017. Dispersion of atmospheric air pollution in summer and winter season. *Environmental Monitoring and Assessment* 189(12), 605. <https://doi.org/10.1007/s10661-017-6319-2>
- Cimorelli, A.J., Perry, S.G., Venkatram, A., Weil, J.C., Paine, R.J., Wilson, R.B., Lee, R.F., Peters, W.D., Brode, R.W., 2005. AERMOD: a dispersion model for industrial source applications. Part I: general model formulation and boundary layer characterization. *Journal of Applied Meteorology* 44(5), 682–693. <https://doi.org/10.1175/JAM2227.1>

Cooper, C.D., Alley, F.C., 1994. *Air Pollution Control: A Design Approach*. Waveland Press, Illinois.

Environmental Protection Agency (EPA), 2004. *AERMOD: Description of Model Formulation (EPA-454/R-03-004)*. U.S. EPA, Research Triangle Park, NC.

Giovannini, L., Ferrero, E., Karl, T., Rotach, M.W., Staquet, C., Trini Castelli, S., Zardi, D., 2020. Atmospheric pollutant dispersion over complex terrain: challenges and needs for improving air quality measurements and modeling. *Atmosphere* 11(6), 646. <https://doi.org/10.3390/atmos11060646>

Gokcen, G., Yildirim, N., 2008. Effect of non-condensable gases on geothermal power plant performance. Case study: Kizildere Geothermal Power Plant-Turkey. *International Journal of Exergy* 5, 684. <https://doi.org/10.1504/IJEX.2008.020832>

Govindaraju, M., Ganeshkumar, R. S., Muthukumar, V. R., & Visvanathan, P., 2012. Identification and evaluation of air-pollution-tolerant plants around lignite-based thermal power station for greenbelt development. *Environmental Science and Pollution Research*, 19(4), 1210–1223.

Goyal, P., Kumar, A., 2006. Assimilative capacity and pollutant dispersion studies for Gangtok city. *Atmospheric Environment* 40(9), 1671–1682. <https://doi.org/10.1016/j.atmosenv.2005.10.057>

Goyal, S.K., Rao, C., 2007. Assessment of atmospheric assimilation potential for industrial development in an urban environment: Kochi (India). *Science of the Total Environment*.

Gubernur Jawa Barat, 1982. Surat Keputusan Gubernur Jawa Barat Nomor 660.31/SK/694/BKMPD/82 tentang Tata Cara Pengendalian dan Kriteria Pencemaran Lingkungan Akibat Industri (Lampiran IIA: Daftar Kriteria Kualitas Udara). Pemerintah Provinsi Jawa Barat, Bandung.

Guilford, J.P., 1973. *Fundamental Statistics in Psychology and Education*, 5th ed. McGraw-Hill, New York.

Haq, A.U., Nadeem, Q., Farooq, A., Irfan, N., Ahmad, M., Ali, M.R., 2019. Assessment of AERMOD modeling system for application in complex terrain in Pakistan. *Atmospheric Pollution Research* 10(5), 1492–1497. <https://doi.org/10.1016/j.apr.2019.04.006>

Heckel, P.F., LeMasters, G.K., 2011. The use of AERMOD air pollution dispersion models to estimate residential ambient concentrations of elemental mercury. *Water, Air, & Soil Pollution* 219, 377–388. <https://doi.org/10.1007/s11270-010-0714-4>

Hendardi, 2024. *Analisis Dispersi Paparan Emisi Gas H₂S dan SO₂ di Kawasan Dataran Tinggi Dieng*.

Hersbach, H., Bell, B., Berrisford, P., Hirahara, S., Horányi, A., Muñoz-Sabater, J., Nicolas, J., Peubey, C., Radu, R., Schepers, D., Simmons, A., Soci, C., Abdalla, S., Abellan, X., Balsamo, G., Bechtold, P., Biavati, G., Bidlot, J., Bonavita, M., ... Thépaut, J.-N., 2020.

- Irawan, A., Peniwidiyanti, Ainurrofiah, Destrianto, H., Kusumah, M., & Apriandana, V., 2023. Floristic composition and structure of vegetation in Gunung Salak geothermal power plant, West Java, Indonesia. *Reinwardtia*, 22(1), 37–53.
- Jakarta, 2026. Potensi Geotermal Indonesia Besar, Investor Masih Terhambat Regulasi dan Tarif. Jakarta, 22 Mei 2026. <https://www.jakarta.com/2026/05/potensi-geotermal-indonesia-besar.html>
- Kementerian Ketenagakerjaan Republik Indonesia, 2018. Peraturan Menteri Ketenagakerjaan Republik Indonesia Nomor 5 Tahun 2018 tentang Keselamatan dan Kesehatan Kerja Lingkungan Kerja. Kemnaker RI, Jakarta.
- Khoirunissa, I., 2011. Hydrogen sulphide dispersion for Hellisheidi and Nesjavellir geothermal power plants, SW-Iceland using AERMOD. Reykjavik, Iceland.
- Leontidis, V., Niknam, P.H., Durgut, I., Talluri, L., Manfrida, G., Fiaschi, D., Akin, S., Gainville, M., 2023. Modelling reinjection of two-phase non-condensable gases and water in geothermal wells. *Applied Thermal Engineering* 223, 120018. <https://doi.org/10.1016/j.applthermaleng.2023.120018>
- Linarka, U.A., Tambunan, M.P., Kusratmoko, E., Latifah, A.L., 2025. Assessing the spatiotemporal precipitation trends from ERA5-Land over Indonesia region. *IOP Conference Series: Earth and Environmental Science* 1438(1), 012046. <https://doi.org/10.1088/1755-1315/1438/1/012046>
- Lothongkum, A. W., Seangkiatiyuth, K., & Surapipith, V., 2008. Measuring of Particulate Dispersion from the Cement Plants. *Better Air Quality*.
- Lu, C., Deng, Q., Liu, W., Huang, B., & Shi, L., 2012. Characteristics of ventilation coefficient and its impact on urban air pollution. *Journal of Central South University*, 19(3), 615–622. <https://doi.org/10.1007/s11771-012-1047-9>
- Michanowicz, D.R., Shmool, J.L., Tunno, B.J., Tripathy, S., Gillooly, S., Kinnee, E., Clougherty, J.E., 2016. A hybrid land use regression/AERMOD model for predicting intra-urban variation in PM_{2.5}. *Atmospheric Environment* 131, 307–315. <https://doi.org/10.1016/j.atmosenv.2016.01.045>
- Montgomery, D.C., 2017. *Design and Analysis of Experiments*, 9th ed. John Wiley & Sons, New York.
- Moreno-Silva, C., Calvo, D., Torres, N., Ayala, L., 2020. Hydrogen sulphide emissions and dispersion modelling from a wastewater reservoir using flux chamber measurements and AERMOD® simulations. *Atmospheric Environment* 224(6), 117263. <https://doi.org/10.1016/j.atmosenv.2020.117263>
- Moya, D., Aldás, C., & Kaparaju, P., 2018. Geothermal energy: Power plant technology and direct heat applications. *Renewable and Sustainable Energy Reviews*, 94, 889–901.
- Mubarok, M. H., Cahyono, Y. D., Patangke, S., & Siahaan, E. E., 2015. A statistical analysis for comparison between lip pressure and separator in production well testing at

- Mulsandi, A., Koesmaryono, Y., Hidayat, R., Faqih, A., Sopaheluwakan, A., 2024. Detecting Indonesian monsoon signals and related features using space-time singular value decomposition (SVD). *Atmosphere* 15, 187. <https://doi.org/10.3390/atmos15020187>
- Munn, R.E., 1969. Pollution wind-rose analysis. *Atmosphere* 7, 97–105. <https://doi.org/10.1080/00046973.1969.9676573>
- Peraturan Presiden Republik Indonesia, 2017. Peraturan Presiden Nomor 22 Tahun 2017 tentang Rencana Umum Energi Nasional. Sekretariat Negara RI, Jakarta.
- Putranto, 2017. Analisis Dispersi H₂S dan NH₃ dari Emisi Pembangkit Listrik Tenaga Panas Bumi dan Dampaknya Terhadap Kualitas Udara Sekitar (Studi Kasus: PT Pertamina Geothermal Energy Area Kamojang).
- Raharjo, M. H. F. Y., Lukito, I. S., Martarizal, Sail, A., & Soekirno, S., 2025. A comparative analysis of air temperature data from automatic weather station and ERA5-Land reanalysis in Java. *Journal of Physics: Conference Series*, 2989(1), 012030.
- Schober, P., Schwarte, L.A., 2018. Correlation coefficients: appropriate use and interpretation. *Anesthesia & Analgesia* 126, 1763–1768. <https://doi.org/10.1213/ANE.0000000000002864>
- Seinfeld, J.H., 2016. *Atmospheric Chemistry and Physics: From Air Pollution to Climate Change*. John Wiley & Sons, Hoboken.
- Setiabudi, 2024. Simulasi Dispersi Konsentrasi Gas Hidrogen Sulfida dari Pembangkit Listrik Tenaga Panas Bumi di Wilayah Garut dan Tasikmalaya, Jawa Barat.
- Singh, G., dkk., 2015. Estimation of assimilative capacity of the airshed in iron ore mining region of Goa. *Indian Journal of Science and Technology*.
- Sofyan, A., Bujang, Y. D. G., & Dewi, D. C., 2023. Analysis of the Z well production test using the horizontal lip pressure method at PT. Pertamina Geothermal Energy Ulubelu area. *Indonesian Journal of Energy and Mineral*, 3(1), 40–55. <https://doi.org/10.53026/IJoEM/2023/3.1/1038>
- Stull, R.B., 1988. *An Introduction to Boundary Layer Meteorology*. Kluwer Academic Publishers, Dordrecht.
- Suryani, R., Dwika, R. T., Ivana, J., Putri, J. N. A., Cahyati, A. P., Eltassa, A. F. N., Budi, A. S., Khudori, M., Sani, A., Cahya, Y., Irnanda, D., & Sukmono, F., 2024. Karaha growth: Sustainable practices for green energy. PT Sucofindo.
- Tang, G., Zhang, Jinqiang, Zhu, X., Song, T., Munkel, C., Hu, B., Schäfer, K., Liu, Z., Zhang, Junke, Wang, L., Xin, J., Suppan, P., Wang, Y., 2016. Mixing layer height and its implications for air pollution over Beijing, China. *Atmospheric Chemistry and Physics* 16, 2459–2475. <https://doi.org/10.5194/acp-16-2459-2016>

- Taylor, K.E., 2001. Summarizing multiple aspects of model performance in a single diagram. *Journal of Geophysical Research: Atmospheres* 106, 7183–7192. <https://doi.org/10.1029/2000JD900719>
- Tetzner, D., Thomas, E., & Allen, C., 2019. A validation of ERA5 reanalysis data in the Southern Antarctic Peninsula—Ellsworth Land region, and its implications for ice core studies. *Geosciences*, 9(7), 289.
- The, J., & Hilverda, M., 2003. Proposed Guidance For Air Dispersion Modelling. Ontario: Lakes Environmental Consultants Inc.
- Turtós Carbonell, L., Sanchez Gacita, M., Rivero Oliva, J.J., Curbelo Garea, L., 2010. Methodological guide for implementation of the AERMOD system with incomplete local data. *Atmospheric Pollution Research* 1(2), 102–111. <https://doi.org/10.5094/APR.2010.013>
- U.S. Environmental Protection Agency (EPA), 2000. Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA-454/R-99-005). U.S. EPA, Research Triangle Park, NC.
- U.S. Environmental Protection Agency (EPA), 2017. Guideline on Air Quality Models (40 CFR Part 51, Appendix W). U.S. EPA, Washington, DC.
- Vanella, D., Longo-Minnolo, G., Belfiore, O. R., Ramírez-Cuesta, J. M., Pappalardo, S., Consoli, S., D’Urso, G., Chirico, G. B., Coppola, A., Comegna, A., Toscano, A., Quarta, R., Provenzano, G., Ippolito, M., Castagna, A., & Gandolfi, C. (2022). Comparing the use of ERA5 reanalysis dataset and ground-based agrometeorological data under different climates and topography in Italy. *Journal of Hydrology: Regional Studies*, 42, 101182.
- Wark, K., Warner, C.F., 1981. *Air Pollution: Its Origin and Control*, 2nd ed. Harper & Row, New York.
- Wheeler, M.C., McBride, J.L., 2005. Australian-Indonesian monsoon, dalam: *Intraseasonal Variability in the Atmosphere-Ocean Climate System*. Springer Berlin Heidelberg, Berlin, hlm. 125–173. https://doi.org/10.1007/3-540-27250-X_5
- World Health Organization (WHO), 2003. Hydrogen Sulfide: Human Health Aspects (Concise International Chemical Assessment Document 53). WHO, Geneva.
- Xu, D., Ge, B., Wang, Z., Sun, Y., Chen, Y., Ji, D., Yang, T., Ma, Z., Cheng, N., Hao, J., Yao, X., 2017. Below-cloud wet scavenging of soluble inorganic ions by rain in Beijing during the summer of 2014. *Environmental Pollution* 230, 963–973. <https://doi.org/10.1016/j.envpol.2017.07.033>
- Zhang, Y., Zhao, T., Shu, Z., Liang, D., Fu, W., Zhu, Y., 2023. Attenuation of mountain-valley circulations on PM_{2.5} pollution over the western Sichuan basin, southwest China. *Atmospheric Pollution Research* 14, 101796. <https://doi.org/10.1016/j.apr.2023.101796>