



## DAFTAR PUSTAKA

- AbdelSattar, A. (2019). Monitoring Air Pollution Using Satellite Data. *Proceedings of the International Conference on Industrial Engineering and Operations Management, November*, 772–780. <http://www.ieomsociety.org/gcc2019/papers/126.pdf>
- Abidin, J., dan Artauli Hasibuan, F. (2019). Pengaruh Dampak Pencemaran Udara Terhadap Kesehatan Untuk Menambah Pemahaman Masyarakat Awam Tentang Bahaya Dari Polusi Udara. *Prosiding SNFUR-4, September*, 1–7. <https://snf.fmipa.unri.ac.id/wp-content/uploads/2019/09/18.-OFMI-3002.pdf>
- Apple. (2021). *Apple Mobility Trends Reports*. <https://www.apple.com/covid19/mobility>
- Baj, J., Karakuła-Juchnowicz, H., Teresiński, G., Buszewicz, G., Ciesielka, M., Sitarz, E., Forma, A., Karakuła, K., Flieger, W., Portincasa, P., dan Maciejewski, R. (2020). COVID-19: Specific and Non-specific Clinical Manifestations and Symptoms: The Current State of Knowledge. *Journal of Clinical Medicine*, 9(6), 1–22. <https://doi.org/10.3390/jcm9061753>
- Becchetti, L., Conzo, G., Conzo, P., dan Salustri, F. (2020). Understanding the Heterogeneity of Adverse COVID-19 Outcomes: the Role of Poor Quality of Air and Lockdown Decisions. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3572548>
- Boedisantoso, N. P. I. W. H. H. A. F. A. R. (2015). Penentuan Korelasi Perubahan Kelembaban Relatif terhadap Ketinggian Inversi dan Kualitas Udara Ambien di Kota Surabaya. *Jurnal Teknik Its*, 4(1), F-120-F-124. <https://core.ac.uk/download/pdf/289796402.pdf>
- Borsdorff, T., Aan de Brugh, J., Hu, H., Aben, I., Hasekamp, O., dan Landgraf, J. (2018). Measuring Carbon Monoxide With TROPOMI: First Results and a Comparison With ECMWF-IFS Analysis Data. *Geophysical Research Letters*, 45(6), 2826–2832. <https://doi.org/10.1002/2018GL077045>
- Cahyono, W. E. (2011). Kajian Tingkat Pencemaran Sulfur Dioksida dari Industri di Beberapa Daerah di Indonesia. *Berita Dirgantara*, 12(4), 132–137. [http://jurnal.lapan.go.id/index.php/berita\\_dirgantara/article/view/1661](http://jurnal.lapan.go.id/index.php/berita_dirgantara/article/view/1661)
- Cichowicz, R., dan Dobrzański, M. (2021). Spatial analysis (Measurements at heights of 10 m and 20 m above ground level) of the concentrations of particulate matter (PM10, PM2.5, and PM1.0) and gaseous pollutants (H2s) on the university campus: A case study. *Atmosphere*, 12(1), 1–14. <https://doi.org/10.3390/atmos12010062>
- Cole, M. A., Elliott, R. J. R., dan Liu, B. (2020). The Impact of the Wuhan Covid-19 Lockdown on Air Pollution and Health: A Machine Learning and Augmented Synthetic Control Approach. *Environmental and Resource Economics*, 76(4), 553–580. <https://doi.org/10.1007/s10640-020-00483-4>
- Conticini, E., Frediani, B., dan Caro, D. (2020). Can atmospheric pollution be considered a co-factor in extremely high level of SARS-CoV-2 lethality in Northern Italy? *Environmental Pollution*, 261, 114465. <https://doi.org/10.1016/j.envpol.2020.114465>
- Esezi Isaac, O., dan Eric Chikweru, A. (2018). Test for Significance of Pearson's Correlation Coefficient (r). *International Journal of Innovative Mathematics, Statistics dan Energy Policies*, 1(1), 11–23. <http://seahipaj.org/journals-ci/mathstatenergy/>



2018/IJIMSEP/full/IJIMSEP-M-2-2018.pdf

European Commission, dan ESA. (2015). *Sentinel-5 Precursor: Data Access and Products*. 2, 1–2. <https://sentinel.esa.int/web/sentinel/sentinel-5p-tropomi-wiki>

Firmansyah, M. (2020). *Polusi Udara Tingkatkan Kematian COVID-19*. Alinea.id. <https://www.alinea.id/nasional/polusi-udara-tingkatkan-kematian-covid-19-b1ZLB9tUv>

Ghozali, I. (2011). *Analisis Multivariate dan Ekonometrika, Teori, Konsep dan Aplikasi dengan Eviews* (Vol. 8). Penerbit Universitas Diponegoro.

Ghozali, Imam. (2018). *Aplikasi analisis multivariate dengan program IBM SPSS* (Vol. 25). Penerbit Universitas Diponegoro.

Google Earth Engine. (2018). *Sentinel-5P OFFL CO: Offline Carbon Monoxide*.

Indriyaningtyas, S., Hasandy, L. R., dan Dewantoro, B. E. B. (2021). Dinamika Konsentrasi Emisi Gas Karbon Monoksida (CO) Selama Periode PSBB Menggunakan Komputasi Berbasis Cloud Pada Google Earth EnginE Studi Kasus di Provinsi DKI Jakarta, Indonesia. *Majalah Ilmiah Globe*, 23(1), 35. <https://doi.org/10.24895/mig.2021.23-1.1258>

IQAir. (2020). 2020 World Air Quality Report:Region dan City PM2.5 Ranking. *IQAir, August, 2020*, 1–41. <https://www.iqair.com/world-most-polluted-cities/world-air-quality-report-2020-en.pdf> Aonline air quality information platform

Jeong, U., dan Hong, H. (2021). Comparison of total column and surface mixing ratio of carbon monoxide derived from the tropomi/sentinel-5 precursor with in-situ measurements from extensive ground-based network over south korea. *Remote Sensing*, 13(19). <https://doi.org/10.3390/rs13193987>

Kaushik, S., Kaushik, S., Sharma, Y., Kumar, R., dan Yadav, J. P. (2020). The Indian Perspective of COVID-19 Outbreak. *VirusDisease*, 31(2), 146–153. <https://doi.org/10.1007/s13337-020-00587-x>

Khoirunurrofik, K., Abdurrachman, F., dan Putri, L. A. M. (2022). Half-hearted policies on mobility restrictions during COVID-19 in Indonesia: A portrait of large informal economy country. *Transportation Research Interdisciplinary Perspectives*, 13, 100517. <https://doi.org/10.1016/j.trip.2021.100517>

Kim, D. H., Choe, Y. J., dan Jeong, J. Y. (2020). Understanding and Interpretation of Case Fatality Rate of Coronavirus Disease 2019. *Journal of Korean Medical Science*, 35(12), 1–3. <https://doi.org/10.3346/JKMS.2020.35.E137>

Kominfo. (2021). *Kementerian Komunikasi dan Informatika*. [https://kominfo.go.id/index.php/content/detail/3415/Kominfo+%3A+Pengguna+Intern+et+di+Indonesia+63+Juta+Orang/0/berita\\_satker](https://kominfo.go.id/index.php/content/detail/3415/Kominfo+%3A+Pengguna+Intern+et+di+Indonesia+63+Juta+Orang/0/berita_satker)

Kurniawan, B., Ruhiat, Y., dan Septiyanto, R. F. (2019). Penerapan Metode Thiessen Polygon untuk Mendekripsi Sebaran Curah Hujan di Kabupaten Tangerang. *Prosiding Seminar Nasional Pendidikan Fisika Untirta*, 2(1), 122–130.

Landgraf, J., Borsdorff, T., Langerock, B., dan Keppens, A. (2020). S5P Mission Performance Centre Carbon Monoxide [ L2 \_\_ CO \_\_\_\_ ] Readme. *Esa*. <https://sentinel.esa.int/documents/247904/3541451/Sentinel-5P-Carbon-Monoxide-Level-2-Product-Readme-File>



Li Xin, Liu Shaomin, Ma Mingguo, Xiao Qing, Liu Qinhuo, Jin Rui, Che Tao, Wang Weizhen, Qi Yuan, Li Hongyi, Zhu Gaofeng, Guo Jianwen, Ran Youhua, W. J. (2012). HiWATER: An Integrated Remote Sensing Experiment on Hydrological and Ecological Processes in the Heihe River Basin. *Advances in Earth Science*, 27(5), 481–498. <https://doi.org/10.11867/j.issn.1001-8166.2012.05.0481>

Peraturan Menteri Lingkungan Hidup dan Kehutanan Republik Indonesia No 14 Tahun 2020 tentang Indeks Standar Pencemaran Udara, (2020). [https://ditppu.menlhk.go.id/portal/uploads/news/1600940556\\_P\\_14\\_2020\\_ISPU\\_m\\_enlhk\\_07302020074834.pdf](https://ditppu.menlhk.go.id/portal/uploads/news/1600940556_P_14_2020_ISPU_m_enlhk_07302020074834.pdf)

Natahania, B., dan Fadhillah, F. (2021). *Rangkuman Perjalanan Gugatan Warga Negara Tentang Polusi Udara Jakarta Pada Tahun 2019*. <https://icel.or.id/wp-content/uploads/28.-REVISI-Rangkuman-Perjalanan-Gugatan-ICEL-Final-170321.pdf>

Ogen, Y. (2020). Assessing Nitrogen Dioxide (NO<sub>2</sub>) Levels as a Contributing Factor to Coronavirus (COVID-19) Fatality. *Science of the Total Environment*, 726(March), 138605. <https://doi.org/10.1016/j.scitotenv.2020.138605>

Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Pedoman Perlindungan dan Pengelolaan Lingkungan Hidup, Sekretariat Negara Republik Indonesia (2021). <http://www.jdih.setjen.kemendagri.go.id/>

Putri, D., dan Perdinan, . (2018). Analysis of Regional Water Availability for Domestic Water Demand (Case Study: Malang Regency). *Agromet*, 32(2), 93. <https://doi.org/10.29244/j.agromet.32.2.93-102>

Randolph, K. A., dan Myers, L. L. (2013). Basic Statistics in Multivariate Analysis. *Basic Statistics in Multivariate Analysis*. <https://doi.org/10.1093/acprof:oso/9780199764044.001.0001>

Ratna Nuraini. (2020). *Kasus Covid-19 Pertama, Masyarakat Jangan Panik*. <https://indonesia.go.id/narasi/indonesia-dalam-angka/ekonomi/kasus-covid-19-pertama-masyarakat-jangan-panik>

Sagar, V. K., Pathakoti, M., Mahalakshmi, D. V., Rajan, K. S., Sesha Sai, M. V. R., Hase, F., Dubravica, D., dan Sha, M. K. (2022). Ground-Based Remote Sensing of Total Columnar CO<sub>2</sub>, CH<sub>4</sub>, and CO Using EM27/SUN FTIR Spectrometer at a Suburban Location (Shadnagar) in India and Validation of Sentinel-5P/TROPOMI. *IEEE Geoscience and Remote Sensing Letters*, 19. <https://doi.org/10.1109/LGRS.2022.3171216>

Saidal Siburian, M.M., M. M. (2020). *Pencemaran Udara dan Emisi Gas Rumah Kaca* (T. K. C. Pustaka (ed.); Cetakan I). Penerbit Kreasi Cendekia Pustaka.

Sarwono, J. (2009). *Statistik itu mudah: panduan lengkap untuk belajar komputasi statistik menggunakan SPSS 16*. Universitas Atma Jaya Yogyakarta.

Surat Edaran Nomor 14 Tahun 2021 tentang Ketentuan Perjalanan Orang Dalam Negeri dalam Masa Pandemi COVID-19, (2021). <https://covid19.go.id/storage/app/media/Regulasi/2021/Juli/se-ka-satgas-nomor-14-tahun-2021-tentang-ketentuan-perjalanan-orang-dalam-negeri-dalam-masa-pandemi-corona-virus-disease-201.pdf>

Satuan Tugas Penanganan COVID-19. (2022). *Peta Sebaran*. <https://covid19.go.id/peta>



sebaran

- Sharma, V. P., Arora, H. C., dan Gupta, R. K. (1983). Atmospheric pollution studies at Kanpur—suspended particulate matter. *Atmospheric Environment* (1967), 17(7), 1307–1313.
- Shukla, J. B., Misra, A. K., Sundar, S., dan Naresh, R. (2008). Effect of rain on removal of a gaseous pollutant and two different particulate matters from the atmosphere of a city. *Mathematical and Computer Modelling*, 48(5), 832–844. <https://doi.org/https://doi.org/10.1016/j.mcm.2007.10.016>
- Sugiyono. (2013). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif dan R&D* (16 ed.). Alfabeta.
- Virghileanu, M., Săvulescu, I., Mihai, B. A., Nistor, C., dan Dobre, R. (2020). Nitrogen Dioxide (NO<sub>2</sub>) Pollution Monitoring with Sentinel-5P Satellite Imagery Over Europe During the Coronavirus Pandemic Outbreak. *Remote Sensing*, 12(21), 1–29. <https://doi.org/10.3390/rs12213575>
- Walpole, R. E., dan Myers, R. H. (1995). *Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan* (4 ed.). ITB Press.
- WHO. (2021a). *Delta Variant*. <https://www.who.int/indonesia/news/novel-coronavirus/new-infographics/delta-variant>
- WHO. (2021b). *WHO Coronavirus (COVID-19) Dashboard*. <https://covid19.who.int/>
- World Health Organization. (2020). *Coronavirus Disease (COVID-19)*. [who.int/health-topics/coronavirus#tab=tab\\_1](https://www.who.int/health-topics/coronavirus#tab=tab_1)
- Yao, Y., Pan, J., Liu, Z., Meng, X., Wang, W., Kan, H., dan Wang, W. (2020). Temporal Association Between Particulate Matter Pollution and Case Fatality Rate of COVID-19 in Wuhan. *Environmental Research*, 189(June), 13–15. <https://doi.org/10.1016/j.envres.2020.109941>
- Yao, Y., Pan, J., Wang, W., Liu, Z., Kan, H., Qiu, Y., Meng, X., dan Wang, W. (2020). Association of particulate matter pollution and case fatality rate of COVID-19 in 49 Chinese cities. *Science of the Total Environment*, 741, 140396. <https://doi.org/10.1016/j.scitotenv.2020.140396>
- Zhu, Y., Xie, J., Huang, F., dan Cao, L. (2020). Association Between Short-term Exposure to Air Pollution and COVID-19 Infection: Evidence from China. *Science of the Total Environment*, 727(December 2019), 138704. <https://doi.org/10.1016/j.scitotenv.2020.138704>
- Zulkarnain, R., dan Ramadani, K. D. (2020). Air Quality and the Potency of COVID-19 Transmission in Java. *Seminar Nasional Official Statistics 2020*, 2, 23–33. <https://prosiding.stis.ac.id/index.php/semnasoffstat/article/download/398/88/>