

## REFERENCES

- Adila, Dara, Nunung Nuryartono, and Mandar Oak. 2021. "The Environmental Kuznets Curve for Deforestation in Indonesia." *Economics and Finance in Indonesia* 67 (2): 195–211. DOI: 10.47291/efi.v67i2.671.
- Ali, Arshad, Guo Xiangyu, and Magdalena Radulescu. 2023. "Nonlinear Effects of Urbanization Routes (Proportion of Small Cities, and Proportion of Large Cities) on Environmental Degradation, Evidence from China, India, Indonesia, the United States, and Brazil." *Energy & Environment* 34 (8): 3391–3416. <https://doi.org/10.1177/09583305X231186843>.
- Anselin, Luc. 1988. *Spatial Econometrics: Methods and Models*. Dordrecht: Kluwer Academic Publishers.
- Black, Dan A., Natalia Kolesnikova, and Lowell J. Taylor. 2014. "Why Do So Few Women Work in New York (and So Many in Minneapolis)? Labor Supply of Married Women across US Cities." *Journal of Urban Economics* 79: 72–84. <https://doi.org/10.1016/j.jue.2013.03.003>.
- BPS. 2024. "Indonesia Economic Growth Quarter IV-2023." Official Statistics News No. 13/02/Th. XXVII. February 5, 2024. <https://www.bps.go.id/en/pressrelease/2024/02/05/2379/indonesia-s-gdpgrowth-rate-in-q4-2023-was-5-04-percent--y-on-y-.html>.
- Chen, S., Y. Zhang, Y. Zhang, and Z. Liu. 2019. "The Relationship between Industrial Restructuring and China's Regional Haze Pollution: A Spatial Spillover Perspective." *Journal of Cleaner Production* 239: 115808. <https://doi.org/10.1016/j.jclepro.2019.02.078>.
- City Population. 2015. "Indonesia: The Largest Cities in 2010 (in Million Inhabitants)." Statista. December 8, 2015. Accessed February 18, 2024. <https://www.statista.com/statistics/319196/largest-cities-in-indonesia/>.
- Dominguez, Alvaro. 2023. "Detecting Air Pollution Clusters in Japan: A Spatial Analysis Approach." *Social Science Japan Journal* 26 (2): 175–200. <https://doi.org/10.1093/ssjj/jyad013>.
- Ekonomou, George, and George Halkos. 2024. "Can Tourism Growth Drive Environmental Improvements in the Eurozone Economic Space: A Panel Data Analysis." *World Development Sustainability* 4: 100139. <https://doi.org/10.1016/j.wds.2024.100139>.
- Fikri, Iman A. 2023. "A Spatial Analysis of Financial Development and Income Inequality in Indonesia." *Bestari: Buletin Statistika dan Aplikasi Terkini* 3 (1): 1–13. <https://bestari.bpskalim.com/index.php/bestari-bpskalim/article/view/54>.



- Fotheringham, A. Stewart, and Peter A. Rogerson, eds. 2009. *The SAGE Handbook of Spatial Analysis*. London: SAGE Publications.
- Gao, Shuning, Jikun Jiang, Shenglai Zhu, Bilal Aslam, and Weihao Wang. 2024. "Nonlinear Influence of Per Capita Carbon Emissions, Newborn Birth Rate, Renewable Energy, Industrialization, and Economic Growth on Urbanization: New Evidence from Panel Threshold Model." *Energy Strategy Reviews* 51: 101305. <https://doi.org/10.1016/j.esr.2024.101305>.
- Grossman, Gene M., and Alan B. Krueger. 1991. "Environmental Impacts of a North American Free Trade Agreement." Working Paper No. 158, Princeton University, Woodrow Wilson School of Public and International Affairs, Princeton, NJ. <https://ideas.repec.org/p/fth/priwpu/158.html>.
- Hao, Yu, Yunxia Guo, Suixin Li, Shiyue Luo, Xueting Jiang, Zhiyang Shen, and Haitao Wu. Luo, Shuyu, Xue Jiang, Zhipeng Shen, and Han Wu. 2022. "Towards Achieving the Sustainable Development Goal of Industry: How Does Industrial Agglomeration Affect Air Pollution?" *Innovation and Green Development* 1 (1): 100003. <https://doi.org/10.1016/j.igd.2022.100003>.
- Hao, Yu, Yalin Xu, Jijian Zhang, Xianling Hu, Jinbo Huang, Chun-Ping Chang, and Yanqing Guo. 2019. "Relationship between Forest Resources and Economic Growth: Empirical Evidence from China." *Journal of Cleaner Production* 214: 848–859. <https://doi.org/10.1016/j.jclepro.2018.12.314>.
- He, Guojun, Yixuan Pan, and Takanao Tanaka. 2020. "The Short-Term Impacts of COVID-19 Lockdown on Urban Air Pollution in China." *Nature Sustainability* 3: 1005–1011. <https://doi.org/10.1038/s41893-020-0581-y>.
- Hendryx, Michael, Jamison Conley, Evan Fedorko, Juhua Luo, and Matthew Armistead. 2012. "Permitted Water Pollution Discharges and Population Cancer and Non-Cancer Mortality: Toxicity Weights and Upstream Discharge Effects in US Rural-Urban Areas." *International Journal of Health Geographics* 11 (Article 9). <https://doi.org/10.1186/1476-072X-11-9>.
- Ignatius, Stephen. 2024. "Cost and Benefit Analysis Kereta Cepat Indonesia-Cina (Jakarta-Bandung)." Kementerian Keuangan Learning Center. July 19, 2024. <https://klc2.kemenkeu.go.id/kms/knowledge/cost-and-benefit-analysiskereta-cepat-indonesia-cina-jakarta-bandung-4a95a3f9/detail/>.
- Ikazaki, Daisuke, and Tohru Naito. 2012. "Industrial Pollution and Economies of Agglomeration." *Studies in Regional Science* 42 (2): 241–254. <https://doi.org/10.2457/srs.42.241>.
- International Monetary Fund. n.d. "Real Gross Domestic Product for Indonesia." FRED, Federal Reserve Bank of St. Louis. Accessed February 16, 2024. <https://fred.stlouisfed.org/series/NGDPRSAXDCIDQ>.



- Iskandar, Azwar. 2019. "Economic Growth and CO2 Emissions in Indonesia: Investigating the Environmental Kuznets Curve Hypothesis Existence." *Jurnal BPPK: Badan Pendidikan Dan Pelatihan Keuangan* 12 (1): 42–52. Accessed via SSRN: <https://ssrn.com/abstract=3416417>.
- Karim, Abdul, Aas Fatur Rahman, Suhartono, Dwi Djoko Prastyo, and Budy Manfaat. 2017. "Regression Models for Spatial Data: An Example from Gross Regional Domestic Product in Central Java Province." *Jurnal Ekonomi Pembangunan* 18 (2): 213–24. <https://doi.org/10.23917/jep.v18i2.4660>.
- Koo, Jun. 2005. "Technology Spillovers, Agglomeration, and Regional Economic Development." *Journal of Planning Literature* 20 (2): 115–129. <https://doi.org/10.1177/0885412205279796>.
- Kumari, Pratima, and Durga Toshniwal. 2020. "Impact of Lockdown on Air Quality over Major Cities across the Globe during COVID-19 Pandemic." *Urban Climate* 34: 100719. <https://doi.org/10.1016/j.uclim.2020.100719>.
- Kurniawan, Robi, and Shunsuke Managi. 2018. "Coal Consumption, Urbanization, and Trade Openness Linkage in Indonesia." *Energy Policy* 121: 576–583. <https://doi.org/10.1016/j.enpol.2018.07.023>.
- LeSage, James P., and R. Kelley Pace. 2009. *Introduction to Spatial Econometrics*. Boca Raton, FL: Chapman and Hall/CRC.
- Le Quéré, Corinne, Robert B. Jackson, Matthew W. Jones, Adam J. P. Smith, Sam Abernethy, Robbie M. Andrew, Anthony J. De-Gol, et al. 2020. "Temporary Reduction in Daily Global CO2 Emissions During the COVID-19 Forced Confinement." *Nature Climate Change* 10: 647–653. <https://doi.org/10.1038/s41558-020-0797-x>.
- Liang, Longwu, Zhenbo Wang, and Jiabin Li. 2019. "The Effect of Urbanization on Environmental Pollution in Rapidly Developing Urban Agglomerations." *Journal of Cleaner Production* 237: 117649. <https://doi.org/10.1016/j.jclepro.2019.117649>.
- Liputo, Syafrin, Sutanto Soehodho, Setyo S. Moersidik, and Budhy Tjahjati S. Sugijoko. 2015. "Relationship between Primary Pollutants Distribution and Quality of Urban Green Areas in Jakarta, Indonesia." *Asian Journal of Microbiology, Biotechnology & Environmental Sciences* 17 (2): 461–467. <https://scholar.ui.ac.id/en/publications/relationship-between-primary-pollutants-distribution-and-quality->
- Liu, Hongwei, Chenchen Gao, and Henry Tsai. 2023. "Spatial Spillover and Determinants of Tourism Efficiency: A Low Carbon Emission Perspective." *Tourism Economics* 30 (3): 1–24. <https://doi.org/10.1177/13548166231167045>.



- Liu, Wei. 2020. "EKC Test Study on the Relationship between Carbon Dioxide Emission and Regional Economic Growth." *Carbon Management* 11 (4): 415–425. <https://doi.org/10.1080/17583004.2020.1768776>.
- Liu, Ye, and Jianfa Shen. 2014. "Spatial Patterns and Determinants of Skilled Internal Migration in China, 2000–2005." *Papers in Regional Science* 93 (4): 749–771. <https://ideas.repec.org/a/bla/presci/v93y2014i4p749-771.html>.
- Mardiansjah, Fadjar Hari, Paramita Rahayu, and Deden Rukmana. 2021. "New Patterns of Urbanization in Indonesia: Emergence of Non-Statutory Towns and New Extended Urban Regions." *Environment and Urbanization ASIA* 12 (1): 11–26. <https://doi.org/10.1177/0975425321990384>.
- Marta, Joan, Akhmad Fauzi, Bambang Juanda, and Ernan Rustiadi. 2020. "Understanding Migration Motives and Its Impact on Household Welfare: Evidence from Rural–Urban Migration in Indonesia." *Regional Studies, Regional Science* 7 (1): 118–132. <https://doi.org/10.1080/21681376.2020.1746194>.
- Massagony, Alfian, and Budiono. 2023. "Is the Environmental Kuznets Curve (EKC) Hypothesis Valid on CO2 Emissions in Indonesia?" *International Journal of Environmental Studies* 80 (1): 20–31. <https://doi.org/10.1080/00207233.2022.2029097>.
- Nguyen, Ha Minh, and Le Dang Nguyen. 2018. "The Relationship between Urbanization and Economic Growth: An Empirical Study on ASEAN Countries." *International Journal of Social Economics* 45 (2): 316–339. <https://doi.org/10.1108/IJSE-12-2016-0358>.
- Noor, Muhamad Ameer, and Putu Mahardika Adi Saputra. 2020. "Emisi Karbon dan Produk Domestik Bruto: Investigasi Hipotesis Environmental Kuznets Curve (EKC) pada Negara Berpendapatan Menengah di Kawasan ASEAN." *Jurnal Wilayah dan Lingkungan* 8 (3): 230–246. <https://doi.org/10.14710/jwl.8.3.230-246>.
- Oktafianto, Eka Khaerandy, Noer Azam Achsani, and Tony Irawan. 2019. "The Determinant of Regional Unemployment in Indonesia: The Spatial Durbin Models." *Signifikan: Jurnal Ilmu Ekonomi* 8, no. 2 (August): 179–194. <http://dx.doi.org/10.15408/sjie.v8i2.10124>.
- Prastiyo, Slamet Eko, Irham, Suhatmini Hardyastuti, and Jamhari. 2020. "How Agriculture, Manufacture, and Urbanization Induced Carbon Emission: The Case of Indonesia." *Environmental Science and Pollution Research* 27, no. 33 (November): 42092–42103. <https://doi.org/10.1007/s11356-020-10148-w>.



- Pujiati, Amin, Triani Nurbaeti, and Nadia Damayanti. 2023. "What Are the Factors That Determine Differing Levels of Environmental Quality: Evidence from Java and Other Islands in Indonesia." *Management of Environmental Quality: An International Journal* 34, no. 2 (January): 290–307. <https://doi.org/10.1108/MEQ-02-2022-0034>.
- Ren, Xiaohang, Cheng Cheng, Zhen Wang, and Cheng Yan. 2021. "Spillover and Dynamic Effects of Energy Transition and Economic Growth on Carbon Dioxide Emissions for the European Union: A Dynamic Spatial Panel Model." *Sustainable Development* 29, no. 1 (January): 228–242. <https://doi.org/10.1002/sd.2144>.
- Sodri, Ahyahudin, and Iwa Garniwa. 2016. "The Effect of Urbanization on Road Energy Consumption and CO2 Emissions in Emerging Megacity of Jakarta, Indonesia." *Procedia - Social and Behavioral Sciences* 227 (July): 728–737. <https://doi.org/10.1016/j.sbspro.2016.06.139>.
- Soehodho, Sutanto. 2017. "Public Transportation Development and Traffic Accident Prevention in Indonesia." *IATSS Research* 40, no. 2 (March): 76–80. <https://doi.org/10.1016/j.iatssr.2016.05.001>.
- Srinivasan, Sumeeta. 2008. "Spatial Contiguity Matrices." In *Encyclopedia of GIS*, edited by Shashi Shekhar and Hui Xiong, 1077–1078. New York: Springer. <https://doi.org/10.1007/978-0-387-35973-1>.
- Stakhovych, Stanislav, and Tamm H. A. Bijmolt. 2009. "Specification of Spatial Models: A Simulation Study on Weights Matrices." *Papers in Regional Science* 88, no. 2 (June): 389–408. <https://doi.org/10.1111/j.1435-5957.2008.00213.x>.
- Sun, Jing, Jing Wang, Tao Wang, and Tao Zhang. 2019. "Urbanization, Economic Growth, and Environmental Pollution: Partial Differential Analysis Based on the Spatial Durbin Model." *Management of Environmental Quality: An International Journal* 30, no. 2 (February): 483–494. <https://doi.org/10.1108/MEQ-05-2018-0101>.
- Tobler, Waldo R. 1970. "A Computer Movie Simulating Urban Growth in the Detroit Region." *Economic Geography* 46, Supplement (June): 234–240. <https://doi.org/10.2307/143141>.
- Wang, Yuqing, Haozhe Yang, Junfeng Liu, Yuan Xu, Xuejun Wang, Jianmin Ma, Jiayu Xu, Kan Yi, and Shu Tao. 2020. "Analysis of Multiple Drivers of Air Pollution Emissions in China via Interregional Trade." *Journal of Cleaner Production* 244 (January): 118507. <https://doi.org/10.1016/j.jclepro.2019.118507>.



- Weng, Chunfei, Jingong Huang, and Matthew Greenwood-Nimmo. 2023. "The Effect of Clean Energy Investment on CO<sub>2</sub> Emissions: Insights from a Spatial Durbin Model." *Energy Economics* 126 (October): 107000. <https://doi.org/10.1016/j.eneco.2023.107000>.
- World Bank. 2023. "Indonesia: Urbanization from 2013 to 2023." Statista. Accessed February 18, 2024. <https://www.statista.com/statistics/455835/urbanization-in-indonesia/>.
- World Bank. 2023. "Indonesia Overview." The World Bank. October 20, 2023. <https://www.worldbank.org/en/country/indonesia/overview>.
- Xiong, Xin, Lixiao Zhang, Yan Hao, Pengpeng Zhang, Zhimin Shi, and Tingting Zhang. 2022. "How Urbanization and Ecological Conditions Affect Urban Diet-Linked GHG Emissions: New Evidence from China." *Resources, Conservation and Recycling* 176 (January): 105903. <https://doi.org/10.1016/j.resconrec.2021.105903>.
- Zhang, Caiqing, Zixuan Wang, and Hongxia Luo. 2023. "Spatio-Temporal Variations, Spatial Spillover, and Driving Factors of Carbon Emission Efficiency in RCEP Members Under the Background of Carbon Neutrality." *Environmental Science and Pollution Research* 30, no. 13 (March): 36485–36501. <https://doi.org/10.1007/s11356-022-24778-9>.
- Zhao, Jing, Ziru Zhao, and Huan Zhang. 2021. "The Impact of Growth, Energy and Financial Development on Environmental Pollution in China: New Evidence from a Spatial Econometric Analysis." *Energy Economics* 93 (January): 104506. <https://doi.org/10.1016/j.eneco.2019.104506>.
- Zhao, Mingxuan, Lianhong Lv, Jing Wu, Shen Wang, Nan Zhang, Zihan Bai, and Hong Luo. 2022. "Total Factor Productivity of High Coal-Consuming Industries and Provincial Coal Consumption: Based on the Dynamic Spatial Durbin Model." *Energy* 251 (July): 123917. <https://doi.org/10.1016/j.energy.2022.123917>.