

REFERENCES

- Abeydeera, L.H.U.W., Mesthrige, J.W., Samaringhalage, T.I. (2019). Global research on carbon emission: A scientometric review. *Sustainability*, 11 (14), 3. <https://doi.org/10.3390/su11143972>
- Ali, H. S., Law, S. H., Lin, W. L., Yusop, Z., Chin, L., & Bare, U. A. A. (2019). Financial development and carbon dioxide emissions in Nigeria: evidence from the ARDL bounds approach. *GeoJournal*, 84(3), 641–655. <https://doi.org/10.1007/s10708-018-9880-5>
- Alibekova, G., Medeni, T., Panzabekova, A., & Mussayeva, D. (2020). Digital transformation enablers and barriers in the economy of Kazakhstan. *Journal of Asian Finance, Economics and Business*, 7(7), 565–575. <https://doi.org/10.13106/jafeb.2020.vol7.no7.565>
- Alshubiri, F., Jamil, S. A., & Elheddad, M. (2019). The impact of ICT on financial development: Empirical evidence from the Gulf Cooperation Council countries. *International Journal of Engineering Business Management*, 11, 1–14. <https://doi.org/10.1177/1847979019870670>
- Appiah-Otoo, I., & Song, N. (2021). The impact of ICT on economic growth- Comparing rich and poor countries. *Telecommunications Policy*, 45(2), 102082. <https://doi.org/10.1016/j.telpol.2020.102082>
- Asongu, S. A., Le Roux, S., & Biekpe, N. (2017). Environmental degradation, ICT and inclusive development in Sub-Saharan Africa. *Energy Policy*, 111(September), 353–361. <https://doi.org/10.1016/j.enpol.2017.09.049>
- Begum, R. A., Sohag, K., Abdullah, S. M. S., & Jaafar, M. (2015). CO2 emissions, energy consumption, economic and population growth in Malaysia. *Renewable and Sustainable Energy Reviews*, 41, 594–601. <https://doi.org/10.1016/j.rser.2014.07.205>

- Belkhir, L., & Elmeligi, A. (2018). Assessing ICT global emissions footprint: Trends to 2040 & recommendations. *Journal of Cleaner Production*, 177, 448–463. <https://doi.org/10.1016/j.jclepro.2017.12.239>
- Chen, L. (2022). How CO2 emissions respond to changes in government size and level of digitalization? Evidence from the BRICS countries. *Environmental Science and Pollution Research*, 29(1), 457–467. <https://doi.org/10.1007/s11356-021-15693-6>
- Chu, W. (2022). Climate Change and Industry Structure in China. *Climate Change and Industry Structure in China*, 1–2, 1–392. <https://doi.org/10.4324/9781003004370>
- Danish, Zhang, J., Wang, B., & Latif, Z. (2019). Towards cross-regional sustainable development: The nexus between information and communication technology, energy consumption, and CO2 emissions. *Sustainable Development*, 27(5), 990–1000. <https://doi.org/10.1002/sd.2000>
- Edquist, H., & Bergmark, P. (2023). How is mobile broadband intensity affecting CO2 emissions? – A macro analysis. *Telecommunications Policy*, xxxx, 102668. <https://doi.org/10.1016/j.telpol.2023.102668>
- Feuerriegel, S., Bodenbenner, P., & Neumann, D. (2016). Value and granularity of ICT and smart meter data in demand response systems. *Energy Economics*, 54, 1–10. <https://doi.org/10.1016/j.eneco.2015.11.016>
- Finger, M. (2022). Digitalization. *The Elgar Companion to Urban Infrastructure Governance: Innovation, Concepts and Cases*, 383–399. <https://doi.org/10.4337/9781800375611.00030>
- Gobble, M. A. M. (2018). Digitalization, Digitization, and Innovation. *Research Technology Management*, 61(4), 56–59. <https://doi.org/10.1080/08956308.2018.1471280>

- Grossman, G. M., & Krueger, A. B. (1991). *Environmental impacts of a North American free trade agreement*. 3914.
- Gujarati, D. N., & Porter, D. C. (2009). *Basic Econometric* (5th ed.).
- Habibi, F., & Zabardast, M. A. (2020). Digitalization, education and economic growth: A comparative analysis of Middle East and OECD countries. *Technology in Society*, 63(August), 101370. <https://doi.org/10.1016/j.techsoc.2020.101370>
- Haini, H. (2021). Examining the impact of ICT, human capital and carbon emissions: Evidence from the ASEAN economies. *International Economics*, 166(March), 116–125. <https://doi.org/10.1016/j.inteco.2021.03.003>
- Hu, J. (2023). Synergistic effect of pollution reduction and carbon emission mitigation in the digital economy. *Journal of Environmental Management*, 337. <https://doi.org/https://doi.org/10.1016/j.jenvman.2023.117755>
- Husaini, D. H., & Lean, H. H. (2022). Digitalization and Energy Sustainability in ASEAN. *Resources, Conservation and Recycling*, 184(May), 106377. <https://doi.org/10.1016/j.resconrec.2022.106377>
- Hussain, A., Batool, I., Akbar, M., & Nazir, M. (2021). Is ICT an enduring driver of economic growth? Evidence from South Asian economies. *Telecommunications Policy*, 45(8), 102202. <https://doi.org/10.1016/j.telpol.2021.102202>
- Lange, S., Pohl, J., & Santarius, T. (2020). Digitalization and energy consumption. Does ICT reduce energy demand? *Ecological Economics*, 176(December 2019), 106760. <https://doi.org/10.1016/j.ecolecon.2020.106760>
- Lin, B., & Zhou, Y. (2021). Does Internet development affect energy and carbon emission performance? *Sustainable Production and Consumption*, 28, 1–10. <https://doi.org/10.1016/j.spc.2021.03.016>
- M. Salahuddin, S. K. (2013). *EMPIRICAL LINK BETWEEN ECONOMIC GROWTH*

, *ENERGY CONSUMPTION AND CO 2 EMISSION IN AUSTRALIA* Author (s): Mohammad Salahuddin and Shahjahan Khan Source : *The Journal of Developing Areas* , Vol . 47 , No . 2 (Fall 2013), pp . 81-92 Published by : College o. 47(2), 81–92.

Matthess, M., & Kunkel, S. (2020). Structural change and digitalization in developing countries: Conceptually linking the two transformations. *Technology in Society*, 63, 101428. <https://doi.org/10.1016/j.techsoc.2020.101428>

Moriset, B., & Malecki, E. J. (2009). Organization versus space: The paradoxical geographies of the digital economy. *Geography Compass*, 3(1), 256–274. <https://doi.org/10.1111/j.1749-8198.2008.00203.x>

N. Gregory Mankiw, David Romer, D. N. W. (1992). A Contribution to the Empirics of Economic Growth. *The Quarterly Journal of Economics*, 107(2), 407–437. <https://doi.org/https://doi.org/10.2307/2118477>

N'dri, L. M., Islam, M., & Kakinaka, M. (2021). ICT and environmental sustainability: Any differences in developing countries? *Journal of Cleaner Production*, 297, 126642. <https://doi.org/10.1016/j.jclepro.2021.126642>

OECD. (2014). Measuring the Digital Economy: A New Perspective. In *Organisation for Economic Co-operation and Development*.

Pesaran, M. H., Shin, Y., & Smith, R. J. (2001). Bounds testing approaches to the analysis of level relationships. *Journal of Applied Econometrics*, 16(3), 289–326. <https://doi.org/10.1002/jae.616>

Pradhan, R. P., Mallik, G., & Bagchi, T. P. (2018). Information communication technology (ICT) infrastructure and economic growth: A causality evinced by cross-country panel data. *IIMB Management Review*, 30(1), 91–103. <https://doi.org/10.1016/j.iimb.2018.01.001>

Romer, P. M. (1990). Endogenous technological change. *Journal of Political*

Economy, 98(5), S71–S102. <https://doi.org/10.3386/w3210>

Shabbir, A., kousar, S., & Zubair Alam, M. (2020). Factors affecting level of unemployment in South Asia. *Journal of Economic and Administrative Sciences*, 37(1), 1–25. <https://doi.org/10.1108/jeas-03-2019-0040>

Solow, R. M. (1994). Perspectives on Growth Theory. *Journal of Economic Perspectives*, 8(1):45-54. [https://doi.org/DOI: 10.1257/jep.8.1.45](https://doi.org/DOI:10.1257/jep.8.1.45)

Srai, J. S., & Lorentz, H. (2019). Developing design principles for the digitalisation of purchasing and supply management. *Journal of Purchasing and Supply Management*, 25(1), 78–98. <https://doi.org/10.1016/j.pursup.2018.07.001>

Stern, D. I. (2016). Economic Growth and Energy. *Reference Module in Earth Systems and Environmental Sciences*. <https://doi.org/https://doi.org/10.1016/B978-0-12-409548-9.09716-5>

Tapscott, D. (2014). *The Digital Economy ANNIVERSARY EDITION: Rethinking Promise and Peril in the Age of Networked Intelligence*.

Toader, E., Firtescu, B. N., Roman, A., & Anton, S. G. (2018). Impact of information and communication technology infrastructure on economic growth: An empirical assessment for the EU countries. *Sustainability (Switzerland)*, 10(10), 1–22. <https://doi.org/10.3390/su10103750>

Usman, A., Ozturk, I., Ullah, S., & Hassan, A. (2021). Does ICT have symmetric or asymmetric effects on CO2 emissions? Evidence from selected Asian economies. *Technology in Society*, 67(July), 101692. <https://doi.org/10.1016/j.techsoc.2021.101692>

Vosooghzadeh, B. (2020). Introducing Energy Consumption Theory and Its Positive Impact on the Economy. *Research Gate, May*, 1–5.

Waheed, R., Chang, D., Sarwar, S., & Chen, W. (2018). Forest, agriculture, renewable energy, and CO2 emission. *Journal of Cleaner Production*, 172,

4231–4238. <https://doi.org/10.1016/j.jclepro.2017.10.287>

Wang, J., Dong, K., Dong, X., & Taghizadeh-Hesary, F. (2022). Assessing the digital economy and its carbon-mitigation effects: The case of China. *Energy Economics*, 113(July), 106198. <https://doi.org/10.1016/j.eneco.2022.106198>

Wang, Q., Sun, J., Pata, U. K., Li, R., & Kartal, M. T. (2023). Digital economy and carbon dioxide emissions: Examining the role of threshold variables. *Geoscience Frontiers*, xxx, 101644. <https://doi.org/10.1016/j.gsf.2023.101644>

Wang, Q., Yang, T., & Li, R. (2023). Does income inequality reshape the environmental Kuznets curve (EKC) hypothesis? A nonlinear panel data analysis. *Environmental Research*, 216(P2), 114575. <https://doi.org/10.1016/j.envres.2022.114575>

Wang, W., Liu, R., Zhang, M., & Li, H. (2013). Decomposing the decoupling of energy-related CO₂ emissions and economic growth in Jiangsu Province. *Energy for Sustainable Development*, 17(1), 62–71. <https://doi.org/10.1016/j.esd.2012.11.007>

Xu, Q., & Zhong, M. (2023). The impact of income inequity on energy consumption: The moderating role of digitalization. *Journal of Environmental Management*, 325(PA), 116464. <https://doi.org/10.1016/j.jenvman.2022.116464>

