

Bibliografia

- Adamkiewicz-Drwiłło H. G., 2010, *Konkurencyjność przedsiębiorstw w świetle uwarunkowań współczesnej gospodarki*. Wyd. TNOiK, Toruń.
- Agenda 2030, Przekształcamy nasz świat: Agenda na rzecz zrównoważonego rozwoju 2030*, [http://www.un.org.pl/files/170/Agenda2030PL_pl-5.pdf]: 1-16.
- Aiginger K., Vogel J., 2015, *Competitiveness: from a Misleading Concept to a Strategy Supporting beyond GDP Goals*. *Competitiveness Review*, 25(5): 497-523, DOI: [<http://dx.doi.org/10.1108/CR-06-2015-0052>].
- Aijtabh A., Momaya K., 2004, *Competitiveness of Firms: Review of Theory, Frameworks and Models*. *Singapore Management Review*, 26 (1): 45-61.
- Alonso J. A., Garcimartin C., Kvedaras V., 2020, *Determinants of Institutional Quality: an Empirical Exploration*. *Journal of Economic Policy Reform*, 23(2): 229-247, DOI: 10.1080/17487870.2020.1719102.
- Annoni P., Dijkstra L., 2013, *The EU Regional Competitiveness Index*. Publications Office of the European Union, Luxembourg, [https://ec.europa.eu/regional_policy/sources/docgener/studies/pdf/6th_report/rci_2013_report_final.pdf].
- Annoni P., Dijkstra L., 2019, *The EU Regional Competitiveness Index*. Publications Office of the European Union, Luxembourg, [https://ec.europa.eu/regional_policy/sources/docgener/work/2019_03_rci2019.pdf], 1-42].
- Annoni P., Weziak-Białowska D., 2016, *A Measure to Target Antipoverty Policies in the European Union Regions*. *Applied Research in Quality of Life*, 11: 181-207, DOI: [<https://doi.org/10.1007/s11482-014-9361-z>].
- Annual Report 2021-2022*, World Economic Forum, Switzerland [https://www3.weforum.org/docs/WEF_Annual_Report_2021_22.pdf].
- Azam M., 2016, *Does Environmental Degradation Shackle Economic Growth? A Panel Data Investigation on 11 Asian Countries*. *Renewable and Sustainable Energy Reviews*, Elsevier 65(C), 175-182. DOI: 10.1016/j.rser.2016.06.087.
- Balcerzak P., Bernard M. P., 2017, *Digital Economy in Visegrad Countries. Multiple-criteria Decision Analysis at Regional Level in the Years 2012 and 2015*. *Journal of Competitiveness*, 9(2): 5-18, DOI:10.7441/joc.2017.02.01.
- Baldwin R., 2003, *Economic Geography and Public Policy*. Princeton University Press, Princeton.
- Baumann Ch., Winzar H., 2016, *The Role of Secondary Education in Explaining Competitiveness*. *Asia Pacific Journal of Education*, 36(1): 13-30, DOI: 10.1080/02188791.2014.924387.

- Beekman G., 2008, *Youth, Social Capital, and Rural Development*. In 8th International Students Summit Tokyo, Tokyo University of Agriculture.
- Benefits of Climate Action*, An official website of the European Union, European Commission, [https://ec.europa.eu/clima/citizens/benefits-climate-action_en].
- Berger T., Bristow G., 2008, *Benchmarking Regional Performance: a Critical Reflection on Indices of Competitiveness*. Paper for the Regional Studies Association Annual Conference, The Dilemmas of Integration and Competition. Prague, University of Economics.
- Bernaciak A., Gaczek W. M., 2002, *Ekonomiczne aspekty ochrony środowiska*. Wyd. AE w Poznaniu. Poznań.
- Bhawsar P., Chattopadhyay U., 2015, *Competitiveness Review, Reflections and Directions*. Global Business Review, 16 (4): 665-679, DOI:10.1177/0972150915581115.
- Biniecki J., Frankiel W., 2005, *Konkurencyjność – przedsiębiorczość – rozwój: podstawowe dylematy pojęciowe i metodyczne*, [w:] *Przedsiębiorczy i konkurencyjny region w teorii i polityce rozwoju regionalnego*, A. Klasik (red.). Biuletyn KPZK PAN, z. 218, Warszawa: 23-46.
- Bjørn A., 2007, *Differentiated Knowledge Bases and Varieties of Regional Innovation Systems*. The European Journal of Social Science Research, 20(3): 223-241, DOI: [<http://dx.doi.org/10.1080/13511610701722846>].
- Borowiecki R., Siuta-Tokarska B., 2017, *Problemy innowacyjności gospodarki Polski, ze szczególnym uwzględnieniem działalności badawczo-rozwojowej*. Nierówności Społeczne a Wzrost Gospodarczy, 50 (2): 163-176, DOI: 10.15584/nsawg.2017.2.10.
- Borrás S., Jordana J., 2016, *When Regional Innovation Policies Meet Policy Rationales and Evidence: a Plea for Policy Analysis*. European Planning Studies 24 (12): 2133-2153. DOI: [<https://doi.org/10.1080/09654313.2016.1236074>].
- Box G. E. P., Cox D. R., 1964, *An Analysis of Transformations*. Journal of the Royal Statistical Society, Series B, 26: 211-252.
- Brettel M., Friederichsen N., Keller M., Rosenberg M., 2014, *How Virtualization, Decentralization and Network Building Change the Manufacturing Landscape: An Industry 4.0 Perspective*. International Journal of Information and Communication Engineering, 8 (1): 37-44, DOI: doi.org/10.5281/zenodo.1336426.
- Bristow G., 2015, *Critical Reflections on Regional Competitiveness Theory, Policy, Practice*. Routledge Studies in Human Geography Book, 31.
- Brodzicki T., Kuczevska J., 2012, *Klastry i polityka klastrowa w Polsce. Konkurencyjność przedsiębiorstw, sektorów i regionów*. Wyd. Uniwersytetu Gdańskiego, Gdańsk.
- Buitrago R. E., Camargo M. I. B., 2021, *Institutions, Institutional Quality, and International Competitiveness: Review and Examination of Future Research Directions*. Journal of Business Research, Elsevier 128(C): 423-435, DOI: 10.1016/j.jbusres.2021.02.024.
- Burke M., Tanutama V., 2019, *Climatic Constraints on Aggregate Economic Output*. National Bureau of Economic Research, Working Paper, 25779.
- Burke M., Hsiang S., Miguel E., 2015, *Global Non-linear Effect of Temperature on Economic Production*. Nature, 527: 235-239.
- Cai H., Mei Y., Chen J., Wu Z., Lan L., Zhu D., 2020, *An Analysis of the Relation between Water Pollution and Economic Growth in China by Considering the Contemporaneous Correlation of Water Pollutants*. Journal of Cleaner Production, 276, 122783, DOI: 10.1016/j.jclepro.2020.122783.
- Camagni R., 2002, *On the Concept of Territorial Competitiveness. Sound or Misleading?* Urban Studies, 39 (13): 2395-2396.
- Carbon-footprint*, 2022, [<https://worldpopulationreview.com/country-rankings/carbon-footprint-by-country>].

- Cetindamar D., Kilitcioglu H., 2013, *Measuring the Competitiveness of a Firm for an Award System*. *Competitiveness Review*, 23(1): 7-22, DOI: <http://dx.doi.org/10.1108/10595421311296597>.
- Charles V., Zegarra L. F., 2014, *Measuring Regional Competitiveness through Data Envelopment Analysis: a Peruvian Case*. *Expert System with Applications*, 41(11): 5371-5381, DOI:10.1016/j.eswa.2014.03.003.
- Chądzyński J., Nowakowska A., Przygodzki Z., 2012, *Region i jego rozwój w warunkach globalizacji*. CeDeWu.PL, Warszawa.
- Chen J., Cheng D., Zhu D., 2012, *Evaluation of Urban Low-carbon Competitiveness in China Using Grey Relational Analysis*. *Resources Science*, 9: 1726-1733.
- Chodorek M., 2016, *Uwarunkowania zarządzania talentami w przedsiębiorstwie w kontekście teorii pozytywnego zarządzania*. Wyd. Naukowe UMK, Toruń.
- Churski P., 2008, *Czynniki rozwoju regionalnego i polityka regionalna w Polsce w okresie integracji z Unią Europejską*. Seria Geografia, nr 79, Wyd. Naukowe UAM, UAM w Poznaniu, Poznań.
- Climate Action Network 2018, *off Target: Ranking of EU Countries' Ambition and Progress in Fighting Climate Change*, [https://caneurope.org/content/uploads/2018/06/CAN_Off-target_report_FIN-1.pdf]: 1-15.
- Cote S., Healy T., 2001, *The Well-Being of Nations. The Role of Human and Social Capital*. Organisation for Economic Co-Operation and Development, OECD. Paris.
- Czarny B., 2011, *Podstawy ekonomii*. PWE, Warszawa.
- Czudec W., 2010, *Konkurencyjność regionu i strategie regionalne*. *Economy and Management*, 2: 33-43.
- Czuplikowska K., 2014, *Innowacje produktowe w świetle preferencji konsumentów w segmencie czekolady na przykładzie rynku FMCG*. *Studia i Prace WNEiZ*, 38: 137-148.
- Czyżewska D., 2012, *Istota konkurencyjności regionów*. *Ruch Prawniczy, Ekonomiczny i Socjologiczny*, 74(4): 203-217.
- Damania R., Desbureaux S., Aude-Sophie R., Russ J., Zaveri E., 2019, *Quality Unknown: The Invisible Water Crisis*. World Bank, Washington DC.
- Damodaran A., 2007, *Finanse korporacyjne. Teoria i praktyka*. Wyd. Helion, Gliwice.
- Delgado M., Ketels Ch., Porte M. E., Stern S., 2012, *The Determinants of National Competitiveness*. NBER Working Paper Series, Working Paper 18249, National Bureau of Economic Research, Cambridge.
- Doyle E., Perez-Alanis M., 2017, *From the Concept to the Measurement of Sustainable Competitiveness: Social and Environmental Aspects*. *Entrepreneurial Business and Economics Review*, 5(4): 35-59, DOI: [<https://doi.org/10.15678/EBER.2017.050402>].
- Ebi K. L., Hess J. J., 2020, *Health Risks Due to Climate Change: Inequity in Causes and Consequences*. *Health Affairs*, 39(12): 2056-2062, DOI: [<https://doi.org/10.1377/hlthaff.2020.01125>].
- EC, 2021, European Commission, Directorate-General for Budget, *The EU's 2021-2027 Long-term Budget and Next Generation EU: Facts and Figures*, DOI: [<https://data.europa.eu/doi/10.2761/91357>].
- Edler J. Fagerberg J., 2017, *Innovation Policy: What, Why, and How*. *Oxford Review of Economic Policy*, 33, (1): 2-23, DOI: [<https://doi.org/10.1093/oxrep/grx001>].
- EIB, 2022, *What Drives Firms' Investment in Climate Action? Evidence from the 2021-2022 EIB Investment Survey 2022*, European Investment Bank, Luxembourg, [https://www.eib.org/attachments/publications/what_drives_firms_investment_in_climate_action_en.pdf].

- Ellis K., 2013, *Low Carbon Competitiveness*. Working Paper, 368, Overseas Development Institute, London: 1-52.
- Energetyka, 2009, *Energetyka – główne źródło emisji gazów cieplarnianych*, [http://eko.org.pl/index_trendy.php?dzial=4&kat=6&art=1542].
- EPRS (European Parliamentary Research Service), 2021, *Climate Action in Latvia*, Climate Action Research and Tracking Service, Members' Research Service PE 696.194, [[https://www.europarl.europa.eu/RegData/etudes/BRIE/2021/696194/EPRS_BRI\(2021\)696194_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/BRIE/2021/696194/EPRS_BRI(2021)696194_EN.pdf)].
- European Commission, 2014, *The European Union Explained: Research and Innovation*, Publications Office of the European Union, Luxembourg, Doi: [<https://doi.org/10.2775/74012>].
- European Commission, Directorate-General for Environment, 2020, *Leading the Way to a Global Circular Economy: State of Play and Outlook*, [<https://data.europa.eu/doi/10.2779/013167>].
- Feng K. S., Davis S. J., Sun L. X., Hubacek K., 2015, *Drivers of the US CO₂ Emissions 1997-2013*, Nature Communications, 6: 7714.
- Flachenecker F., 2018, *The Effects of Resource Efficiency on Competitiveness and Climate Change Mitigation: The Role of Investments*, [w:] *Investing in Resource Efficiency*, F. Flachenecker, J. Rentschler (red.). Springer, Cham.
- Fratesi U., Senn L., 2009, *Regional Growth, Connections and Economic Modelling: An Introduction*, [w:] *Growth and Innovation of Competitive Regions. The Role of Internal and External Connections*, U. Fratesi, L. Senn (red.). Springer, Heidelberg: 10-15.
- Fröhlich K., Hassink R., 2018, *Regional Resilience: a Stretched Concept?* European Planning Studies, 26(9): 1763-1778.
- Garrelli S., 2014, *The Fundamentals and History of Competitiveness*. IMD World Competitiveness Yearbook, IMD World Competitiveness Centre, Lausanne: 492-507.
- Gawlikowska-Hueckel K., 2000, *Jakość życia w miastach-powiatach grodzkich*. Instytut Badań nad Gospodarką Rynkową, Gdańsk.
- Genstwa N., 2020, *Środowiskowa krzywa Kuzneta: przegląd teoretyczno-metodyczny*. Rozwój Regionalny i Polityka Regionalna, 49: 39-50, [<https://doi.org/10.14746/rrpr.2020.49.04>].
- George D., Mallery P., 2016, *IBM SPSS Statistics 23 Step by Step: A Simple Guide and Reference*. Routledge, New York.
- Goldar B., Parida Y., Sehdev D., 2017, *Reduction in Carbon Emissions Intensity and Impact on Export Competitiveness: Evidence from Indian Manufacturing Firms*. Journal of International Commerce, Economics and Policy, 8(2): 1-30.
- Gong H., Hassink R., Tan J., Huang D., 2020, *Regional Resilience in Times of a Pandemic Crisis: The Case of Covid-19 in China*. Tijdschrift voor Economische en Sociale Geografie, 111(3): 497-512.
- Góralski P., Lazarek M., 2009, *Czynniki kształtujące konkurencyjność regionów*. Zeszyty Naukowe SGGW, Polityki Europejskie, Finanse I Marketing, 1(50): 307-315.
- Grabow D. Henckel B., 1995, *Hollbach-Gromig. Wieche Stan-dortfaktoren*. Schriften des Deutschen Institut für Urbanistic, Band 89, Stuttgart – Berlin – Koln.
- Graham C., Naim M., 1998, *The Political Economy of Institutional Reform in Latin America*, [w:] *Beyond Tradeoffs: Market Reforms and Equitable Growth in Latin America*, N. Birdsall, C. Graham, R. H. Sabot (red.). Brookings Institution Press, Washington DC.
- Gryczka M., 2021, *The Impact of Educational Factor on Innovation and Competitiveness of Middle-Income Countries*. European Research Studies Journal, t. XXIV, Special Issue 1: 171-186.

- Gunesch K., 2018, *A Critical Comparison of Environmental Economics and Ecological Economics Combined with the Creative Value System of Degrowth, for a Macroeconomically Efficient and Equitable Sustainable Development*. Review of Socio-Economic Perspectives, 3(2): 31-50, DOI: 10.19275/RSEP049.
- Guo H., Yang Ch., Liu X., Li Y., Meng Q., 2018, *Simulation Evaluation of Urban Low-carbon Competitiveness of Cities within Wuhan City Circle in China*. Sustainable Cities and Society, 42: 688-701.
- Hao Y. et al., 2018, *How Harmful Is Air Pollution to Economic Development? New Evidence from PM2.5 Concentrations of Chinese Cities*. Journal of Cleaner Production, 172: 743-757.
- Hayek F. A., 2006, *Konstytucja wolności*. Wyd. Naukowe PWN, Warszawa.
- Herbst M., 2007, *Kapitał ludzki i kapitał społeczny a rozwój regionalny*. Scholar, Warszawa.
- Herrington G., 2021, *Update to Limits to Growth: Comparing the World3 Model with Empirical Data*. Journal of Industrial Ecology, 25: 614-626, [https://doi.org/10.1111/jiec.13084].
- Hsiang S. M., Narita D., 2012, *Adaptation to Cyclone Risk: Evidence from the Global Cross-section*. Climate Change Economics (CCE), 3(2): 1-28.
- Huggins R., Izushi H., 2008, *Benchmarking the Knowledge Competitiveness of the Globe's high Performing Regions: A Review of the World Knowledge Competitiveness Index*. Competitiveness Review, 18, (1/2): 70-86.
- Huggins R., Thompson P., Prokop D., 2019, *UK Competitiveness Index*. Cardiff University, Cardiff.
- Huggins R., Prokop D., Thompson P., 2021, *UK Competitiveness Index 2021*. Cardiff University, Cardiff: 122, [http://irep.ntu.ac.uk/id/eprint/44799].
- Hughes N., Strachan N., 2010, *Methodological Review of UK and International Low Carbon Scenarios*. Energy Policy, 38(10): 6056-6065.
- Hult G. T. M., Ketchen D., Arrfel M., 2007, *Strategic Supply Chain Management: Improving Performance through a Culture of Competitiveness and Knowledge Development*. Strategic Management Journal, 28 (10): 1035-1052.
- IMD World Digital Competitiveness Ranking, 2020, International Institute for Management Development, Lausanne.
- Isaksen A., Normann R. H., Spilling O. R., 2017, *Do General Innovation Policy Tools Fit All? Analysis of the Regional Impact of the Norwegian Skattefunn Scheme*. Journal of Innovation and Entrepreneurship, 6(1): 1-14, DOI: [https://doi.org/10.1186/s13731-017-0068-x].
- Istomina A. I., Vinogradova M. V., Lukyanova A. V., Dobrovolskaya O. P., Prodanova N. A., 2020, *Leadership in the Digital Age: a New Strategy for the Competitiveness of Countries and Macro Regions*. Revista Espacios, 41(7): 219-235.
- Jain E., Yadav A., 2017, *Marketing and Technology: Role of Technology in Modern Marketing*. IOSR Journal of Business and Management, 19: 49-53. DOI: [https://doi.org/10.9790/487X-1905064953].
- Jankowska B., Sulimowska-Formowicz M., 2009, *Koncepcje konkurencji w ekonomii*, [w:] *Kompendium wiedzy o konkurencyjności*, M. Gorynia, E. Łażniewska (red.). Wyd. Naukowe PWN, Warszawa.
- Jeschke S., Brecher C., Meisen T., Özdemir D., Eschert T., 2017, *Industrial Internet of Things and Cyber Manufacturing Systems*. Industrial Internet of Things: 3-19, Springer, Cham.
- Jespersen J., 2016, *Macroeconomic Stability: Sustainable Development and Full Employment*. Research Paper from the Department of Social Sciences, 4(1): 1-22, Roskilde University.
- Jiang Y. G., Zhang J., Asante D., Yang Y., 2019, *Dynamic Evaluation of Low-carbon Competitiveness (LCC) Based on Improved Technique for Order Preference by Similarity to*

- an Ideal Solution (TOPSIS) Method: A Case Study of Chinese Steelworks*. *Journal of Cleaner Production*, 217: 484-492.
- Kaaret K., Tool B., Suik K., Kirsimaa K., 2022, *Reaching Climate Neutrality in Estonia: a Progress Update*. SEI working paper.
- Kagermann H., 2015, *Change through Digitization – Value Creation in the Age of Industry 4.0*. In *Management of permanent change: 23-45*, Springer Gabler, Wiesbaden.
- Kahn M. E., Mohaddes K., Ng R. N. C., Hashem Pesaran M., Raissi M., Yang J. Ch., 2019, *Long-Term Macroeconomic Effects of Climate Change: A Cross-Country Analysis*. International Monetary Fund Working Papers, 215.
- Kamble S. S., Gunasekaran A., Gawankar S. A., 2018, *Sustainable Industry 4.0 Framework: A Systematic Literature Review Identifying the Current Trends and Future Perspectives*. *Process safety and environmental protection*, 117: 408-425.
- Karaczun Z. M., 2022, *Świadomość istniejących zagrożeń i możliwych rozwiązań w społeczeństwie a przyzwolenie na progresywną politykę klimatyczną*. [https://chronmyklimat.pl/media/espada/filesupload/articles/files-1624/wiadomosc-istniejacych-zagrozen-i-mozliwych-rozwiazan-w-spoleczenstwie_z/].
- Karman A., Miszczuk A., Bronisz U., 2021, *Regional Climate Change Competitiveness – Modelling Approach*. *Energies*, MDPI, 14(12): 1-17.
- Kassenberg A., 2022, *Energia dla niezależności 2050. Podsumowanie konferencji*. [<https://chronmyklimat.pl/konferencja/rejestracja/>].
- Kasztelan A., 2010, *Środowiskowa konkurencyjność regionów – próba konceptualizacji*. *Problemy Ekorozwoju*, 5(2): 77-86.
- Ketels C., 2016, *Competitiveness Framework*. An analysis conducted for the Irish National Competitiveness Council, Dublin.
- Ketels C, Porter M. E., 2020, *Rethinking the Role of the EU in Enhancing European Competitiveness*. *Competitiveness Review*, 31(2): 189-207, [<https://doi.org/10.1108/CR-08-2020-0100>].
- Kiełczewski D., 2021, *Koncepcja zintegrowanej teorii ekonomicznej zrównoważonego rozwoju. Między mainstreamem a heterodoksją ekonomiczną*. Wyd. Uniwersytetu w Białymstoku, Białystok.
- Kistowski M., 2003, *Regionalny model zrównoważonego rozwoju i ochrony środowiska Polski a strategię rozwoju województw*. Uniwersytet Gdański, Bogucki Wyd. Naukowe, Gdańsk – Poznań.
- Kistowski M., Kałamucka W., 2021, *Rola zrównoważonego rozwoju w harmonizacji procesów społecznych, gospodarczych i przyrodniczych*. [w:] *System obszarów chronionych Roztocza w Polsce i na Ukrainie a rozwój zrównoważony regionu*, W. Kałamucka, T. Grabowski (red.). Roztoczański Park Narodowy, Wyd. UMCS, Zwierzyniec – Lublin: 15-22.
- Kita K., 2014, *Konkurencyjność polskiego handlu rolno-spożywczego na rynkach krajów spoza Unii Europejskiej*, Wyd. Uniwersytetu Przyrodniczego w Poznaniu.
- Kitson M., Martin R., Tyle P., 2004, *Regional Competitiveness: An Elusive yet Key Concept?* *Regional Studies*, 38: 991-999, [<http://dx.doi.org/10.1080/0034340042000320816>].
- Klasik A. (red.), 2013, *Rozwój gospodarki kreatywnej na obszarach metropolitalnych*. Wyd. UE, Katowice.
- Kociszewska-Panaszek M., 2004, *Uwarunkowania ekologiczne w kontekście konkurencyjności polskich przedsiębiorstw*. *Gospodarka w Praktyce i Teorii*, 1(14): 50-58.
- Kola-Bezka M., 2015, *Wybrane uwarunkowania klimatu przedsiębiorczości w regionach wschodniego pogranicza UE i Białorusi*, [w:] *Gospodarka regionalna w teorii i praktyce*,

- E. Sobczak, D. Głuszczyk, M. Obrębalski (red.). *Prace Naukowe UE we Wrocławiu*, nr 392, Wrocław: 36-44.
- Komunikat Komisji do Parlamentu Europejskiego, Rady Europejskiej, Rady, Komitetu Ekonomiczno-Społecznego i Komitetu Regionów: Europejski Zielony Ład*, 2019, Komisja Europejska, 11.12.2019 r. COM(2019) 640, Bruksela.
- Kostrubiec B., 1972, *Analiza zjawisk koncentracji w sieci osadniczej: problemy metodyczne*, IGiPZ PAN, Prace Geograficzne, nr 93, Ossolineum, Wrocław.
- Kotler P., Trias de Bes F., 2004, *Marketing lateralny*. PWE, Warszawa.
- Kowalski A. M., 2013, *Znaczenie klastrów dla innowacyjności gospodarki w Polsce*. Oficyna Wyd. SGH, Warszawa.
- Kozłowski S. G., 2004, *Systemy ekonomiczne*. Wyd. UMCS, Lublin.
- Kroll H., Stahlecker T., Peter V., Leon L. R., 2012, *Regional Innovation in the Innovation Union*. Publications Office of the European Union, Luxembourg.
- Kruk H., 2014, *Hipoteza rajów dla zanieczyszczeń – ujęcie teoretyczne*. *Prace Naukowe UE we Wrocławiu*, 347: 272-281.
- Kuczevska J., 2012, *The Importance of Innovation Policy in Constructing a Competitive Advantage – a Regional Approach*. *Zeszyty Naukowe UE w Poznaniu*, 246: 152-165.
- Kucznik K., 2019, *Gospodarka oparta na wiedzy jako trend stymulujący zarządzanie talentami*, [w:] *Współczesne problemy ekonomiczne w badaniach młodych naukowców*. T. 3, *Analizy makro- i mezoekonomiczne*, E. Gruszevska, M. Roszkowska (red.). PTE Oddział w Białymstoku, Białystok: 134-149.
- Latruffe L., 2010, *Competitiveness, Productivity and Efficiency in the Agricultural and Agri-food Sectors*. Working paper, OECD Food, Agriculture and Fisheries Working Papers, nr 30, OECD Publishing.
- Lee K. D., Lee W., Kang K., 2014, *Pollution Haven with Technological Externalities Arising from Foreign Direct Investment*. *Environmental & Resource Economics*, 57(1): 1-18.
- Leonidou L. C., Palihawadana D., Theodosiou M., 2011, *National Export-promotion Programs as Drivers of Organizational Resources and Capabilities: Effects on Strategy, Competitive Advantage and Performance*. *Journal of International Marketing*, 19(2): 1-29.
- Li J. J., 2011, *Competitiveness of Chinese Low-Carbon Economy*. Ph. D. Thesis, Fujian Normal University, Fuzhou, China.
- Li M., 2009, *The Customer Value Strategy in the Competitiveness of Companies*. *International Journal of Business and Management*, 4 (2): 136-137.
- Liptáková J., 2021, *Slovakia's Industry Strives to Be Greener, Needs More Money and Time*. *Slovakia's Industry Strives to Be Greener, Needs More Money and Time*. *The Slovak Spectator*, 5th October.
- Liu Y., Wang N., Zhao J., 2018, *Relationships between Isomorphic Pressures and Carbon Management Imitation Behaviour of Firms*. *Resources, Conservation & Recycling*, 138: 24-31.
- Łuszczyc M., 2021, *Ekonomia trwałego rozwoju*. PWE, Warszawa.
- Malovics G., 2007, *The Role of Natural Capital in Regional Development*. 2nd Central European Conference in Regional Science-CERS, Technical University of Kosice: 648-655.
- Markowski T., 2005, *Przedmiotowa i podmiotowa konkurencyjność regionów*, [w:] *Współczesne problemy i koncepcje teoretyczne badań przestrzenno-ekonomicznych*, T. Czyż, H. Rogacki (red.). Biuletyn KPZK PAN, z. 219, Warszawa.
- Martin R., Sunley P., 2015, *On the Notion of Regional Economic Resilience: Conceptualization and Explanation*. *Journal of Economic Geography*, 15(1): 1-42.

- Marszał T., Markowski T., 1998, *Konkurencyjność regionów jako element polityki przestrzennej*, [w:] *Współczesne problemy rozwoju regionalnego*, T. Marszał, M. Opałło (red.), Biuletyn KPZK PAN, z. 180, Warszawa.
- McKenzie D., Sasin M., 2007, *Migration, Remittances, Poverty and Human Capital: Conceptual and Empirical Challenges*. Policy Research Working Paper, 4272, The World Bank, Washington DC.
- McKinsey & Company, 2009, *Energy: a Key to Competitive Advantage*, [https://www.mckinsey.com/~media/mckinsey/dotcom/client_service/sustainability/pdfs/energy_competitive_advantage_in_germany.ashx].
- Meadows D. H., Meadows D. L., Randers J., Behrens W. W., 1973, *Granice wzrostu*. PWE, Warszawa.
- Melenciu S., 2018, *Report: Romania Slowly Catching up to the Rest of the EU While Bulgaria Lags Behind*. [<https://business-review.eu/business/report-romania-slowly-converges-on-the-rest-of-the-eu-while-bulgaria-lags-behind-185349>].
- Menguc B., Auh S., Ozanne L., 2010, *The Interactive Effect of Internal and External Factors on a Proactive Environmental Strategy and Its Influence on a Firm's Performance*. Journal of Business Ethics, 94(2): 279-298.
- Meyer-Stamer J., 2008, *Systemic Competitiveness and Local Economic Development*. Meso Partner, Duisberg.
- Michalak J., 2014, *Teoretyczne aspekty konkurencyjności regionu*. Zeszyty Naukowe Uniwersytetu Szczecińskiego. Problemy Zarządzania, Finansów i Marketingu, 35: 39-48.
- Mihailova I., Panibratov A., Latukha M., 2020, *Dismantling Institutional Complexity Behind International Competitiveness of Emerging Market Firms*. Thunderbird International Business Review, 62(1): 77-92.
- Mikołajewicz Z., 1999, *Czynniki konkurencyjności rozwoju regionów*, [w:] *Konkurencyjność miast i regionów Polski Południowo-Zachodniej*, R. Broszkiewicz (red.). Wyd. AE we Wrocławiu, 821, Wrocław: 41-51.
- Milovic N., Mijat J., Martinović N., 2021, *Analysis of the Impact of Macroeconomic Stability on the Level of Global Competitiveness of Western Balkan Countries*. Journal of Central Banking Theory and Practice, 10: 23-37.
- Miśkiewicz D., 2018, *Ekonomiczne determinanty atrakcyjności inwestycyjnej w tle ograniczeń budżetowych*. Współczesne Problemy Ekonomiczne, 1(16): 39-56.
- Mizgajski J. T., Mizgajski A., 2022, *Globalne, europejskie i polskie dylematy polityki rozwoju wobec zmian klimatu – próba usystematyzowania*. Rozwój Regionalny i Polityka Regionalna, 14(58): 73-92.
- Möbius P., Althammer W., 2020, *Sustainable Competitiveness: a Spatial Econometric Analysis of European Regions*. Journal of Environmental Planning and Management, 63(3): 453-480.
- Morawiecka M., 2022, *Kierunki aktualizacji PEP2040 w świetle zmian geopolitycznych oraz polityki klimatycznej UE*. [https://www.chronmyklimat.pl/media/espada/filesupload/articles/files-1624/kierunki-aktualizacji-kpeikpep2050-w-swietle-zmian-geopolitycznych_monika-morawiecka.pdf].
- Muluneh M. G., 2021, *Impact of Climate Change on Biodiversity and Food Security: a Global Perspective – a Review Article*. Agric & Food Secur, 10(36): 1-25.
- Nakata T., Lamont A., 2001, *Analysis of the Impacts of Carbon Taxes on Energy Systems in Japan*. Energy Policy, 29(2): 159-166.
- Negrea A. P., Cojanu V., 2013, *Supporting Regional Competitiveness through Innovation. Case Study: Sud Muntenia*. Journal of International Studies, 6(1): 51-58.

- Neumayer E., 2001, *Pollution Havens: an Analysis of Policy Options for Dealing with an Elusive Phenomenon*. *Journal of Environment & Development*, 10(2): 147-177.
- New Climate Economy*, 2014, *Better Growth, Better Climate: The New Climate Economy Report*. World Resources Institute, Washington DC, [https://newclimateeconomy.report/2014/wp-content/uploads/sites/2/2014/08/NCE-Global-Report_web.pdf].
- Nijkamp P., 1986, *Infrastructure and Regional Development: A Multidimensional Policy Analysis*. *Empirical Economics*, 11(1): 1-21.
- Niklewicz-Pijaczyńska N., Wachowska M., 2012, *Wiedza-Kapitał Ludzki-Innowacje*. Prawnicza i Ekonomiczna Biblioteka Cyfrowa, Wrocław.
- Nosalska K., Piątek Z. M., Mazurek G., Rządca R., 2020, *Industry 4.0: Coherent Definition Framework with Technological and Organizational Interdependencies*. *Journal of Manufacturing Technology Management*, 31(5): 837-862.
- Nowak P., 2011, *Nowy paradygmat rozwoju regionalnego na przykładzie wybranych regionów Europy Zachodniej*. Praca doktorska, UE, Poznań.
- OECD, 2015, *The Innovation Imperative: Contributing to Productivity, Growth and Well-being*, OECD Publishing, Paris.
- OECD, 2019, *OECD Skills Strategy Poland: Assessment and Recommendations*, OECD Skills Studies, OECD Publishing, Paris, [<https://doi.org/10.1787/b377fbcc-en>].
- OECD, 2021, *Competitiveness in South East Europe 2021: A Policy Outlook, Competitiveness and Private Sector Development*, OECD Publishing, Paris.
- OECD/Eurostat, 2018, *Oslo Manual 2018: Guidelines for Collecting, Reporting and Using Data on Innovation*, 4th Edition, The Measurement of Scientific, Technological and Innovation Activities, OECD Publishing, Paris/Eurostat, Luxembourg.
- Oesterreich T. D., Teuteberg F., 2016, *Understanding the Implications of Digitisation and Automation in the Context of Industry 4.0: A Triangulation Approach and Elements of a Research Agenda for the Construction Industry*. *Computers in industry*, 83(C): 121-139.
- Ostrouch T., Sługocki W., 2018, *Space and Population – Competitiveness Determinants of Countries in the Age of Globalization*. *Management*, 22(2), 121-140.
- Our Common Future*, 1987, The World Commission on Environment and Development, *Our Common Future*, [<https://sustainabledevelopment.un.org/content/documents/5987our-common-future.pdf>].
- Palei T., 2015, *Assessing the Impact of Infrastructure on Economic Growth and Global Competitiveness*. *Procedia Economics and Finance*, 23, 168-175.
- Pao H. T. M., Tsai C. M., 2010, *CO₂ Emissions, Energy Consumption and Economic Growth in BRIC Countries*. *Energy Policy*, 38 (12): 7850-7860.
- Parker S. K., Williams H. M, Turner N., 2006, *Modeling the Antecedents of Proactive Behavior at Work*. *Journal of Applied Psychology*, 91(3): 636-652.
- Patorska J., 2017, *Ekonomiczne skutki smogu*. *Sustainability Insights*, 12. [<https://www2.deloitte.com/pl/pl/pages/zarzadzania-procesami-i-strategiczne/articles/sustainability-insights/ekonomiczne-skutki-smogu.html>].
- Petronela N. A., Cojanu V., 2013, *Supporting Regional Competitiveness through Innovation. Case Study: Sud Muntenia*. *Journal of International Studies*, 6(1): 51-58.
- Pluskota P., 2010, *Ekonomiczne aspekty ochrony środowiska*, [w:] *Gospodarka a środowisko a ekologia*, K. Małachowski (red.). CeDeWu, Warszawa: 73-104.
- Porter M. E., 1990, *The Competitive Advantage of Nations*. Free Press, New York NY.
- Porter M. E., 2001, *Strategy and the Internet*. *Harvard Business Review*, [<http://www.pearsoned.ca/highered/divisions/text/cyr/readings/PorterT1P1R1.pdf>].

- Porter M. E., van der Linde C., 1995, *Toward a New Conception of the Environment Competitiveness Relationship*. *Journal of Economic Perspectives*, 9: 97-118.
- Poskrobko B., 2007, *Teoretyczne podstawy budowy systemu zarządzania środowiskiem*, [w:] *Zarządzanie środowiskiem*, B. Poskrobko (red.). PWE, Warszawa: 9-76.
- Prandecki K., 2007, *Ochrona środowiska w teorii ekonomii*. *Ekonomia i Środowisko*, 2(32): 21-35.
- Putnam R. D., 2000, *Bowling Alone: American's Declining Social Capital*. *Journal of Democracy*, 6(1): 65-78.
- Pyrka M., Jeszke R., Boratyński J., Tatarewicz I., Witajewski-Baltvilks J., Rabięga W., Wąs A., Kobu P., Lewarski M., Skwierz S., Gorzałczyński A., Tobiasz I., Roślaniec M., Cygle M., Sekuła M., Krupin V., 2021, *Mapa drogowa osiągnięcia wspólnotowych celów polityki klimatycznej dla Polski do 2050 r.* Kobize, IOS-BIP, Warszawa.
- Quadrelli R., Peterson S., 2007, *The Energy – Climate Challenge: Recent Trends in CO₂ Emissions from Fuel Combustion*. *Energy Policy*, 35: 5938-5952.
- Quigley J. M., 2008, *Urbanization, Agglomeration and Economic Development*. Working Paper, nr 19, Commission on Growth and Development.
- Radiojević V., Krstić B., Stanisić T., 2018, *The Role of Technological Readiness in the Global Competitiveness of Serbian Economy*. *Facta Universitatis, Series: Economics and Organization*, 15: 111-123.
- Ravallion M., Chen S., Sangraula P., 2007, *New Evidence on the Urbanization of Global Poverty*. *World Bank Policy, Research Working Paper*, 4199.
- Riedy C., 2016, *Climate Change*, [w:] *Blackwell Encyclopedia of Sociology*, G. Ritzer (red.). Malden: Wiley-Blackwell.
- Rogerson R., 1999, *Quality of Life and City Competitiveness*. *Urban Studies*, 36, 10.
- Rubin D. B., 1976, *Inference and Missing Data*. *Biometrika*, 63 (3): 581-592.
- Sachs J. D., Warner A. M., 2001, *Natural Resources and Economic Development. The Curse of Natural Resources*. *European Economic Review*, 45: 827-838.
- Sanders A., Elangeswaran C., Wulfsberg J. P., 2016, *Industry 4.0 Implies Lean Manufacturing: Research Activities in Industry 4.0 Function as Enablers for Lean Manufacturing*. *Journal of Industrial Engineering and Management (JIEM)*, 9(3): 811-833.
- Schaller L., Targetti S., Villanueva A. J., Zasada I., Kantelhardt J., Arriaza A., Bal T., Bossi Fedrigotti V., F. Giray H., Häfner K., Majewski E., Malak-Rawlikowska A., Nikolov D., Paoli J. Ch., Piorr A., Rodríguez-Entrena M., Ungaro F., Verburg P. H., van Zanten B., Viaggi D., 2018, *Agricultural Landscapes, Ecosystem Services and Regional Competitiveness – Assessing Drivers and Mechanisms in Nine European Case Study Areas*. *Land Use Policy*, 76: 735-745.
- Schwab K., 2014, *The Global Competitiveness Report*. World Economic Forum, Switzerland, [https://www3.weforum.org/docs/WEF_GlobalCompetitivenessReport_2014-15.pdf].
- Schwab K., 2018, *The Global Competitiveness Index*. World Economic Forum, Switzerland, [<https://www3.weforum.org/docs/GCR2018/05FullReport/TheGlobalCompetitivenessReport2018.pdf>].
- Schwab K., 2019, *The Global Competitiveness Index*. World Economic Forum, Switzerland, [https://www3.weforum.org/docs/WEF_TheGlobalCompetitivenessReport_2019.pdf].
- Schwab K., Zahidi S., 2020, *The Global Competitiveness Report Special Edition 2020: How Countries Are Performing on the Road to Recovery*. World Economic Forum, Switzerland, [https://www3.weforum.org/docs/WEF_TheGlobalCompetitivenessReport2020.pdf].
- Shukai C., Haochen W., Xiaohong Z., 2021, *Do City Size and Population Density Influence Regional Innovation Output Evidence from China?* *Wireless Communications and Mobile Computing*: 1-10, DOI: [<https://doi.org/10.1155/2021/3582053>].

- Si X. S., Li T., Zhang J., Lei Y., 2022, *Nonlinear Degradation Modeling and Prognostics: A Box-Cox Transformation Perspective*. Reliability Engineering & System Safety, 217, 108120.
- Sirmon D. G., Hitt M. A., Ireland R. D., Gilbert B. A., 2011, *Resource Orchestration to Create Competitive Advantage Breadth, Depth and Life Cycle Effects*. Journal Management, 37 (5), 1390-1412.
- Skórska A., 2019, *R&D Activity as a Factor of Regional Competitiveness*. Scientific Papers of Silesian University of Technology. Organization and Management Series, 139: 525-539, DOI: [http://dx.doi.org/10.29119/1641-3466.2019.139.41].
- Smith A., 2015, *Badania nad naturą i przyczynami bogactwa narodów*. Wyd. Naukowe PWN, Warszawa.
- Snieska V., Bruneckiene J., 2009, *Measurement of Lithuanian Regions by Regional Competitiveness Index*. Inżynierine Ekonomika-Engineering Economics, (1): 45-57.
- Sokolowicz M. E., 2008, *W kierunku nowej polityki regionalnej? Rozważania nad przyszłym kształtem polityki regionalnej w Polsce*, [w:] *Polityka spójności: ocena i wyzwania*. Materiały konferencyjne, Warszawa.
- Songling Y., Ishtiaq M., Anwar M., Ahmed H., 2018, *The Role of Government Support in Sustainable Competitive Position and Firm Performance*. Sustainability, 10, 3495, DOI: [https://doi.org/10.3390/su10103495].
- Srivastav S., Fankhauser S., Kazaglis A., 2018, *Low-Carbon Competitiveness in Asia*. Economies, 6(1): 5.
- Stiglitz J. E., Fitoussi J.-P., Durand M., 2018, *Beyond GDP. Measuring what Counts for Economic and Social Performance*. OECD Publishing, Paris.
- Strachan N., Foxon T., Fujino J., 2008, *Modeling Long-Term Scenarios for Low Carbon Societies (Climate Policy)*. Earthscan Publication, London.
- Szamrej-Baran I., 2012, *Konkurencyjność gospodarki Polski na tle wybranych gospodarek Unii*, [w:] *Uwarunkowania konkurencyjności przedsiębiorstw i gospodarki w XXI w.*, B. Kryk (red.). Studia i Prace Wydziału Nauk Ekonomicznych i Zarządzania, nr 25, Szczecin.
- Szász L., Demeter K., Rác B. G., Losonci, D., 2020, *Industry 4.0: a Review and Analysis of Contingency and Performance Effects*. Journal of Manufacturing Technology Management, 32(3): 667-694.
- Śleszyński J., 2011, *Obrona syntetycznych wskaźników rozwoju trwałego*, [w:] *Ekonomia zrównoważonego rozwoju w świetle kanonów nauki*, B. Poskrobko (red.). WSE, Białystok: 82-98.
- Taylor E., 2015, *Przyroda*, [w:] *Geografia ekonomiczna*, K. Kuciński (red.). Oficyna a Wolters Kluwer Bussines, Warszawa: 61-86.
- The Edelman Trust Barometer*, 2022, [https://www.edelman.com/sites/g/files/aatuss_191/files/2022-01/2022%20Edelman%20Trust%20Barometer%20FINAL_Jan25.pdf].
- The EU Regional Competitiveness Index*, 2019, [https://cohesiondata.ec.europa.eu/stories/s/Regional-Competitiveness-Index-2019/363v-4uq6].
- The Global Risk Report*, 2022, [https://www3.weforum.org/docs/WEF_The_Global_Risks_Report_2022.pdf].
- The Health Benefits of Greenhouse Gas Reduction Policies*, 2012, [http://www.env-health.org/IMG/pdf/heal_background_paper_climate_co-benefits_en.pdf].
- Thornton P. K., Ericksen P. J., Herrero M., Challinor A., 2014, *Climate Variability and Vulnerability to Climate Change: a Review*. Global Change Biology, 20: 3313-3328.
- Tiba S., Omri A., 2017, *Literature Survey on the Relationships Between Energy, Environment and Economic Growth*. Renew. Sustain. Energy Rev., 69: 1129-1146.

- Tinashe Ch. D., Kelvin Ch., 2016, *The Impact of Electronic Banking on the Competitiveness of Commercial Banks in Zimbabwe (2014-2015)*. *Case Studies Journal*, 5(11): 13-20.
- UNIDO, 2020, *Circular Economy*, UNIDO, Vienna.
- Vlachvei A., Notta O., Karantininis K., Tsounis N. (red.), 2016, *Factors Affecting Firm Competitiveness and Performance in the Modern Business World*. IGI Global.
- Wang H., Chen Q., 2014, *Impact of Climate Change Heating and Cooling Energy Use in Buildings in the United States*. *Energy and Buildings*, 82: 428-436.
- Wang S. Y., Liao C. T., Xu S. X., Huang M., 2014, *Central China's Low-carbon Development Competitiveness Assessment Oriented to People's Livelihood and Well-being: Based on AHP-TOPSIS Methods*. *Areal Research and Development*, 33(6): 153-158.
- Wang Y., Lan Q., Jiang F., Chen C., 2020, *Construction of China's Low-carbon Competitiveness Evaluation System: A Study Based on Provincial Cross-section Data*. *International Journal of Climate Change Strategies and Management*, 12(1): 74-91.
- Wessely J., Hülber K., Gattringer A., Kuttner M., Moser D., Rabitsch W., Essl F., 2017, *Habitat-based Conservation Strategies Cannot Compensate for Climate-change-induced Range Loss*. *Nature Climate Change*, 7(11): 823.
- Winiarski B., 2004, *Polityka gospodarcza*. Warszawa.
- Właźlak K., 2010, *Rozwój regionalny jako zadanie administracji publicznej*. Oficyna Wolters Kluwer Business, Warszawa.
- World Competitiveness Yearbook*, 2022, IMD, [<https://worldcompetitiveness.imd.org/rankings/WCY>].
- World Health Organization*, 2013, *Health and the Environment in the WHO European Region. Creating Resilient Communities and Supportive Environments*, [<http://www.euro.who.int>].
- Wosiek R., 2019, *Konkurencyjność technologiczna polskiej gospodarki. Stan obecny i perspektywy zmian*. *Nierówności Społeczne a Wzrost Gospodarczy*, 57(1): 230-242. DOI: [10.15584/nsawg.2019.1.15].
- WWF, 2022, [<https://www.wwf.pl/aktualnosci/zmiana-klimatu-w-pigulce>].
- Zaucha J., Ciołek D., Brodzicki T., Głazek E., 2014, *Wrażliwość polskich regionów na wyzwania gospodarki globalnej*, [w:] *Wrażliwość polskich regionów na wyzwania współczesnej gospodarki. Implikacje dla polityki rozwoju regionalnego*, K. Gawlikowska-Hueckel, J. Szlachta (red.). Oficyna Wolters Kluwer Business, Warszawa: 206-244.
- Zitkus L., 2015, *New Approach to Regional Competitiveness as Instrument of Regional Development*. *European Integration Studies*, 9: 114-126.
- Zivin J. G., Neidell M., 2013, *Environment, Health, and Human Capital*. *J. Econ. Lit.*, 51 (3): 689-730.
- Zuoza A., Pilinkiene V., 2021, *Energy Efficiency and Carbon Emission Impact on Competitiveness in the European Energy Intensive Industries*. *Energies*, 14, 4700.