

研究業績

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[学術論文 (2017年～)]

- Hahn, T., Sioen, G.B., Gasparatos, A., Elmqvist, T., Brandizio, E., Gomez-Baggethun, E., Folke, C., Setiawati, M.D., Atmaja, T., Arini, E.Y., Jarzebski, M.P., Fukushi, K., **Takeuchi, K.**: Insurance value of biodiversity in the Anthropocene is the full resilience value. *Ecological Economics* 208, 2023, 107799.
- 武内和彦：生物多様性を巡る最近の国際動向。月刊 経団連，8月号，42-43，2022.
- Yoshida, Y., Matsuda, H., Fukushi, K., **Takeuchi, K.**, Watanabe, R.: The missing intangibles: nature's contribution to human well-being through place attachment and social capital. *Sustainability Science* 17, 809-822, 2022.
- Falk, J., Attig-Bahar, F., Colwell, R.R., Bahera, S.K., El-Baltagy, A.S., von Braun, J., Dasgupta, P., Gleick, P.H., Kaneko, R., Kennel, C.F., Koundouri, P., Lee, Y.T., Lovejoy, T.E., Luers, A., Murray, C.A., Lal, R., Serageldin, I. Sokona, Y., **Takeuchi, K.**, Taniguchi, M., Watanabe, C., Yasunari, T.: Addressing our planetary crisis – Consensus statement from the presenters and International Advisory Committee of the Regional Action on Climate Change (RACC) symposium held in conjunction with the Kyoto-based Science and Technology in Society (STS) Forum, 1 October 2021. *Sustainability Science* 17, 5-7, 2022.
- 武内和彦：統合的アプローチによるSDGsのローカル化。公園緑地，82(3)，1，2021.
- 武内和彦：脱炭素・自然共生によるランドスケープの創造。ランドスケープ研究，85(2)，92-95，2021.
- Warszawski, L., Kreiger, E., Lenton, T.M., Gaffney, O., Jacob, D., Klingensfeld, D., Koide, R., Costa, M.M., Messner, D., Nakicenovic, N., Schellnhuber, H.J., Schlossner, P., **Takeuchi, K.**, van der Leeuw, S., Whiteman, G., Rockstrom, J.: All options, not silver bullets, needed to limit global warming to 1.5°C: a scenario appraisal. *Environmental Research Letters*, 16, 1-14, 2021.
- Jarzebski, M.P., Elmqvist, T., Gasparatos, A., Fukushi, K., Eckersten, S., Haase, D., Goodness, J., Khoshkar, S., Saito, O., **Takeuchi, K.**, Theorell, T., Dong, N., Kasuga, F., Watanabe, R., Sioen, G.B., Yokohari, M., Pu, J.: Aging and population shrinking: Implications for sustainability in urban century. *Nature Urban Sustainability*, 1:17, 2021.
- Miyasaka, T., Miyamori, E., Okuro, T., Zhao, X., **Takeuchi, K.**: Comparison of nurse effect zones of shrubs versus trees for dryland rehabilitation in Northeast China. *Restoration Ecology*, 29: e13368, 2021.
- Ortiz-Moya, F., Kataoka, Y., Saito, O., Mitra, B.K., **Takeuchi, K.**: Sustainable

- transitions towards a resilient and decentralized future: Japan's Circulating and Ecological Sphere (CES). *Sustainability Science*, 16, 1717-1729, 2021.
- Baffoe, G., Zhou, X., Moinuddin, M., Somanje, A.N., Kuriyama, A., Mohan, G., Saito, O., **Takeuchi, K.**: Urban-rural linkages: effective solutions for achieving sustainable development in Ghana from an SDG interlinkage perspective. *Sustainability Science*, 16, 1341-1362, 2021.
- Hori, K., Saito, O., Hashimoto, S., Matsui, T., Akter, R. and **Takeuchi, K.**: Population distribution projections under depopulation conditions in Japan, for scenarios analysis of future socio-ecological systems. *Sustainability Science*, 16, 295-311, 2021.
- 武内和彦：コロナ時代の自然と人間との共生. KOSMOS 2021/WINTER, 8-13.
- Avtar, R., Yunus, A.P., Saito, O., Kharrazi, A., Kumar, P., **Takeuchi, K.**: Multi-temporal remote sensing data to monitor terrestrial ecosystem responses to climate variations in Ghana, *Geocarto International*, 35, 2020. <https://doi.org/10.1080/10106049.2020.1723716>
- Somanje, AN., Mohan, G., Lopes, J., Mensah, A., Gordon, C., Zhou, X., Moinuddin Saito, O. and **Takeuchi, K.**: Challenges and potential solutions for sustainable urban-rural linkages in a Ghanaian context. *Sustainability*, 12(2): 1-19, 2020.
- 武内和彦：地球規模課題のローカルな統合的解決を目指す「地域循環共生圏」。月刊資本市場, 406: 20-27, 2019.
- Elmqvist, T., Andersson, E., Frantzeskari, N., McPhearson., Olsson, P., Gaffney, O., **Takeuchi, K.**, Folke, C.: Sustainability and resilience for transformation in the urban century. *Nature Sustainability*, 2, 267-273, 2019.
- Kabaya, K., Hashimoto, S., Fukuyo, N., Uetake, T. **Takeuchi, K.** : Investing future ecosystem services through participatory scenario building and spatial ecological-economic modelling. *Sustainability Science*, 14, 77-88, 2019.
- Hashimoto, S., DasGupta, R., Kabaya, K., Matsui, T., Haga, C., Saito, O., **Takeuchi, K.**: Scenario analysis of land-use and ecosystem services of social-ecological landscapes: implications of alternative development pathways under declining population in the Noto Peninsula, Japan. *Sustainability Science*, 14, 5-21, 2019.
- Saito, O., Kamiyama, C., Hashimoto, S., Matsui, T., Shoyama, K., Kabaya, K., Uetake, T., Taki, H., Ishikawa, Y., Matsushita, K. Yamane, F., Hori, J., Ariga, T., **Takeuchi, K.**: Co-design of national-scale future scenarios in Japan to predict and assess natural capital and ecosystem services. *Sustainability Science*, 4, 5-21, 2019.
- 武内和彦：水資源分野で求められる超学際的研究。水文・水資源学会誌, 31(3): 149-151, 2018.
- Yoshida, Y., Matsuda, H., Fukushi, K., Ikeda, S., Managi, S., **Takeuchi, K.**: Assessing local-scale inclusive wealth: A case study of Sado Island, Japan. *Sustainability Science*, 13, 1399-1414, 2018
- Saito, O., Managi, S., Kanie, N., Kauffman, J., **Takeuchi, K.**: Sustainability science and implementing the sustainable development goals. *Sustainability Science*, 14, 1-4, 2017.
- Takeuchi, K.**, Saito, O., Lahoti, S., Gondor, D.: Growing up: 10 years of publishing sustainability science research. *Sustainability Science*, 12, 849-854, 2017.
- Kajikawa, Y., Saito, O., **Takeuchi, K.**: Academic landscape of 10 years of sustainability science. *Sustainability Science*, 12, 869-873, 2017.

- Jasaw, G.S., Saito, O., Gasparatos, A., Shoyama, K., Boafo, Y.A., **Takeuchi, K.**: Ecosystem services trade-offs from high fuelwood use for traditional shea butter processing in semi-arid Ghana, *Ecosystem Services*, 27:127-138, 2017
- Gasparatos, A., **Takeuchi, K.**, Elmqvist, T., Fukushi, K., Nagao, M., Swanepoel, F., Swilling, M., Trotter, D., von Blottniz, H.: Sustainability science for meeting Africa's challenges: setting the stage. *Sustainability Science*, 12: 635-640, 2017.
- Antwi, EK., Owusu-Banahene, W., Boakye-Danquah, J., Mensah, R., Tetteh, JD., Nagao, M., **Takeuchi, K.**: Sustainability assessment of mine-affected communities in Ghana: towards ecosystems and livelihood restoration. *Sustainability Science*, 12, 747-767, 2017.
- Miyasaka, T., Quang Bao Le Q.B., Okuro, T., Zhao, X., **Takeuchi, K.**: Agent-based modeling of complex social-ecological feedback loops to assess multi-dimensional trade-offs in dryland ecosystem services. *Landscape Ecology*, 32, 707-727, 2017.
- Kakinuma, K., Terui, A., Sasaki, T., Koyama, A., Jamsran, U., Ohkuro, T. and **Takeuchi, K.**: Detection of vegetation trends in highly variable environments after grazing exclusion in Mongolia. *Journal of Vegetation Science*, 28: 965-974, 2017.

[著書 (2017年～)]

- ディクソン=デクレーブ, S., ガフニー, O., ゴーシュ, J., ランダース, J., ロックストローム, J., ストックネス, P.E. (武内和彦 監訳, ローマクラブ日本 監修, 森秀行・高橋康夫ほか訳): *Earth for All 万人のための地球*. 丸善出版, 215pp., 2022.
- Gasparatos, A., Merle, N., Ahmed, A., Karanja, A., Fukushi, K., Saito, O., **Takeuchi, K.** eds.: *Sustainability Challenges in Sub-Saharan Africa II: Insights from Eastern and Southern Africa*. Springer, 268pp., 2020.
- Gasparatos, A., Ahmed, A., Merle, N., Karanja, A., Fukushi, K., Saito, O., **Takeuchi, K.** eds.: *Sustainability Challenges in Sub-Saharan Africa I: Continental Perspectives and Insights from Western and Central Africa*. Springer, 360pp., 2020.
- Saito, O., Subramanian, SM., Hashimoto, S. and **Takeuchi, K.** eds.: *Managing Socio-ecological Production Landscapes for Sustainable Communities in Asia*. Springer, 179pp., 2020.
- Aguirre-Bastos, C., Chaves-Chaparro, J., Saito, O., **Takeuchi, K.**: Sustainability science: Where and how?, pp. 21-36. In Aguirre-Bastos, C., Chaves-Chaparro, J. and Aricò, S. (eds): *Co-Designing Science in Africa: First steps in assessing the sustainability science approach on the ground*, UNESCO, Paris, 248pp, ISBN: 978-92-3-100319-6, 2019.
- 武内和彦: 里山ランドスケープの再生—戦略的に取り組む. 日本生命財団編: 人と自然の環境学. 東京大学出版会, 207-226, 2019.
- ロックシュトローム, J., クルム, M. (武内和彦, 石井菜穂子 監修: 谷淳也, 森秀行ほか 訳): *小さな地球の大きな世界*. 丸善出版, 242pp., 2018.
- Saito, O., Kranjac-Berisavljevic, G., **Takeuchi, K.**, and Gyasi, EA.: *Strategies for Building Resilience against Climate and Ecosystem Changes in Sub-Saharan Africa*. Springer, 343pp., 2018.
- Takeuchi, K.**, Shiroyama, H., Saito, O. and Matsuura, M. eds.: *Biofuels and Sustainability: Holistic Perspective for Policy-making*. Springer, 265pp., 2018.

- Takeuchi, K.**, Saito, O., Matsuda, H. and Mohan, G. eds.: Resilient Asia: Fusion of Traditional and Modern Systems for Sustainable Future. Springer, 196pp., 2018.
- Saito, O., Kranjac-Berisavljevic, G., **Takeuchi, K.** and Gyasi, E.A. eds.: Strategies for Building Resilience against Climate and Ecosystem Changes in Sub-Saharan Africa. Springer, 343pp., 2017.
- Takeuchi, K.**, Harashina, K., Hara, Y.: Establishing a Sustainable Community through Urban and Rural Fusion. Yokohari, M., Murakami, A., Hara, Y., Tsuchiya, K. (eds) Sustainable Landscape Planning in Selected Urban Regions, Springer, 27-38, 2017.