

List of Publications

The following articles arranged in each research field were published by our faculty members during April 2018 to March 2019. Our department and/or research groups also published the following publications.

- 1) Annals of Human and Regional Geography, 41 (2019)
- 2) Studies in Human Geography, 39 (2019)

The exchanges of the publications will be gratefully acknowledged.

[Symbols]

J in Japanese

JE in Japanese with English abstract

◦ The first author

* Researchers belonging to University of Tsukuba, not to the Doctoral Program in Geoenvironmental Sciences

** Researchers not belonging to University of Tsukuba

*** Undergraduate students, graduate students and auditors belonging to University of Tsukuba

[a] Human Geography

Akiyama, C. (2019): Spatial distribution and relocation potential of isolated dwellings in Japan using developed micro geodata. *Asia-Pacific Journal of Regional Science*, **3**(2), 605–621. (with Akiyama Y.**).

_____ (2019): Sustainability Study of Sewerage Project Based on Future Estimated Population. *Environmental Science*, **32**(2), 46-52. (**J**)

Kubo, T. (2019): *OECD Regions at a glance 2018 (Japanese edition)*. Akashi Shoten publisher, (**J**, with OECD***, translation by Nakazawa, T.***, Kuwatsuka, K.** , Kukimoto, M.** , Iijima, Y.** and Yui.Y.**)

_____ (2019): *The Rise in Vacant Housing in Post-Growth Japan: Housing Market, Urban Policy, and Revitalizing Aging Cities*. Tokyo, Springer Japan. (with Yui, Y.**)

_____ (2019): Why the rise in urban housing vacancies occurred and matters in Japan. In: Kubo, T. and Yui, Y. (eds.) *The Rise in Vacant Housing in Post-Growth Japan: Housing Market, Urban Policy, and Revitalizing Aging Cities*. 3-22, Springer. (with Mashita, M.**)

_____ (2019): Local responses to a rise in housing vacancies in the Nagoya suburbs. In: Kubo, T. and Yui, Y. (eds.) *The Rise in Vacant Housing in Post-Growth Japan: Housing Market, Urban Policy, and Revital-*

izing Aging Cities. 161-175, Springer. (with Otsuka, T.**)

_____ (2018): Housing studies to create sustainable residency. In: Yagasaki, N., Morishima, S. and Yokoyama, S. (eds.) *Series of Topics on Regional Geography No.3 Sustainability*. 114-123. Asakura Shoten publisher. (**J**)

_____ (2018): Changes in the Japanese urban system since the 1950s: Urbanization, demography, and the management function. In: Rozenblat, C., Pumain, D. and Velasquez, E. (eds.) *International and Transnational Perspectives on Urban Systems (Springer Series, Advances in Geographical and Environmental Sciences)*. 143-163. Springer Singapore. (with Abe, K.*** and Komaki, N.**)

_____ (2019): Housing supply and residential choices of residents of newly built detached houses in the suburbs of the Nagoya metropolitan area: A case study of Kani city, Gifu prefecture. *Annals of the Japanese Society of Urbanology* **52**, 131-140. (**J**, with Otsuka, T.**)

_____ (2019): Regional characteristics of Toyohashi as a gateway city. *Journal of Research Center for San-En-Nanshin Regional Collaboration, Aichi University*, 351-365. (**J**, with Abe, R.***, Hayashi, T.** , Tanaka, K.** , Kondo, A.** and Komaki, N.**)

_____ (2019). Backgrounds of the rise in problematic vacant housing in Japan. *Tokei (monthly Journal of JSTAT)* **2019.02**, 36-41. (**J**)

_____ (2019). Urban growth and decline in the age of skyscrapers. *Journal of Architecture and Building Science* **2019.02**, 19. (**J**)

Matsui, K (2019): What does “Hidden Christian” tell?: World Heritage Registration and Tourism on “Christian Sites in the Nagasaki Region”. *Geographical Space*, **11**, 253-268. (**J**)

_____ (2019): Creation of World Heritage Site and Commodification of Place. *Geographical Space*, **11**, 177-178. (**J**)

_____ (2018): Re-structuring of Tourism Space due to Changes of Tourism Forms in Oarai Town, Ibaraki Prefecture. *Geographical Space*, **11**, 47-62. (**J**, with Kawazoe, W.****, Sakamoto, Y., Kiba, K.***, Sato, S.*** and Watanabe, J.***)

_____ (2018): The Religious Space of Edo, Considering the Distribution and Functions of Temples and Shrines. In: Kikuchi, T. and Sugai, T. (eds.), *Tokyo*

as a Global City: New Geographical Perspectives, Tokyo, Springer, 91-113.

_____ (2018): Globalization and Religion. In: Yagasaki, N., Yamashita, K. and Kagami, M. (eds.). *Globalization -Shrinking World-*. Asakura Shoten, 101-112. (J)

_____ (2018): Outback Tourism and Urban Residents. In: Tsutsumi, J. (ed.). *Contemporary Transformation of Urban Societies in Australia*. Univ. of Tsukuba Press, 54-56. (J)

_____ (2018): Izu-Oshima Island. In: Hiraoka, A., Suyama, S. and Miyauchi, H. (eds.) *Encyclopedia of Japanese Islands*. Asakura Shoten, 60-65. (J)

_____ (2018): Hirado Island and Ikitsuki Island. In: Hiraoka, A., Suyama, S. and Miyauchi, H. (eds.) *Encyclopedia of Japanese Islands*. Asakura Shoten, 102-103. (J)

_____ (2018): Goto Islands. In: Hiraoka, A., Suyama, S. and Miyauchi, H. (eds.) *Encyclopedia of Japanese Islands*. Asakura Shoten, 104-107. (J)

[b] Regional Geography

Kureha, M. (2018): Assessing the sustainability of ski fields in southern Japan under global warming. *Advances in Meteorology*, **2018**, 10 pages. (with Suzuki-Parker, A.**, Miura, Y.** and Kusaka, H.)

_____ (2018): Changing ski resort in Niseko Region. *Chiri*, **63**(8), 24-31. (J)

_____ (2018): Elucidation of the tendency common to closed ski fields in Nagano Prefecture, Japan. *Journal of Ski Science*, **15**(1), 21-35. (JE, with Masuda, T.**)

_____ (2018): Development processes of ski resorts in the Austrian Alps: A case study of Ischgl in Tyrol. *Journal of Ski Science*, **15**(1), 49-60. (JE)

_____ (2019): Commodification of the world heritage site in Hallstatt, Austria: An analysis of overtourism in world cultural heritage sites in Europe. *Geographical Space*, **11**, 223-241. (JE)

_____ (2019): An analysis of trekking routes in Ötztal, the Austrian Alps: Towards the analysis development of trekking tourism. *Studies in Human Geography*, **39**, 1-18. (J, with Yoshizawa, N.*** and Matsumura, K.***)

_____ (2019): Preface. *Annals of Human and Regional Geography*, **41**, 2 pages. (J)

_____ (2019): Relationship between mountain guides and local community in the Central Alps: An analysis of related organizations in Ina City and Komagane City. *Annals of Human and Regional Geography*, **41**, 1-19. (J, with Matsumura, K.***, Yamamoto, J.*** and Sato, D.***)

_____ (2019): The reconstruction and redevelopment of Akiha Route in Nagano Prefecture, Japan. *Annals of Human and Regional Geography*, **41**, 21-32. (J, with Zhou, Y.***, Liu, F.***, Haga, M.*** and Zhang, Y.***)

_____ (2019): Relationship between cherry blossoms-sightseeing and changes of commercial function in Takato-machi, Ina-city. *Annals of Human and Regional Geography*, **41**, 33-52. (J, with Yoshizawa, N.***, Usui, H.***, Guo, Q.*** and Yagasaki, T.**)

_____ (2019): Overseas excursion for students who gather individually at foreign destinations. In Shimazu, H. and Ito, T. eds., *Overseas Excursion: Studying Geography*. Asakura Shoten, 24-33. (J)

_____ (2019): Agriculture in the Alps. In Kagami, M. eds., *Europe (World Regional Geography 11)*. Asakura Shoten, 44. (J)

_____ (2019): Tourism region and tourist movement. In Kagami, M. eds., *Europe (World Regional Geography 11)*. Asakura Shoten, 80-90. (J)

_____ (2019): Cross-border shopping tourism. In Kagami, M. eds., *Europe (World Regional Geography 11)*. Asakura Shoten, 148. (J)

_____ eds. (2019): *Geoenvieonmental Sciences, Rivised Edition*. Kokon-Shoin, 114 p. (J, with Matsuoka, N., Tanaka, H., Sugita, M., Hattanji, T., Matsui, K. and Kato, H.)

Tsutsumi, J. (2018): Rice industry trend in Australia. *Geographical Space*, **11**, 63-77. (J, with Sasaki, M.***, Isono, T.** and Nagata, S.**)

_____ (2019): Changing commercial functions in terms of newly opened shops in the central area of Ina City. *Annals of Human and Regional Geography*, **41**, 52-71. (J, with Komuro, J.***, Arimura, T.***, Kato Y.***, Bai, Y.***, Bu, E.*** and Hirauchi, Y.***)

_____ (2019): The impact of China-Australia connections on Australia's Metropolitan Areas 2001-2016. *Journal of Australian Studies*, **32**, 1-14. (with O'Connor, K.***)

_____ (2019): Changes in Australia around the time of world natural heritage registration. *Geographical Space*, **11**, 243-251. (J)

Yamashita, A. (2018): History of urban water use in Tokyo with focusing on surface and subsurface water as water sources. In Kikuchi, T. and Sugai, T. eds., *Tokyo as a Global City*, Springer, 115-135.

_____ (2018): A comparative analysis of land use changes in new and old central urban areas in Yangsan City, South Korea. *Papers and proceedings of the Geographical Information Systems Association*, **27**. (JE, with Komaki, N.**, Kaneko, J.**, Yamamoto, T.**)

Hashimoto, A. **, Jeon, J. ** and Lee, H. **)

_____ (2018): Transition of socioeconomic characteristics of Japanese immigrants in the middle of S an Francisco Valley. *Geographical Space*, **11**, 129-144. (J, with Hata, T.**))

_____ (2019): Farmland accumulation in hilly and mountainous areas: A case study of Habiro District, Ina City, Nagano Prefecture. *Annals of Human and Regional Geography*, **41**, 141-160. (J, with Sato, S. ****, Murakami, R. **, Jiang, M. ** and Hashimoto, M. **))

_____ (2019): Basin form ratio and basin relief ratio of Japanese major 109 river basins. *Studies in Human Geography*, **39**, 19-26. (J, with Iwai, Y. **, Kawazoe, W. **, Sato, S. ** and Suzuki, S. **))

_____ (2019): Mesh data analysis of watershed environment focusing on land use and water supply-demand. *Environmental Science*, **32**, 36-45. (JE))

[c] Spatial Information Science

Kusaka, H. (2018): Reproducibility of Wind Velocity Deficit in Wake Region Using Meteorological RANS Model and Wind Turbine Model without Blade Rotation Effect (Comparison with Large-Eddy Simulation Model). *Journal of Wind Engineering*, **43**(4), 131-142. (JE, with Sato, T. ****))

_____ (2018): Assessing the sustainability of ski fields in southern Japan under global warming. *Advances in Meteorology*, 10 pages, DOI: 10.1155/2018/8529748. (with Suzuki-Parker, A.  , Miura, Y. ** and Kureha, M.))

_____ (2018): Probabilistic Solar Irradiance Forecasting by Conditioning Joint Probability Method and its Application to Electric Power Trading. *IEEE Transactions on Sustainable Energy*, **10**(2), 983–993, DOI: 10.1109/TSTE.2018.2858777. (with Kakimoto, M. **, Endoh, Y. **, Hiromasa, S. ** and Ikeda, R.))

_____ (2018): Contributions of GCM/RCM uncertainty in ensemble dynamical downscaling for precipitation in East Asian summer monsoon. *SOLA*, **14**, 97–104, DOI:10.2151/sola.2018-017 (with Suzuki-Parker, A.  , Takayabu, I. **, Dairaku, K. **, Ishizaki, N. and Ham, S. **))

_____ (2018): Projections of Urban Climate in the 2050s in a Fast-Growing City in Southeast Asia: the Greater Ho Chi Minh City Metropolitan Area, Vietnam. *International Journal of Climatology*, **38**(11), 4155-4171, DOI:10.1002/joc.5559 (with Doan, V. Q.  ))

_____ (2018): Study on the urban heat island in Sofia City: Numerical simulations with potential natural vegetation and present land use data. *Sustainable*

Cities and Society, **40**, 110-125, DOI: 10.1016/j.scs.2018.03.012 (with Vitanova, L. L. ****))

_____ (2018): Green Space and Deaths Attributable to the Urban Heat Island Effect in Ho Chi Minh City. *A Publication of the American Public Health Association*, **108**(52), S137-S143, DOI:10.2105/AJPH.2017.304123 (with Tran, N. D. **, Doan, V. Q., Seposo, X. T. ** and Honda, Y. *))

_____ (2018): Characteristics of third typhoon category “high-temperature typhoons” - Comparisons with rain and wind typhoons -. *Bulletin of geo-environmental science*, **20**, 185-191, (J, with Suzuki-Parker A.   and Watarai, Y. **))

_____ (2019): Impacts of urban expansion on fog types in Shanghai, China: numerical experiments by WRF model. *Atmospheric Research*, **220**, 57-74, DOI: 10.1016/j.atmosres.2018.12.026 (with Gu, Y. **, Doan, V. Q. and Tan, J. **))

_____ (2019): Numerical approach for studying offshore wind power potential along the southern coast of Vietnam. *Lecture Notes in Civil Engineering*, **18**, 245-249, DOI: 10.1007/978-981-13-2306-5_33 (with Doan, V. Q.  , Du, T. V. **, Nguyen, D. D. ** and Cong, T. **))

_____ (2019): Application of mesoscale ensemble forecast method for prediction of wind speed ramps. *Wind Energy*, **22**(4), 499-508, DOI: 10.1002/we.2302 (with Doan, V. Q.  , Matsueda, M. and Ikeda, R.))

_____ (2019): Simulating micro-scale thermal interactions in different building environments for mitigating urban heat islands. *Science of the Total Environment*, **663**, 610-631, DOI: 10.1016/j.scitotenv.2019.01.299 (with Doan, V. Q.  , Matsueda, M. and Ikeda, R.))

_____ (2019): Effect of Foehn Wind on Record-Breaking High Temperature Event (41.1 degrees C) at Kumagaya on 23 July 2018. *SOLA*, **15**, 17-21, DOI: 10.2151/sola.2019-004 (with Nishi, A.  ))

_____ (2019): Comparison of Spatial Pattern and Mechanism between Convexity and Gap Winds. *SOLA*, **15**, 12-16, DOI: 10.2151/sola.2019-003 (with Nishi, A.  ))

_____ (2019): Numerical Study of the Urban Heat Island in Sendai City with Potential Natural Vegetation and the 1850s and 2000s Land-Use Data. *Journal of the Meteorological Society of Japan*, **97**(1), 227-252, DOI: 10.2151/jmsj.2019-013 (with Vitanova, L. L. ****, Doan, V. Q. and Nishi, A.))

_____ (2019): Development of a multilayer urban canopy model combined with a ray tracing algorithm. *SOLA*, **15**, 37-40, DOI: 10.2151/sola.2019-008 (with

- Doan, V. Q.^o)
- _____ (2019): Interaction of urban heat islands and heat waves under current and future climate conditions and their mitigation using green and cool roofs in New York City and Phoenix, Arizona. *Environmental Research Letters*, **14**, DOI: 10.1088/1748-9326/aaf431 (with Tewari, M.^{***}, Yang, J.^{**}, Salamanca, F.^{**}, Watson, C.^{**} and Treinish, L.^{**})
- _____ (2019): Roles of past, present, and future land use and anthropogenic heat release changes on urban heat island effects in Hanoi, Vietnam: Numerical experiments with a regional climate model. *Sustainable Cities and Society*, **47**, DOI: 10.1016/j.scs.2019.101479 (with Doan, V. Q.^o and Nguyen, T. M.^{**})
- Morimoto, T. (2018) Relation between urban volume and land surface temperature: a comparative study of planned and traditional cities in Japan. *Sustainability*, **10**(7), 2366; doi:10.3390/su10072366 (with Ranagalage, M.^{****}, Estoque, R. C.^{**}, Handayani, H. H.^{***}, Zhang, X.^{**}, Tadono, T.^{**} and Murayama, Y.)
- _____ (2018) Quantifying surface urban heat island formation in the world heritage tropical mountain city of Sri Lanka. *ISPRS International Journal of Geo-Information*, **7**(9), 341. doi: 10.3390/ijgi7090341 (with Ranagalage, M.^{****}, Dissanayake, DMSLB.^{***}, Zhang, X.^{***}, Estoque, R. C.^{**}, Perera, ENC.^{**} and Murayama, Y.)
- _____ (2018) Accessing the soil erosion rate based on RUSLE model for sustainable land use management: a case study of the Kotmale watershed, Sri Lanka. *Modeling Earth Systems and Environment*, **5**(1), 291-306. doi:10.1007/s40808-018-0534-x (with Dissanayake, DMSLB.^{****} and Ranagalage, M.^{****})
- _____ (2018) Impact of urban surface characteristics and socio-economic variables on the spatial variation of land surface temperature in Lagos City, Nigeria. *Sustainability*, **11**(1), 25-47. doi:10.3390/su11010025 (with Dissanayake, DMSLB.^{****}, Murayama, Y., Ranagalage, M.^{****}, and Handayani, H. H.^{***})
- _____ (2018) Academic review : rural area. *Jimbun-chiri*, **70**, 382-385. (J)
- _____ (2019) Spatial analysis of social vulnerability to floods based on the move framework and information entropy method: case study of Katsushika ward, Tokyo. *Sustainability*, **11**(2), 529-547. doi: 10.3390/su11020529 (with Lian, X.^{****})
- _____ (2019) Impact of landscape structure on the variation of land surface temperature in Sub-Saharan region: A case study of Addis Ababa using Landsat data (1986–2016). *Sustainability*, **11**(8), 2257-2274. doi: 10.3390/su11082257 (with Dissanayake, DMSLB.^{****}, Murayama, Y. and Ranagalage, M.^{****})
- Murayama, Y., supervised (2019) Map Exploration by Comparing the Past and Present. Kawadeshobo-shinsha, Tokyo, 48p. (J)
- _____ (2019) Spatial analysis of surface urban heat islands in four rapidly growing African cities. *Remote Sensing*, **11**(14), 1645. (with Simwanda, M.^{***}, Ranagalage, M.^{***}, and Estoque, R. C.^{**})
- _____ (2019) Impact of landscape structure on the variation of land surface temperature in Sub-Saharan region: A case study of Addis Ababa using Landsat data (1986–2016). *Sustainability*, **11**(8), 2257-2274. (with Dissanayake, DMSLB.^{****}, Morimoto, T. and Ranagalage, M.^{****})
- _____ (2019) Scenario-based modelling for urban sustainability focusing on changes in cropland under rapid urbanization: A case study of Hangzhou from 1990 to 2035. *Science of The Total Environment*, **661**(15), 422-431. (with Hou, H.^{**} and Wang, R.^{***})
- _____ (2019) Impact of urban surface characteristics and socio-economic variables on the spatial variation of land surface temperature in Lagos City, Nigeria. *Sustainability*, **11**(1), 25-47. (with Dissanayake, DMSLB.^{****}, Morimoto, T., Ranagalage, M.^{****} and Handayani, H. H.^{***})
- _____ (2019) Bibliometric analysis of highly cited articles on ecosystem services. *PLOS ONE*, **14**(2), e0210707. (with Zhang, X.^{****}, Estoque, R. C.^{**}, Xie, H.^{**} and Ranagalage, M.^{****})
- _____ (2018) Onshore wind farm suitability analysis using GIS-based analytic hierarchy process: A case study of Fukushima Prefecture, Japan. *Geoinformatics and Geostatistics: An Overview*, **S3**(5), 1-16. (with Dourdour, A.^{****})
- _____ (2018) Landsat evaluation of land cover composition and its impacts on urban thermal environment: A case study on the fast-growing Shanghai Metropolitan Area from 2000 to 2015. *Geoinformatics and Geostatistics: An Overview*, **S3**(6), 1-16. (with Liu, F.^{****})
- _____ (2018) Changes in the landscape pattern of the La Mesa Watershed: The last ecological frontier of Metro Manila, Philippines. *Forest Ecology and Management*, **430**, 280-290. (with Estoque, R. C.^{***}, Lasco, R. D.^{**}, Myint, S. W.^{**}, Pulhin, F. B.^{**}, Wang, C.^{**}, Ooba, M.^{**} and Hijioka, Y.^{**})
- _____ (2018) Geospatial analysis of horizontal and vertical urban expansion using multi-spatial resolution data: A case study of Surabaya, Indonesia. *Remote Sensing*, **10**(10), 1599. (with Handayani, H.

H.^{***}, Ranagalage, M.^{***}, Liu, F.^{***} and Dissanayake, DMSLB.^{***})

_____ (2018) Quantifying surface urban heat island formation in the world heritage tropical mountain city of Sri Lanka. *ISPRS International Journal of Geo-Information*, **7**(9), 341. (with Ranagalage, M.^{***}, Dissanayake, DMSLB.^{***}, Zhang, X.^{***}, Estoque, R. C.^{**}, Perera, ENC.^{**} and Morimoto, T.)

_____ (2018) Spatiotemporal analysis of land use/land cover and its effects on surface urban heat island using Landsat data: A case study of Metropolitan City Tehran (1988–2018). *Sustainability*, **10** (12), 4433. (with Roustai, I.^{***}, Sarif, M.^{**}, Gupta, R.^{**}, Olafsson, H.^{**}, Ranagalage, M.^{**}, Zhang, H.^{**} and Mushore, T.^{**})

_____ (2018) Scenario-based simulation of Tianjin City using a cellular automata Markov model. *Sustainability*, **10**(8), 2633. (with Wang, R.^{****} and Hou, H.^{***})

_____ supervised (2018) Digital Ino Map, WEB Version. TRC-ADEAC, Tokyo. (*J*)

_____ (2018) Measurement of urban built-up volume using remote sensing data and geospatial techniques. *Tsukuba Geoenvironmental Sciences*, **14**, 19-29. (with Ranagalage, M.^{****})

_____ (2018) Spontaneous simulation of land surface temperature in Tianjin city, China. *Tsukuba Geoenvironmental Sciences*, **14**, 37-44. (with Wang, R.^{****})

_____ (2018) Good access to education and hobby by digitalizing the old maps. In Kawadeshobo-shinsha, ed., Ino Map Exploration. Kawadeshobo-shinsha, Tokyo, 76-79. (*J*)

[d] Hydrologic Sciences

Asanuma, J. (2018): Global-scale evaluation of SMAP, SMOS and ASCAT soil moisture products using triple collocation. *Remote Sensing of Environment*, **214**, 1-13. (with Chen, F.^{***}, Crow, W. T.^{**}, Bindlish, R.^{**}, Colliander, A.^{**}, Burgin, M. S.^{**} and Aida, K.^{*})

_____ (2018): An assessment of the differences between spatial resolution and grid size for the SMAP enhanced soil moisture product over homogeneous sites. *Remote Sensing of Environment*, **207**, 65-70. (with Colliander, A.^{**}, Jackson, T.^{**}, Chan, S.^{**}, O'Neill, P.^{**}, Bindlish, R.^{**}, Cosh, M.^{**}, Caldwell, T.^{**}, Walker, J.^{**}, Berg, A.^{**}, McNairn, H.^{**}, Thibeault, M.^{**}, Martínez-Fernández, J.^{**}, Jensen, K.^{**}, Seyfried, M.^{**}, Bosch, D.^{**}, Starks, P.^{**}, Collins, C. H.^{**}, Prueger, J.^{**}, Su, Z.^{**}, Lopez-Baeza, E.^{**} and Yueh, S.^{**})

_____ (2018): Estimating surface soil moisture from SMAP observations using a Neural Network technique. *Remote Sensing of Environment*, **204**,

43-59. (with Kolassa, J.^{***}, Reichle, R.^{**}, Liu, Q.^{**}, Alemohammad, S.^{**}, Gentine, P.^{**}, Aida, K.^{*}, Bircher, S.^{**}, Caldwell, T.^{**}, Colliander, A.^{**}, Cosh, M.^{**}, Collins, C. H.^{**}, Jackson, T.^{**}, Martínez-Fernández, J.^{**}, McNairn, H.^{**}, Pacheco, A.^{**}, Thibeault, M.^{**} and Walker, J.^{**})

_____ (2018): Thermal Inertia Approach Using a Heat Budget Model to Estimate the Spatial Distribution of Surface Soil Moisture over a Semiarid Grassland in Central Mongolia. *Journal of Hydrometeorology*, **19**(1), 245-265. (with Matsushima, D.^{***} and Kaihitsu, I.^{**})

Tsujimura, M. (2018): Corroborating stable isotopic data with pumping test data to investigate recharge and groundwater flow processes in a fractured rock aquifer, Rivirivi Catchment, Malawi. *Environmental Earth Sciences*, **77**(6), DOI: <https://doi.org/10.1007/s12665-018-7403-9>. (with Kambuku, D.^{***}, Kagawa, S.^{**} and Mdala, H.^{**})

_____ (2018): Tracking the direct impact of rainfall on groundwater at Mt. Fuji by multiple analyses including microbial DNA. *Biogeosciences*, **15**, 721-732. (with Sugiyama, A.^{***}, Masuda, S.^{**}, Nagaosa, K.^{**} and Kato, K.^{**})

_____ (2018): Groundwater recharge and flow processes as revealed by stable isotopes and geochemistry in fractured Hornblende-biotite-gneiss, Rivirivi Catchment, Malawi. *African Journal of Environmental Science and Technology*, **12**(1), 1-14. (with Kambuku, D.^{***} and Kagawa, S.^{**})

Yamanaka, T. (2019): Problems Raised by Water Shortage. In Matsuoka, N. et al. eds., *Geoenvironmental Sciences, Revised Edition*. Kokonshoin, Tokyo, 96-99. (*J*)

_____ (2019): Serious Disasters and Their Prediction. In Matsuoka, N. et al. eds., *Geoenvironmental Sciences, Revised Edition*. Kokonshoin, Tokyo, 91-95. (*J*, with Ueno, K.^{*}, Asanuma, J.^{*} and Onda, Y.^{*})

_____ (2019): Geoenvironmental System Changes during Global Warming. In Matsuoka, N. et al. eds., *Geoenvironmental Sciences, Revised Edition*. Kokonshoin, Tokyo, 88-91. (*J*, with Kamae, Y.^{**} and Ikeda A.^{*})

_____ (2019): Human Activities Alter the Water Environment: Water Quality Formation and Contamination. In Matsuoka, N. et al. eds., *Geoenvironmental Sciences, Revised Edition*. Kokonshoin, Tokyo, 40-43. (*J*, with Tase, N.^{*})

_____ (2018): Root functional change achieves water source separation under vegetation succession. *Ecology*, DOI: 10.1002/eco.1985.

- _____ (2018): Contaminant transport and fate in freshwater systems ? Integrating the fields of geochemistry, geomorphology and nanotechnology. *Groundwater for Sustainable Development*, **7**, 336-342. (with Kumar, M.^{***}, Jain, V.^{**}, Li, Y.^{**} and Bhat-tacharya, P.^{**})
- [e] Atmospheric Science**
- Tanaka, H. L. (2018): On the natural component of climate change. *Tsukuba Geoenvironmental Sciences*, **14**, 1-7. (with Akasofu, S. I.^{***})
- _____ (2018): Predictability of the 2012 great Arctic Cyclone on medium-range timescales. *Polar Science*, **15**, 13-23, doi:10.1016/j.polar.2018.01.002. (with Yamagami, A.^{****} and Matsueda, M.^{*})
- _____ (2018): Medium-range forecast skill for extraordinary Arctic Cyclones in summer of 2008-2016. *Geophys. Res. Lett.*, **45**, doi:10.1029/2018GL077278. (with Yamagami, A.^{****} and Matsueda, M.^{*})
- _____ (2019): Numerical simulations of volcanic ash plume dispersal for Sakura-jima using real-time emission rate estimation. *Journal of Disaster Research*, **14**, 160-172. (with Iguchi, M.^{**})
- _____ (2019): Integrated monitoring of volcanic ash and forecasting at Sakurajima volcano, Japan. *Journal of Disaster Research*, **14**, No. 5. (with Iguchi, M.^{***})
- Ueda, H. (2018): Seasonal modulation of tropical cyclone occurrence associated with coherent Indo-Pacific variability during decaying phase of El Niño. *J. Meteorol. Soc Japan*. **96**, 381-390. (with Miwa, K.^{***} and Youichi, K.^{*})
- _____ (2018): Seasonal modulation of typhoon occurrence during 2015 and 2016 – relationship with El Niño and basin-wide warming in the Indian Ocean, *Tenki*, **65**, 749-753. (J, with Miwa, K.^{***} and Youichi, K.^{*})
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