List of Publications for the Academic Year 2025

[a] Human Geography

Matsui, K. (2025): Methods and Issues of Religious Studies in Geography. *Journal of Religious Studies*, **99**(2), 249-273. (***J***) https://doi.org/10.20716/rsjars.99.2_249

Usui, H. and Matsui, K. (2025): Do Suburbs Have Higher Fertility than Central Cities? Diversity of Regional Differences in Population Reproduction within Metropolitan Areas in Japan. *Sustainability*, **17**(23), 1081. https://doi.org/10.3390/su172310814

Usui, H., Seki, K., Tanaka, H., Yamaguchi, T., Wada, M. and Kubo, T. (2026): Settlement Processes of Residential and Employment among R&D Engineers and Clerical Workers in a Suburban Industrial District of the Tokyo Metropolitan Area: A Case Study of the Shinminato District, Chiba City. *Annals of Human and Regional Geography*, **48**, 1-14. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/1.pdf

Wang, Y., Cha, J., Zhang, H., He, P., Jin, G., Chu, Q., Onuma, Y. and Kubo, T. (2026): Comparative Study of Ethnic Networks and Settlement Mechanisms—Case Study of Chinese and Korean Residents in Chiba City, Japan—. *Annals of Human and Regional Geography*, **48**, 15-29. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/2.pdf

Liu, Y., Takamisawa, M., Yuan, W., Han, Y., Liu, D., Lou, C. and Kubo, T. (2026): Sequential Landscape and Residents' Impression Evaluation along Pedestrian Routes in Makuhari Baytown. *Annals of Human and Regional Geography*, **48**, 31-44. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/3.pdf

Kumamoto, S., Ueyama, R., Saito, M., Narita, Y., Nakamukai, R. and Kubo, T. (2026): Regional Characteristics of Preferences and Constraints in Urban Park Use: A Case Study of Chuo Ward, Chiba City. *Annals of Human and Regional Geography*, **48**, 45-59. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/4.pdf

Shibaoka, A., Ishihara, K., Yoshida, H. and Kubo, T. (2026): Development and Change of Small-Scale Care Hubs in Local Communities: Focusing on “Work Homes” in Chiba City. *Annals of Human and Regional Geography*, **48**, 61-74. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/5.pdf

Ichikawa, S., Igarashi, T., Sakamoto, D., Matsuura, R., Kwak, S., Kubo, T. and Matsui, K. (2026): The Role of Community Centers for Disaster Prevention during Typhoon and Their Regional Differences—A Case Study of Chiba City during Typhoon No.19 Hagibis in 2019—. *Annals of Human and Regional Geography*, **48**, 75-90. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/6.pdf

Kamidoi, H., Shimura, R., Tamaki, R., Gong, Z., Liu, Z., Wen, S., Zhu, Z. and Matsui, K. (2026): The Process of Popularizing and Expanding Tourism Agriculture in Metropolitan Suburbs—A Case Study of Strawberry Tourist Farms in Chiba City—. *Annals of Human and Regional Geography*, **48**, 91-116. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/7.pdf

Yamauchi, M., Kobayashi, W., Ding, Z. and Matsui, K. (2026): Utilization and Educational Role of the Kasori Shell Mound—Focusing on Volunteer Activities and Field Trips—. *Annals of Human and Regional Geography*, **48**, 117-137. (***J***) https://www.geoenv.tsukuba.ac.jp/~chicho/nenpo/48/8.pdf

[b] Regional Geography

Tsutsumi, J. (2025): Southeast Asia and Oceania: Moving towards economic integration. *The New Geography*, 73, pp.57-61. (***J***)

Yamashita, A., Taniguchi, T., Watarai, Y., Sakamoto, Y. and Nakamura, M. (2025): Comprehensive evaluation of urban waterside space along the Genbe River in Mishima City, Shizuoka Prefecture. *E-journal GEO*, **20**, 114-133. (***JE***) https://doi.org/10.4157/ejgeo.20.114

[c] Spatial Information Science

Abe, T., Sato, T., Boku, T., Fujita, N. and Kusaka, H. (2025) Performance comparison of an urban meteorological simulation code incorporating dry mist effects on NVIDIA GH200 and Xeon + H100 Systems. *Information Processing Society of Japan* (IPSJ), **199**, 1-11.

Aota, Y. and Kusaka, H. (2026): Urban impacts on convective precipitation in the Osaka Metropolitan Area: Numerical simulations over 320 potential precipitation days. *Journal of Applied Meteorology and Climatology*, **65**(2), 323-340. https://doi.org/10.1175/JAMC-D-25-0043.1

Asano, Y. and Kusaka, H. (2025): Effects of mountain width on downslope windstorm occurrence. *Journal of the Atmospheric Sciences*, **82**(9), 1973-1988. https://doi.org/10.1175/JAS-D-24-0106.1

Hasebe, H., Kusaka, H., Suzuki, N. and Ngo-Duc, T. (2026): Urban impacts on precipitation in the Greater Ho Chi Minh City Metropolitan Area, Vietnam. *Journal of Geophysical Research: Atmospheres*, **131**, e2025JD045001. http://dx.doi.org/10.1029/2025JD045001

Kudoh, T. Y. and Kusaka, H. (2026): Climatological study on valuable local winds, "Obonai-dashi," in Japan. *Journal of the Meteorological Society of Japan*, **104**, 15. https://doi.org/10.1007/s44394-026-00017-4

Kusaka, H., Kodama, T., Ito, R., Maeda, T., Takada, N., Ishikawa, R., Konnai, K., Asano, R., Maebata, M. and Murata, K. T. (2025): Characteristics of unique cap, Tsurushi and Hata clouds around Mount Fuji. *Weather*. https://doi.org/10.1002/wea.7774

Kusaka, H., Onodera, T. and Asano, Y. (2025): Temporal and spatial dynamics of a local wind in Japan, "Kiyokawa-dashi": Insights from high-density observations and numerical simulations. *Quarterly Journal of the Royal Meteorological Society*, **151**(771), e5007. https://doi.org/10.1002/qj.5007

Sathsara, K. T. L., Suzuki N. and Kusaka, H. (2025): WRF-UCM simulations of urbanization impacts on land-sea breeze circulations during three heatwaves in Colombo, Sri Lanka. *Theoretical and Applied Climatology*, **156**, 537. https://doi.org/10.1007/s00704-025-05808-1

Shizui, R., Uchida, T. and Kusaka, H. (2025): Comparison of atmospheric stability at wind observation tower height and hub/rotor height using 200 m meteorological observation tower data. *Wind Energy*, **29**(1), e70076. https://doi.org/10.1002/we.70076

Vitanova, L. L., Kusaka, H., Doan, Q. V., Chen, F., Petrova-Antonova, D. and Subasinghe, S. (2025): Evaluating the seasonal impact of urbanisation on surface air temperature in Beijing over three decades: 1990s, 2010s, and 2030s. *Environmental Research Communications*, **7**, 045021. https://doi.org/10.1088/2515-7620/adc90

Yamane, T., Inatsu, M., Kawano, J., Sato, T. and Kusaka, H. (2026): Short-distance dispersion of birch pollen. *Agricultural and Forest Meteorology*, **379**, 111052.

https://doi.org/10.1016/j.agrformet.2026.111052
Mailisu, Jiang, D. and Matsushita, B. (2025): Combining two water type classification schemes for semi-analytical estimation of suspended particulate matter concentrations in various water bodies. *International Journal of Applied Earth Observation and Geoinformation*, **144**, 104909. https://doi.org/10.1016/j.jag.2025.104909
Malisu and Matsushita, B. (2025): Remotely estimating suspended particulate matter concentration in various water bodies. *The 89th Annual Meeting of the Japanese Society of Limnology*, September 25-28, Sapporo, Hokkaido, Japan.
Matsushita, B. and Jiang, D. (2025): Mapping concentrations of suspended particulate matter in inland waters from Sentinel-2 MSI data using semi-analytical algorithms. *AOGS 22nd Annual Meeting*, Singapore.
Zhang, H. and Matsushita, B. (2025): Combining satellite image standardization and self-supervised learning to improve building segmentation accuracy. *Remote Sensing*, **17**, 3182. https://doi.org/10.3390/rs17183182
Zhang, H. and Matsushita, B. (2025): Improving building segmentation accuracy by multitask self-supervised learning. *Proceedings of the Autumn Conference of Japan Society of Photogrammetry and Remote Sensing*, November 20-21, Yamagata, Japan.
Athukorala, D., Murayama, Y., Karunaratne, S., Wijenayake, R., Morimoto, T., Fernando, S. L. J. and Herath, N. S. K. (2025): Spatio-Temporal Changes in Mangroves in Sri Lanka: Landsat Analysis from 1987 to 2022. *Land*, **14**(9), 1820. https://doi.org/10.3390/land14091820
Pan, Y., Morimoto, T. and Ichinose, T. (2025): Application of Xee in Time-Series Remote Sensing Analysis: A Case Study of Flood Monitoring in Poyang Lake, Jiangxi Province, China. *Proceedings of the General Meeting of the Association of Japanese Geographers*, 2025a, 160. (***J***) https://doi.org/10.14866/ajg.2025a.0_160
Zhao, W. and Morimoto, T. (2025): What Drives Farmland Abandonment in the Era of Population Decline in Japan: Labor Outmigration or Agricultural Structural Fragility? --An Empirical Study of Kanto Region, Using Two-Stage Least Squares (2SLS). *Proceedings of the General Meeting of the Association of Japanese Geographers*, 2025a, 62. (***J***) https://doi.org/10.14866/ajg.2025a.0_62
Pan, Y., Morimoto, T. and Ichinose, T. (2026): A comparative analysis of urban water body extraction using Sentinel-1 and Sentinel-2. *Proceedings of the General Meeting of the Association of Japanese Geographers*, 2026s, 332. (***J***) https://doi.org/10.14866/ajg.2026s.0_332
Morimoto, T., Iwai, Y., Athukorala, D. and Murayama, Y. (2026): Detection of abandoned rice paddies in the Colombo suburbs, Sri Lanka. *Proceedings of the General Meeting of the Association of Japanese Geographers*, 2026s, 294. (***J***) https://doi.org/10.14866/ajg.2026s.0_294
Jayarathne, M., Morimoto, T. and Ranagalage, M. (2026): Bibliometric Analysis of Highly Cited Publications on Mangrove Sustainability. *Forests*, **17**(2), 240. https://doi.org/10.3390/f17020240
Wang, R., Murayama, Y., Liu, F., Zhang, X., Hou, H., Morimomto, T. and Derdouri, A. (2025): Impact of urban morphology on land surface temperature: A case study of the central Tokyo, Japan. *City and Environment Interactions*, **28**, 10027. https://doi.org/10.1016/j.cacint.2025.100227
Athauda, S. J. K. and Morimoto, T. (2025). Identification of Abandoned Tea Lands in Kandy District, Sri Lanka Using Trajectory Analysis and Satellite Remote Sensing.

ISPRS International Journal of Geo-Information, **14**(8), 312. https://doi.org/10.3390/ijgi14080312

Lianxiao, Morimoto, T., Jin, H., Tong, S. and Bao, Y. (2025): Assessment of Flood Risk of Residential Buildings by Using the AHP-CRITIC Method: A Case Study of the Katsushika Ward, Tokyo. *Buildings*, **15**(12), 2016. https://doi.org/10.3390/buildings15122016

Dissanayake, D. M. S. L. B., Morimoto, T., Ranagalage, M. and Murayama, Y. (2025): A seasonal assessment of urban thermal behavior and its links to land use patterns in Harare, Zimbabwe. *Scientific African*, **28**, e02677, https://doi.org/10.1016/j.sciaf.2025.e02677.

[d] Hydrologic Sciences

Adachi, I., Ono, C. and Yamanaka, T. (2026): Isotopic shift in streamflow relative to precipitation over 13 years: Fractionation versus selection effects. *Hydrological Research Letters*, **20**(1), 52-59. https://doi.org/10.3178/hrl.25-00044

Adachi, I., Umam, R., and Yamanaka, T. (2025): Boron isotope evolution during burial diagenesis : integrating a Rayleigh model with hot spring observations. *Hydrological Research Letters*, **19**(4), 289–296. https://doi.org/10.3178/hrl.25-00032

Adachi, I., and Yamanaka, T. (2025): Evaporative effects on day-to-day precipitation isotope variability in East Asia. *Progress in Earth and Planetary Science*, **12**(1). https://doi.org/10.1186/s40645-025-00744-0

Siregar, R.N., Sismanto, S., Triyana, K., Harijoko, A., Iqbal, M., Antarnusa, G., Putra, F.G. and Umam, R. (2026): Lithium enrichment in high radiogenic geothermal systems originating from lithospheric water due to water-rock interactions. *Geothermics*, **134**, 103499. https://doi.org/10.1016/j.geothermics.2025.103499

Suzuki, T., Tsujimura, M., Sato, K., Asakura, H., Ueno, H. and Nagano, K. (2025): Evaluation of groundwater–surface water interaction using endmember mixing analysis (EMMA) in the middle reaches of the Tama River, Tokyo, Japan. *Hydrogeological Journal*, **33**, 825-839. https://doi.org/10.1007/s10040-025-02895-2

Tanaka, R., Adachi, I. and Yamanaka, T. (2026): Short-term isotopic variability in spa waters containing lithospheric components across central Japan: A preliminary study. *Journal of Hydrology*, **664** PartC, 134584. https://doi.org/10.1016/j.jhydrol.2025.134584

Umam, R., Adachi, I., and Yamanaka, T. (2026): H-O-B-Li isotope systematics for assessing slab-derived fluids : Importance of postdehydration processes. *Applied Geochemistry*, **197**, 106667. https://doi.org/10.1016/j.apgeochem.2025.106667

Umam, R., Junaidi, R., Syazali, M., Farid, F., Saregar, A. and Andiyan, A. (2025): Optimization of Piper Trilinier Diagram Using Lithium Isotope Systematics : An Application for Detecting the Contribution of Geothermal Water from Aso Caldera after Earthquake 2016 in Kumamoto Aquifer , Japan. *Indonesian Journal of Science & Technology*, **10**(1), 159–170. https://doi.org/10.17509/ijost.v10i1.80974

Yamanaka, T. and Adachi, I. (2025): Author Correction: Hot springs reflect the flooding of slab-derived water as a trigger of earthquakes. *Communications Earth & Environment*, **6**, 1025. https://doi.org/10.1038/s43247-025-03107-1

[e] Atmospheric Science

Sakamoto, R., Doan, Q.-V., Inoue, T. and Ueda, H. (2025): Regional patterns of winter

temperature anomalies in Japan and their teleconnection drivers. *Geographical Review of Japan Series A*, **98**, 378-393. (***JE***)

Sakamoto, R., Takaya, Y., Hirahara, S., Naoe, H., Okajima, S. and Ueda, H. (2025): Midlatitude atmosphere-ocean interaction reinforces the East Asian winter monsoon. *Geophysical Reserach Letters*, **52**, e2025GL118566. https://doi.org/10.1029/2025GL118566

Takemura, K., Sato, H., Nakamigawa, H., Tanaka, S., Maeda, S., Takayabu, Y. N., Ueda, H., Kawamura, R., Kimoto, M., Tanimoto, Y., Naoe, H., Nonaka, M., Hirooka, T., Mukougawa, H., Watanabe, M., Imada, Y., Kawase, Y. and Nakamura, H. (2025): Large-scale factors for the persistent extreme heatwave over Japan in 2024 summer and late-July heavy rainfall in northern Japan. *Scientific Online Letters on the Atmosphere (SOLA)*, **21**, 329-339. https://doi.org/10.2151/sola.2025-040

Toyoda, T., Tsukagawa, K., Kimura, Y., Abe, H., Honda, M., Yamada, Y., Amano, M., Tachibana, Y., Sawa, Y., Morimoto, K., Ueda, H., Iwamoto, K., Itoh, K., Shido, F., Tada, H., Kaneko, H., Toyama, K., Kosugi, N., Ushijima, Y. and Ishii, M. (2025): Sea ice records over more than a century at an observatory facing the Okhotsk coast of Hokkaido, Japan. *Scientific Data*, **12**, 998. https://doi.org/10.1038/s41597-025-05277-1

Areed, W. D., Nguyen, T. T. T., Do, K. Q., Nguyen, T., Bui, V., Nelson, E., Warren, J. L., Doan, Q. V., Sinh, N. V., Osborne, N. J., Richards, R., Tran, N. Q. L., Le, H., Pham, T., Hung, T. M., Nghiem, S., Phung, H., Chu, C., Dubrow, R., Weinberger, D. M. and Phung, D. (2025): A district-level ensemble model to enhance dengue prediction and control for the Mekong Delta region of Vietnam. *PLoS Neglected Tropical Diseases*, **19**, e0013571. https://doi.org/10.1371/journal.pntd.0013571

Anh Tuan, T., Thi Tam, T., Viet Hong, P., Thi Anh Nguyet, N. and Doan, Q. V. (2025): Landslide susceptibility mapping in tropical cyclone-affected areas of Central Vietnam using bivariate statistical models. *IOP Conference Series: Earth and Environmental Science*, **1501**, 012008. https://doi.org/10.1088/1755-1315/1501/1/012008

Cong, T., Ha, T. H. G., Vu, G. L., Bui, H. N., Dao, N. Q. H., Le, M. H., Dinh, C. M., Cong, M. P. and Doan, Q. V. (2025): Advancing subseasonal extreme rainfall forecasting in Vietnam using machine learning. *Scientific Online Letters on the Atmosphere (SOLA)*, **21**, 273-282. https://doi.org/10.2151/sola.2025-034

Khorat, S., Khatun, R., Das, D., Siddiqui, A., Khan, A., Mondal, N., Aziz, S. M., Anand, P., Doan, Q. V., Niyogi, D. and Santamouris, M. (2025): Quantifying outdoor heat stress potential due to city-wide installation of rooftop photovoltaic solar panels. *Energy and Buildings*, **344**, 115996. https://doi.org/10.1016/j.enbuild.2025.115996

Modi, A., Roxy, M. K., Jain, S., Truong, C. H., Doan, Q. V., Jack, C., Jevrejeva, S., Singh, A., Dhara, C. and Ghosh, S. (2025): Bridging climate science, policy, and communities: collaborative pathways for climate resilience in the Indo-Pacific. *Frontiers in Climate*, **7**. https://doi.org/10.3389/fclim.2025.1538123

Vitanova, L. L., Yamamura, S., Kusaka, H. and Doan, Q. V. (2025). A new railway-driven urban expansion: A numerical study of thermal conditions in neighborhood environments. *In* K. Ujikawa et al. eds. *Environment and Sustainable Development. ACESD 2024*. Springer, Singapore. https://doi.org/10.1007/978-981-96-6657-7_16

Vitanova, L. L., Kusaka, H., Doan, Q. V., Chen, F., Petrova-Antonova, D. and Subasinghe, S. (2025): Evaluating the seasonal impact of urbanisation on surface air temperature in Beijing over three decades: 1990s, 2010s, and 2030s. *Environmental Research*

Communications, **7**, 045021. https://doi.org/10.1088/2515-7620/adc908

Amano, K., Watanabe, J., Kamae, Y., Shibasaki, N., Tanaka, H., Ogawa, N., Obata, Y., Tanakadate, H., Naoi, M., Murayama, K. and Moriyama, Y., (2026): *Basic Earth Science, Revised Edition*. Jikkyo Shuppan Co., Ltd. ISBM: 978-4-407-20703-3. (***J***) https://www.jikkyo.co.jp/book/detail/26068226/

Kawamura, T., Kosaka, Y., Okajima, S. and Nakamura, H. (2025). Projected changes of the Northern Annular Mode linked to seasonality of the ENSO teleconnection. *Geophysical Research Letters*, **52**, e2025GL118175. https://doi.org/10.1029/2025GL118175

Koike, M., Kawai, Y., Adachi, K., Aiki, H., Kanaya, Y., Kawai, H., Kita, K., Kondo, F., Koshiro, T., Matsui, H., Miyakawa, T., Miyamoto, A., Miyasaka, T., Miyazaki, Y., Mochida, M., Mori, T., Moteki, N., Murayama, T., Nakamura, H., Ohata, S., Oka, E., Okajima, S., Tobo, Y. Sekizawa, S. and Yoshida, A. (2025): Integrated aircraft and research vessel observational studies of aerosols and clouds in summer over the western North Pacific. *Progress in Earth and Planetary Science*, **12**, 50. https://doi.org/10.1186/s40645-025-00719-1

Nakayama, M., Yamazaki, A., Okajima, S. and Ogawa, F. (2026): Report on storm track workshop 2025. *Tenki*, **73**(2), 27-30. (***J***)

Okajima, S., Kosaka, Y., Miyasaka, T. and Ito, R. (2025): Unprecedented Marine Heatwave Significantly Exacerbated the Record-breaking 2023 East Asian Summer Heatwave. *AGU Advances*, **6**(5), e2025AV001673. https://doi.org/10.1029/2025AV001673

Okajima. S., Nakamura, H., Kuwano-Yoshida, A. and Parfitt, R. (2025): Mechanisms for an Early Spring Peak of Extratropical Cyclone Activity in East Asia. *Journal of Climate*, **38**(9), 1981-1997. https://doi.org/10.1175/JCLI-D-24-0203.1

[f] Geomorphology

Harada, S., Hattanji, T., Ogura, T. and Hayakawa, Y. S. (2026): An abandoned road as a debris trap: Estimating debris-supply rate from steep slopes based on UAV–LiDAR DEMs. *Geomorphology*, **393**, 107943. https://doi.org/10.1016/j.geomorph.2026.110193

Kellerer-Pirklbauer, A., Bodin, X., Delaloye, R., Lambiel, C., Gärtner-Roer, I., Damm, B., Ikeda, A., Kaufmann, V., Krainer, K., Seppi, R., Scapozza, C., Stocker-Waldhuber, M. and Thibert, E. (2026): Rock glacier velocity monitored by annual in-situ geodetic surveys: Long-term challenges, solutions and suggestions. *Geomorphology*, **495**, 110117. https://doi.org/10.1016/j.geomorph.2025.110117

Ogura, T., Yamauchi, H., Aoki, T., Matta, N., Iizuka, K., Iwasa, Y., Takahashi, T., Hayashi, K., Hattanji, T. and Oguchi, T. (2025): High-definition topographic archiving and educational applications in regions affected by the 2024 Noto Peninsula Earthquake. *Journal of Disaster Research*, **20**, 401-409. https://doi.org/10.20965/jdr.2025.p0401

Ogura, T., Shimamoto, K., Mizuno, T., Katayama, D., Yamauchi, H. and Hattanji, T. (2025): Identification of traditional flood control facilities concealed in the riparian forest: a case study of the Echi River, central Japan. *Progress in Earth and Planetary Science*, **12**, 41. https://doi.org/10.1186/s40645-025-00715-5

Terui, R., Hattanji, T., Kajita, T., Ogura, T. and Inomata, M. (2026): Evaluation of medieval land transformation for the construction of hilltop castles based on topographic analysis of LiDAR DEMs. *Physical Geography*. (published online) https://doi.org/10.1080/02723646.2026.2643590

[g] Environmental Dynamics

Anderson, D., Fujishima, Y., Hinton, T. G., Johansen, M. P., Wainwright, H., Steinhauser, G., Gusyev, M. A., Orr, B., Masuda, T., Bryant, P. A., Donaher, S., Onda, Y., Tsumune, D., Sakaguchi, A., Harshman, A., Johnson, T., Beasley, J. C., Aono, T., Yamasaki, S., Oughton, D., Lind, O. C., Hondros, J., Fisher, N. S., Stephenson, W., Jeffries, C., Tazoe, H., Akata, N., Hosoda, M., Miura, T. and Tokonami, S. (2025): Correspondence on "Fukushima Contaminated Water Risk Factor: Global Implications". *Environmental Science & Technology*, **59**(46), 25113-25115. https://doi.org/10.1021/acs.est.5c07456

Bagramova, A., Sakaguchi, A., Sakata, K., Takahashi, J., Kajimoto, T., Endo, S., Toekin, M., Zhumalina, A., Ibraeva, D., Stepanenko, V., Hoshi, M. and Zhumadilov, K. (2026): Atmospheric ^{210}Pb activity concentrations in Stepnogorsk city, North Kazakhstan uranium province area. *Atmospheric Environment*, **372**(1), 121836. https://doi.org/10.1016/j.atmosenv.2026.121836

Chiu, C.-W., Hashimoto, A., Inokoshi, S., Gomi, T., Onda, Y. and Sun, X. (2025): Developing a Structural Framework to Estimate Forest Floor Evapotranspiration With the Relative Yield Index (Ry). *Ecohydrology*, **18**(7), e70125. https://doi.org/10.1002/eco.70125

Hashimoto, A., Inokoshi, S., Chiu, C., Onda, Y., Gomi, T. and Uchiyama, Y. (2025): Estimating characteristics of planted forests' relative yield index using low pulse density LiDAR and satellite remote sensing. *International Journal of Applied Earth Observation and Geoinformation*, **139**, 104558. https://doi.org/10.1016/j.jag.2025.104558

Hirano, A., Kagamifuchi, H., Koyabu, K., Takizawa, K. and Onda, Y. (2026): Operations of a pumped storage power plant attenuated radioactive Cs concentration in kokanee stocked in the upper reservoir. *Journal of Environmental Radioactivity*, **291**, 107827. https://doi.org/10.1016/j.jenvrad.2025.107827

Hisadome, K., Onda, Y., Kato, H., Mitsukura, R., Chayama, S. and Noguchi, H. (2025): Impact of airborne litterfall on radiocesium redistribution in areas adjacent to forests. *Journal of Environmental Radioactivity*, **290**, 107780. https://doi.org/10.1016/j.jenvrad.2025.107780

Holiaka, D., Igarashi, Y., Yoschenko, V., Zadorozhniuk, R., Levchuk, S., Holiaka, M., Kiva, O., Smith, J. T., Oughton, D. H., Morozova, V., Lesnik, O., Chyzhevskyi, I., Diachuk, P., Kato, H., Onda, Y. and Kashparov, V. (2026): Estimation of ^{90}Sr and ^{137}Cs activity concentrations in Chornobyl wood: significance of factors and classical vs. machine learning methods. *Journal of Environmental Radioactivity*, **291**, 107839. https://doi.org/10.1016/j.jenvrad.2025.107839

Igarashi, Y., Hayashi, S., Ito, S., Tamaoki, M., Niizato, T., Sasaki, Y., Ito, S., Nomura, N. and Arai, H. (2026): Wildfires Oppositely Modify Radiocesium Mobility in Forest Litter and Soils: Evidence from Radiologically Contaminated Areas in Fukushima. *Environmental Science & Technology*, **60**(7), 5688–5698. https://doi.org/10.1021/acs.est.5c10144

Kato, H., Niwano, Y., Akaiwa, S., Donovan, A., Takahashi, J., Onda, Y. and Niizato, T. (2025): Effect of shallow groundwater discharge on the formation of dissolved Cs-137 concentrations in surface water in a forest headwater catchment. *Journal of Environmental Management*, **390**, 126222. https://doi.org/10.1016/j.jenvman.2025.126222

Konoplev, A., Kanivets, V., Wakiyama, Y., Igarashi, Y., Protsak, V., Hinchuk, T. and Nanba, K. (2026): Seasonal variations within the long-term decline of Chernobyl-derived dissolved ^{137}Cs in Kyiv dam reservoir. *Journal of Environmental Chemical Engineering*, **14**(1), 120636. https://doi.org/10.1016/j.jece.2025.120636

Misumi, K., Tsubono, T., Tsumune, D., Yoshimura, T. and Ueda, S. (2025) Simulating CO_2 dynamics in Brackish Lake Obuchi, Japan: Low pCO_2 maintenance through diverse nutrient inputs. *Progress in Earth and Planetary Science*, **12**, 70. https://doi.org/10.1186/s40645-025-00751-1

Misumi, K., Koyama, T., Kato, T., Kanagawa, S., Tsumune, D. and Tsubono, T. (2025): Application of RESRAD-OFFSITE code for coastal nuclear facility decommissioning: marine exposure pathway analysis. *Journal of Environmental Radioactivity*, **289**. https://doi:10.1016/j.jenvrad.2025.107746

Sato, H., Onda, Y., Tsumune, D., Kohata, K. and Okamura, T. (2025): Leaked tritium reveals the source of ^{137}Cs from the Fukushima Daiichi Nuclear Power Plant to the ocean. *Water Research*, **288** (Part A), 124464. https://doi.org/10.1016/j.watres.2025.124464

Takahashi, J. (2025): Downward Migration of ^{137}Cs as a Self-Cleaning Mechanism in Forest Ecosystems. *Isotope News*, **798**, 18-21. (***J***)

Takahashi, Y., Miura, H., Yamada, S., Sekizawa, O., Nitta, K., Hashimoto, T., Yomogida, T., Yamaguchi, A., Okada, S., Itai, T., Suga, H., Kashiwabara, T., Sakata, K., Tanaka, M., Kurisu, M., Nagasawa, M., Kawai, T., Takemoto, A., Yoshida, S., Ohno, T., Tatsuno, H., Hayakawa, R., Suda, H., Ishisaki, Y., Okumura, T., Ichinohe, Y., Hayashi, T., Imai, Y., Noda, H., Tamagawa, T., Isobe, T., Azuma, T., Doriese, W. B., Ullom, J. N., Swetz, D. S., Durkin, M., O'Neil, G. C., Kohjiro, S., Higaki, S., Tsumune, D., Yamamoto, M., Uruga, T. and Kurihara, Y. (2025): Speciation of cesium in a radiocesium-bearing microparticle emitted from Unit 1 during the Fukushima nuclear accident by XANES spectroscopy using transition edge sensor. *Journal of Hazardous Materials*, **495**, 139031. https://doi.org/10.1016/j.jhazmat.2025.139031

Zhang, Y., Chiu, C.,Onda, Y. and Gomi, T. (2025): Should we average rain gauge values to estimate throughfall? A research of canopy structure and throughfall spatial variability using LiDAR technology. *Journal of Hydrology*, **661** (Part A), 133496. https://doi.org/10.1016/j.jhydrol.2025.133496

Zhang, Y., Wang, H., Onda, Y., Tan, Y. and Kato, H. (2025): LiDAR-derived canopy structure explains ^{137}Cs concentrations in throughfall in Fukushima plantation forest. *Environmental Pollution*, **374**, 126262. https://doi.org/10.1016/j.envpol.2025.126262

[Symbols]

J in Japanese

JE in Japanese with English abstract