

Publications (since 2020)

- Radosavljevic, S., Acotto, F., Wang, Q., Su, J., **Gasparatos, A.**, 2026. Pathways to sustainability or collapse in inland small-scale aquaculture systems: Insights from a social-ecological systems model. *Ecological Modelling*, **512**: 111416
- Gasparatos, A.**, Dompreeh, E.B., Wang, Q., Dam Lam, R., Barman, B.K., Su, J., Rossignoli, C., 2025. Dataset of production characteristics and performance of small-scale carp aquaculture systems in Bangladesh. *Frontiers in Sustainable Food Systems*, **9**: 1646381
- Huynh, L.T.M.**, Ishihara, H., Trinh, X.C.T., Fukushi, K., **Gasparatos, A.**, 2025. Linking cultural ecosystem services with individual and collective wellbeing in recreational urban blue spaces: insights from Danang, Vietnam. *Ecosystems and People*, **21**: 2588087
- Wang, Q.**, Dompreeh, E.B., Nacoulma, B.M.I., Iiyama, M., Dimobe, K., Emmambux, M.N., Mbaye, M.S., Thiombiano A., **Gasparatos, A.**, 2025. Characteristics and socioeconomic performance of neglected and underutilized plant species (NUS) production systems in Burkina Faso. *Environmental Research Letters*, **20**: 104027
- Rathnabarana, G., Dompreeh, E.B., **Gasparatos, A.**, 2025. Sustainability of protected agriculture in Sri Lanka: A multi-stakeholder perceptions analysis of the drivers, impacts, challenges and response options. *Sustainable Development*, **33**, 9000-9027
- Huynh, L.T.M., Su, J., **Gasparatos, A.**, 2025. Differentiated trajectories of ecosystem-based adaptation for urban coastal defence in the Asian-Pacific region A Biodiversity–Climate–Society nexus perspective. *Ocean and Coastal Management*, 270: 107799.
- Dompreeh, E., Wang, Q., Su, J., Dam Lam, R., Barman, B.K., Rossignoli, C., **Gasparatos, A.**, 2025. Differentiated characteristics, sustainability performance and preferences among small-scale aquaculture producers: implications for sustainable intensification. *Sustainability Science*, In Press: <https://doi.org/10.1007/s11625-025-01703-w>
- Bohn, F.J., Bastos, A., Martin, R., Rammig, A., Koh, N.S., Sioen, G.B., Buscher, B., Carver, L., DeClerck, F., Drupp, M., Fletcher, R., Forrest, M., **Gasparatos, A.**, Godoy-Faúndez, A., Hagedorn, G., Hänsel, M., Hetzer, J., Hickler, T., Krug, C.B., Koot, S., Li, X., Luers, A., Matevich, S., Matthews, H.D., Meier, I.C., Mohamed, A., Obura, D., Orlove, B., Orth, R., Pereira, L., Reichstein, M., Thakholi, L., Verburg, P., Yoshida, Y., 2025. Current perspectives on biosphere research 2024-2025: 8 findings from ecology, sociology and economics. *Biogeosciences*, **22**, 2425-2460
- Alfonsi, R., Naidoo, M., **Gasparatos, A.**, 2025. Stakeholder perspectives for Information and Communication Technologies (ICTs) for sustainable food systems in South Africa: Challenges, opportunities, and a proposed ICT framework. *Environment, Development, Sustainability*, **27**, 27281–27314

- Munialo, S., **Gasparatos, A.**, Ludidi, N., Ali, E.A., Keyster, E., Akanbi, M.O., Emmambux, N.M., 2024. Systematic review of the agro-ecological, nutritional, medicinal properties of the Neglected and Underutilized plant Species *Tylosema fassoglense*. *Sustainability*, **16**: 6046
- Aleksejeva, J., Voulgaris, **Gasparatos, A.**, 2024. Systematic review of the climatic and non-climatic benefits of green roofs. *Urban Climate*, **58**: 102133
- Alfonsi, R., Naidoo, M., **Gasparatos, A.**, 2024. Adoption and desirable characteristics of Information and Communication Technologies (ICTs) for urban small-scale food producers in South Africa. *Frontiers in Sustainable Food Systems*, **8**:1332978
- Wang, Q., Rossignoli, C., Dompereh, E.B., Su, J., Griffiths, D., Htoo, K.K., Nway, H.M., Akester, M., **Gasparatos, A.**, 2024. Diversification strategies have a stabilizing effect for income and food availability during livelihood shocks: evidence from small-scale aquaculture-agriculture systems in Myanmar during the COVID-19 pandemic. *Agricultural Systems*, **217**: 103935
- Huynh, L.T.M., Su, J., Wang, Q., Stringer, L., Switzer, A.D. **Gasparatos, A.** 2024. Meta-analysis of coastal defence options indicates better performance of hybrid engineering-ecosystem approaches for climate adaptation. *Nature Communications*, **15**: 2870
- Long, Y., Huang, L., Su, J., Yoshida, Y., Feng, K., **Gasparatos, A.**, 2024. Mixed diets can meet nutrient requirements with lower carbon footprints. *Science Advances*, **10**: eadh1077
- Long, Y., Yoshida, Y., Chen, P., Feng, K., Hubacek, K., Yi, W., **Gasparatos, A.**, 2024. Demographic transitions hinders climate change mitigation in the aging and shrinking Japanese residential sector. *Cell Reports Sustainability*, **1**: 100053
- Long, Y., Wu, Y., Huang, L., Aleksejeva, J., Iossifova, D., Dong, N., **Gasparatos, A.** 2024. Assessing urban livability in Shanghai through an open source data-driven approach. *npj Urban Sustainability*, **4**: 7
- Su, J, **Gasparatos, A.** 2024. Assessing the heterogeneity of public acceptability for mangrove restoration through a choice experiment. *Ecological Economics*, **218**: 108126
- Dompereh, E.B., Rossignoli, C., Griffiths, D., Wang, Q., Htoo, K.K., Nway, H.M., Akester, M., **Gasparatos, A.**, 2024. Impact of Better Management Practices adoption and nutrition-sensitive training on the productivity, livelihoods and household food security of small-scale aquaculture producers in Myanmar. *Food Security*, **16**, 757–780.
- Jarzebski, M.P., Su, J., Abrahamyan, A., Lee, J., Kawasaki, J., Chen, B., Andriatsitohaina, N.N., Ocen, I., Sioen, G.P., Lambino, R., Saito, O., Elmqvist, T., **Gasparatos, A.**, 2023. Developing biodiversity-based solutions for sustainable food systems through transdisciplinary Sustainable Development Goals Labs (SDG-Labs). *Frontiers in Sustainable Food Systems*, **7**: 1144506.

- Rossignoli, C.M., Manyise, T., Shikuku, K.M., Nasr-Allah, A.M., Dompreeh, E.B., Henriksson, P.J.G., Dam Lam, R., Lozano, D., Tran, N., Roem, A., Badr, A., Sbaay, A.S., Moruzzo, R., Tilley, A., Charo-Karisa, H., **Gasparatos, A.**, 2023. Tilapia aquaculture systems in Egypt: Characteristics, sustainability outcomes and entry points for sustainable aquatic food systems. *Aquaculture*, **577**: 739952
- Chakraborty, S., Yamamori, T., Su, J., Kumar, P., Johnson, B.A., Ashikaga, Y., **Gasparatos, A.**, 2023. Systematizing ecosystem change in coastal social-ecological systems: perspectives from a multi-stakeholder approach in Nakatsu mudflat, Japan. *Ocean and Coastal Management*, **243**: 106729
- Naidoo, M., **Gasparatos, A.**, 2023. Consumer worldviews and perspectives on environmental sustainability initiatives in the South African supermarket sector. *Journal of Cleaner Production*, **413**: 137496
- Rossignoli, C.M., Lozano Lazo, D.P., Barman, B.K., Dompreeh, E.B., Manyise, T., Wang, Q., Dam Lam, R., Moruzzo, R., Mendez, A.P., **Gasparatos, A.**, 2023. Multi-stakeholder perception analysis of the status and factors affecting small-scale carp aquaculture production in Bangladesh. *Frontiers in Sustainable Food Systems*, **7**:1121434.
- Gasparatos, A.**, von Maltitz, G., Ahmed, A., Dompreeh, E., Jarzebski, M., Saito, O., Luhanga, D., Rigolot, C., Lozano, D., 2023. Mobilizing participatory approaches to introduce transdisciplinary research elements when exploring the interface of commodity crop production and food security in Sub-Saharan Africa. *Frontiers in Sustainable Food Systems*, **7**:1132465.
- Su, J., Peng, B., **Gasparatos, A.**, 2023. Perceptions about mangrove restoration and ecosystem services to inform ecosystem-based restoration in Large Xiamen Bay, China. *Landscape and Urban Planning*, **235**: 104763
- Dam Lam, R., Huynh, L.T.M., Lozano, D., **Gasparatos, A.**, 2023. Diet change and sustainability in indigenous areas: Characteristics, drivers, and impacts of diet change in Gunayala, Panama. *Sustainability Science*, In Press, <https://doi.org/10.1007/s11625-023-01325-0>
- Hahn, T., Sioen, G.B., **Gasparatos, A.**, Elmqvist, T., Brondizio, E., Gomez-Baggethun, E., Folke, C., Jarzebski, M.P., Takeuchi, K., Fukushi, K., Setiawati, M.D., Enggar, A., Tri, A., 2023. Insurance value of biodiversity in the Anthropocene is the full resilience value. *Ecological Economics*, **208**: 107799
- Dam Lam, R., **Gasparatos, A.**, 2023. Unpacking modernization, development, and sustainability in indigenous Gunas communities of Panama. *People and Nature*, **5**, 774-794.
- Yussif, K., Dompreeh, E.B., **Gasparatos, A.**, 2023. Sustainability of urban expansion in Africa: A systematic literature review using the Drivers-Pressures-State-Impacts-Responses (DPSIR) framework. *Sustainability Science*, **18**, 1459–1479

- Wang, Q., Rossignoli, C., Dompheh, E., Su, J., Ali, A., Karim, M., **Gasparatos, A.**, 2023. Sustainable intensification of small-scale aquaculture production in Myanmar through diversification and better management practices. *Environmental Research Letters*, **18**: 015002
- Ahmed, A., Lozano, D., Alatinga, K.A., **Gasparatos, A.**, 2023. From Ampesie to French Fries: Systematising the characteristics, drivers and impacts of diet change in rapidly urbanising Accra. *Sustainability Science*, In Press, <https://doi.org/10.1007/s11625-022-01195-y>
- Lozano, D., Bojanic Helbingen, C., **Gasparatos, A.**, 2023. Household waste generation, composition and determining factors in rapidly urbanizing developing cities: case study of Santa Cruz de la Sierra, Bolivia. *Journal of Material Cycles and Waste Management*, **25**, 565–581
- Long, Y., Yoshida, Y., Liqiao, H., **Gasparatos, A.**, 2022. Carbon footprint differentiation in the Japanese residential sector due to income-driven divergences in consumption and time allocation. *Earth's Future*, **10**: e2022EF002954
- Huynh, L.T.M., **Gasparatos, A.**, Su, J., Dam Lam, R., Grant, E.I., Fukushi, K., 2022. Linking the non-material dimensions of human-nature relations and human wellbeing through cultural ecosystem services. *Science Advances*, **8**: eabn8042
- Silva-Olaya, A.M., España-Cetina, G.P., Olaya-Montes, A., Grados, D., Ortiz-Moreno, F.A., **Gasparatos, A.**, Cherubin, M.R., 2022. Composite index for soil-related ecosystem services assessment: insights from rainforest-pasture transitions in the Colombian Amazon. *Ecosystem Services*, **57**: 101463
- Su, J., Yin, B., Chen, L., **Gasparatos, A.**, 2022. Priority areas for mixed-species mangrove restoration: the suitable species in the right sites. *Environmental Research Letters* **17**: 065001
- Aleksejeva, J., Voulgaris, G., **Gasparatos, A.**, 2022. Assessing the potential for strategic green roof implementation for green infrastructure: insights from Sumida ward, Tokyo. *Urban Forestry and Urban Greening*, **74**: 127632
- Gasparatos, A.**, Mudombi, S., Balde, B., von Maltitz, G., Johnson, FX, Romeu-Dalmau, C., Jumbe, C., Ochieng, C., Luhanga, D., Nyambane, A., Rossignoli, C., Jarzebski, M., Dam Lam, R., Dompheh, E.B., Willis, KJ. 2022. Local food security impacts of biofuel crop production in southern Africa. *Renewable and Sustainable Energy Reviews*, **154**: 111875
- Priyadarshini, P., Bundela, A.K., **Gasparatos, A.**, Stringer, L.C., Dhyani, S., Dasgupta, R., Reddy, C.S., Baral, H., Muradian, R., Karki, M., Abhilash, P.C., Peñuelas, J., 2022. Advancing Global Biodiversity Governance: Recommendations for Strengthening the Post-2020 Global Biodiversity Framework. *Anthropocene Science*, **1**, 195-203.
- Long, Y., Yoshida, Y., Wang, D., Yao, L., **Gasparatos, A.**, 2022. Spatial-temporal variation of CO₂ emissions from private vehicle use in Japan. *Environmental Research Letters*, **17**: 014042

- Dam Lam, R., Barman, B.K., Lozano, D., Khatun, Z., Parvin, L., Choudhury, A., Rossignoli, C., Karanja, A., **Gasparatos, A.**, 2022. Sustainability impacts of ecosystem approaches to small-scale aquaculture in Bangladesh. *Sustainability Science*, **17**, 295–313
- Lozano, D., **Gasparatos, A.**, 2022. Factors influencing household-level positive and negative solid waste management practices in rapidly urbanizing cities: insights from Santa Cruz de la Sierra, Bolivia. *Environmental Research: Infrastructure and Sustainability*, **2**: 015002
- Kibria, A.S., Costanza, R., **Gasparatos, A.**, Soto, J., 2022. A composite human wellbeing index for ecosystem-dependent communities: a case study in the Sundarbans, Bangladesh. *Ecosystem Services*, **53**: 10138953
- Gupta, H., Nishi, M., **Gasparatos, A.**, 2022. Community-based responses for tackling change and associated impacts in mountain social-ecological systems. *Ambio*, **51**, 1123-1142.
- Su, J., Friess, D., **Gasparatos, A.**, 2021. A meta-analysis of the ecological and economic outcomes of mangrove restoration. *Nature Communications*, **12**: 5050
- Dompreeh, E.B., Asare, R., **Gasparatos, A.**, 2021. Stakeholder perceptions about the drivers, impacts and barriers of certification in the Ghanaian cocoa and oil palm sectors. *Sustainability Science*, **16**, 2101–2122
- Long, Y., Yoshida, Y., Liu, Q., Guan, D., Heran, Z., Li, Y., **Gasparatos, A.**, 2021. Japanese carbon emissions patterns shifted following the 2008 financial crisis and the 2011 Tohoku earthquake. *Communications Earth & Environment*, **2**: 125
- Long, Y., Jiang, Y., Chen, P., Yoshida, Y., Sharifi, A., **Gasparatos, A.**, Wu, Y., Kanemoto, K., Shigetomi, Y., Guan, D., 2021. Monthly direct and indirect greenhouse gases emissions from household consumption in the major Japanese cities. *Scientific Data*, **8**: 301
- Schaafsma, M., Eigenbrod, F., **Gasparatos, A.**, Gross-Camp, N., Hutton, G., Nunan, F., Schreckenberg, K., Turner, K., 2021. Trade-offs decisions in ecosystem management for poverty alleviation. *Ecological Economics*, **187**: 107103
- Long, Y., Guan, D., Kanemoto, K., **Gasparatos, A.**, 2021. Negligible impacts of early COVID-19 confinement on household carbon footprints in Japan. *One Earth*, **4**, 553-564
- Mudombi, S., Ochieng, C., Johnson, F.X., von Maltitz, G., Luhanga, D., Dompreeh, E.B., Romeu-Dalmau, C., **Gasparatos, A.**, 2021. Fuelling rural development? The impact of biofuel feedstock production in southern Africa on household income and expenditures. *Energy Research and Social Science*, **76**: 102053
- Gasparatos, A.**, Ahmed, A. Voigt, C., 2021. Facilitating policy responses for renewable energy and biodiversity. *Trends in Ecology and Evolution*, **36**, 377-380

- Dompreh, E.B., Asare, R., **Gasparatos, A.**, 2021. Sustainable but hungry? Food security outcomes of certification for cocoa and oil palm smallholders in Ghana. *Environmental Research Letters*, **16**: 055001
- Thwe, E., Khatiwada, D., **Gasparatos, A.**, 2021. Life cycle assessment of a cement plant in Naypyitaw, Myanmar. *Cleaner Environmental Systems*, **2**: 100007
- Jarzebski, M.P., Elmqvist, T., **Gasparatos, A.**, Fukushi, K., Eckersten, S., Haase, D., Goodness, J., Khoshkar, S., Saito, S., Takeuchi, K., Theorell, T., Dong, N., Kasuga, F., Watanabe, R., Sioen, G.B., Yokohari, M., Pu, P., 2021. Ageing and population shrinking: Implications for sustainability in the Urban Century. *npj Urban Sustainability*, **1**: 17
- Dompreh, E.B., Asare, R., **Gasparatos, A.**, 2021. Do voluntary certification standards improve yields and wellbeing? Evidence from oil palm and cocoa smallholders in Ghana. *International Journal of Agricultural Sustainability*, **19**, 16-39
- Shrestha, S., Yoshinaga, E., Chapagain, S., Mohan, G., **Gasparatos, A.**, Fukushi, K., 2021. Wastewater-based epidemiology for cost-effective mass surveillance of COVID-19 in low- and middle-income countries: challenges and opportunities. *Water*, **13**: 2897
- Payus, C.M., Refdin, M.A., Zahari, N.Z., Rimba, A.B., Geetha, G., Saroj, G., **Gasparatos, A.**, Fukushi, K., Alvin Oliver, P., 2021. Durian husk wastes as low-cost adsorbent for physical pollutants removal: groundwater supply. *Materials Today: Proceedings*, **42**, 80-87
- Ebi, K.L., Harris, F., Sioen, G.B., Wannous, C., Anyamba, A., Bi, P., Boeckmann, M., Bowen, K., Cissé, G., Dasgupta, P., Dida, G.O., **Gasparatos, A.**, Gatzweiler, F., Javadi, F., Kanbara, S., Kone, B., Maycock, B., Morse, A., Murakami, T., Mustapha, A., Pongsiri, M., Suzan, G., Watanabe, C., Capon, A., 2020. Transdisciplinary research priorities for human and planetary health in the context of the 2030 Agenda for Sustainable Development. *International Journal of Environmental Research and Public Health*, **17**: 8890
- Hong, H., **Gasparatos, A.**, 2020. Eco-industrial parks in China: key institutional aspects, sustainability impacts, and implementation gaps. *Journal of Cleaner Production*, **274**: 122853
- Ahmed, A., **Gasparatos, A.**, 2020. Reconfiguration of land politics in Community Resource Management Areas in Ghana: insights from the Avu Lagoon CREMA. *Land Use Policy*, **97**: 104786
- Helen, **Gasparatos, A.**, 2020. Ecosystem service provision from urban agriculture in a secondary city of Myanmar, Pyin Oo Lwin. *Agriculture*, **10**: 140
- Payus, C., Huey, L.A., Adnan, F., Rimba, A.B., Mohan, G., Chapagain, S.K., Roder, G., **Gasparatos, A.**, Fukushi, K., 2020. Impact of extreme drought climate on water security in North Borneo: Case study of Sabah. *Water*, **12**: 1135

- Nasr-Allah, A., **Gasparatos, A.**, Karanja, A., Dompok, E., Murphy, S., Rossignoli, C., Phillips, M., Karisa, H.C., 2020. Employment generation in the Egyptian aquaculture value chain: implications for meeting the Sustainable Development Goals (SDGs). *Aquaculture*, **520**: 734940
- Chakraborty, S., **Gasparatos, A.**, Blasiak, R., 2020. Multiple values for the management and sustainable use of coastal and marine ecosystem services. *Ecosystem Services*, **41**: 101047
- Karanja, A., **Gasparatos, A.**, 2020. Adoption of improved biomass stoves in Kenya: a transect-based approach in Kiambu and Muranga counties. *Environmental Research Letters*, **15**: 024020
- Ahmed, A., **Gasparatos, A.**, 2020. Multi-dimensional energy poverty patterns around industrial crop projects in Ghana: exploring the energy poverty alleviation potential of rural development strategies. *Energy Policy*, **137**: 111123
- Jarzebski, M.P., Ahmed, A., Boafo, Y.A., Balde, B.S., Chinangwa, L., Saito, O., von Maltitz, G., **Gasparatos, A.**, 2020. Food security impacts of industrial crop production in sub-Saharan Africa: a systematic review of the impact mechanisms. *Food Security*, **12**, 105–135.
- Karanja, A., Mburu, F., **Gasparatos, A.**, 2020. A multi-stakeholder perception analysis of the adoption, impacts and priority areas in the Kenyan clean cooking sector. *Sustainability Science*, **15**, 333–351.