January 2026

Publication list - Georgia (Gia) Destouni

- 250 journal articles (1-250)
- 25 books and book chapters (251-275)
- 58 application reports[294-351], 17 open access dataset syntheses[277-293], dissertation[276] (276-351)
- 148 outreach and engagement examples (352-499)

Journal articles

2026

1. Painter SL, **Destouni G**, **Hydrology in the age of artificial intelligence: From fragmentation to coherent terrestrial hydrosphere science**, *Water Resources Research*, 62, e2026WR043509, 2026. https://doi.org/10.1029/2026WR043509
2. Kan J-C, Vieira Passos M, **Destouni G**, Barquet K, Ferreira CSS, Kalantari Z, **Forecasting heat-related impacts with multivariate multi-step time series models using advanced deep learning**, *Sustainable Cities and Society*, 137, 107142, 2026. https://doi.org/10.1016/j.scs.2026.107142

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4. **Destouni G**, **Coherent Integration of the Terrestrial Hydrosphere: Needs and Pathways for Knowledge Convergence**, *Environmental Modelling & Software*, 106663, 2025. https://doi.org/10.1016/j.envsoft.2025.106663
5. **Destouni G**, Zarei M, **Hydro-Climatic Variations, Changes, and Extremes in the Baltic Sea Drainage Basin**, *Frontiers in Environmental Science*, 1601433, 2025. https://doi.org/10.3389/fenvs.2025.1601433
6. Zarei M, **Destouni G**, **A hydro-climatic data synthesis for Sub-Saharan Africa: facilitating water balance closure with different comparative datasets**, *Frontiers in Environmental Science*, 13:1646528, 2025. https://doi.org/10.3389/fenvs.2025.1646528
7. Zarei M, **Destouni G**, **Baltic Hydro-Climatic Data: A regional data synthesis for the Baltic Sea Drainage Basin**, *Frontiers in Earth Science*, 13:1595943, 2025. https://doi.org/10.3389/feart.2025.1595943
8. Vijayan A, Kalantari Z, **Destouni G**, **A Conceptual Model Framework for Integrating Monitored-Unmonitored and Surface-Subsurface Flow Contributions to the Baltic Sea**, *Frontiers in Earth Science*, 13, 1601966, 2025. https://doi.org/10.3389/feart.2025.1601966
9. Jaramillo, F., Papa, F., Wang, J., Wdowinski, S., **Destouni, G.**, Famiglietti, J., **A special collection on hydrogeodesy in a new era of satellites for better understanding and management of water resources**. *Water Resources Research*, *61*, e2025WR040585, 2025. https:// doi.org/10.1029/2025WR040585
10. Vieira Passos, M., Kan, JC., **Destouni, G.**, Barquet, K., Brandimarte, L., Kalantari Z., **Estimation of cascading hydroclimatic hazard impacts on supply systems and associated economic shocks**, *npj Natural Hazards* **2**, 81, 2025. https://doi.org/10.1038/s44304-025-00129-9
11. Zhou, Y., Di, Y., Huang, X., Fu, S., Qi, X., He, C., **Destouni, G.**, **Steep Sustainability Challenges in Transboundary Basins Worldwide**, *Environmental Science and Ecotechnology*, 27, 100611, 2025. https://doi.org/10.1016/j.ese.2025.100611
12. Liu J, Pang X, Jing H, Wang M, Shen L, Yan X, Zhang Q, **Destouni G**, **Climate change impacts on hydrological regimes under spatially variable human-activity conditions**, *Front. Earth Sci.*, 13, 1656661, (2025). https://doi.org/10.3389/feart.2025.1656661
13. Zhou K, Kong F, Yin H, **Destouni G**, Zhuang X, Ban Y, Chen L, **Urban green infrastructure for flood resilience: Runoff sink-source regime shifts and vegetation structure influences**, *Geography and Sustainability*, 100333, 2025. https://doi.org/10.1016/j.geosus.2025.100333
14. Kan J-C, Vieira Passos M, **Destouni G**, Barquet K, Ferreira CSS, Kalantari Z, **Seasonal Heatwave Forecasting with Explainable Machine Learning and Remote Sensing Data**, *Stochastic Environmental Research and Risk Assessment*, 2025. https://doi.org/10.1007/s00477-025-03020-1
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17. Vieira Passos M., Barquet K., Kan J. C., **Destouni G.**, Kalantari Z., **Hydrometeorological resilience assessment of interconnected critical infrastructures**, *Sustainable and Resilient Infrastructure*, 1–17, 2025. https://doi.org/10.1080/23789689.2024.2446124
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19. Andersson M., Beiter K., Davé R., **Destouni G.**, Fendji J. L., Frevel C., Goldin I., Howe C., Inusah H., Kandie F., Olukoju A., Otchere E., Oxelman B., Seppelt R., van Klinken A., van der Merwe C., van Wyk A., Westerhoff H. V., Woafo P., **Lessons from Africa's first institute of advanced study**. *Nature Africa*, 17 March, 2025. https://doi.org/10.1038/d44148-025-00074-9
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21. Xenopoulos, M. A., Beal, L., Caprarelli, G., Caylor, K., **Destouni, G.**, Duan, Q., Hauck, S. A. II, Huber, M., Karnauskas, K. B., Lajtha, K., Lugaz, N., Montanari, A., Nguyen, H., Parrish, J. K., Rowan, A., Santos, I. R., Schubnel, A., Wysession, M., **Commitment to advance excellence and inclusion in the Earth and space sciences scholarly publications**. *AGU Advances*, *6*, e2025AV001726, 2025. https://doi.org/10.1029/2025AV001726

2024 – 10 papers

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23. Jaramillo F., Aminjafari S., Castellazzi P., Fleischmann A., Fluet-Chouinard E., Hashemi H., Hubinger C, Martens HR, Papa F, Schöne T, Tarpanelli A, Virkki V, Wang-Erlandsson L, Abarca del Rio R, Borsa A, **Destouni G**, Di Baldassarre G, Moore M-L, Posada-Marín JA, Wdowinski S, Werth S, Argus D, Elmi O, Fenoglio L, Frappart F, Huggins X, Kalantari Z, Munier S, Palomino-Ángel S, Robinson A, Rubiano K, Siles G, Simard M, Song C, Spence C, Tourian MJ, Wada Y, Wang C, Wang J, Yao F, Berghuijs WR, Cretaux J-F, Famiglietti J, Fassoni-Andrade A, Fayne JV, Girard F, Kummu M, Larson KM, Maranon M, Moreira DM, Nielsen K, Pavelsky T, Pena F, Reager JT, Rulli MC, Salazar JF, **The potential of hydrogeodesy to address water-related and sustainability challenges**. *Water Resources Research*, *60*, e2023WR037020, 2024. https://doi.org/10.1029/2023WR037020
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26. Vieira Passos M, Kan JC, **Destouni G**, Barquet K, Kalantari Z, Identifying regional hotspots of heatwaves, droughts, floods, and their co-occurrences, *Stoch Environ Res Risk Assess*, 38, 3875–3893, 2024. https://doi.org/10.1007/s00477-024-02783-3
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30. Zarei M, **Destouni G**, **Research Gaps and Priorities for Terrestrial Water and Earth System Connections from Catchment to Global Scale**, *Earth's Future*, 12, e2023EF0037922023, 2024. https://doi.org/10.1029/2023EF003792
31. AGU Editorial Network (incl. **G Destouni**), **Challenges Facing Scientific Publishing in the Field of Earth & Space Sciences**, *AGU Advances*, 5, e2024AV001334, 2024. https://doi.org/10.1029/2024AV001334

2023 – 9 papers

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33. Islam, S., Illangasekare, T. H., Selker, J., **Destouni, G.**, **Looking for theory-practice synthesis for actionable outcomes: A Continuing Special Collection for Translational Water Research**. *Water Resources Research*, *59*, e2023WR036728, 2023. https://doi.org/10.1029/2023WR036728
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44. Vigouroux G, **Destouni G**, **Gap identification in coastal eutrophication research – Scoping review for the Baltic system case**, *Science of the Total Environment*, 839, 156240, 2022. https://doi.org/10.1016/j.scitotenv.2022.156240
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2020 – 14 papers

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