

G.-Fivos Sargentis - Full Publication List

Categorized publication list generated from the uploaded publications source. Active links are listed below each entry.

Peer-reviewed journal publications / Δημοσιεύσεις σε επιστημονικά περιοδικά

1. Sargentis G.-F.; Papadodimas N.; Benekos I.; Katsoulakos N.M.; Dimitriadis P.; Tepetidis N.; Ioannidis R.; Arvanitidis I.; Angelidis M.-A.; Saperopoulou D.; Laoutaris G.-D.; Maravelakis M.; Amiralis O.-I.; Markantonis D.; Alexandridou A.; Mamassis N.; Koutsoyiannis D. Stochastic Assessment of Renewable Energy Reliability: A Case Study of North Euboea, Greece . Journal of Energy and Power Technology 2026; 8(2): 008; <http://dx.doi.org/10.21926/jept.2602008>.

Links: <https://www.lidsen.com/journals/jept/jept-08-02-008>

2. Angelakis, A.N.; Capodaglio, A.G.; Tzanakakis, V.A.; Sargentis, G.-F. Learning from the Past to Secure the Future: Greek Hydro-Technologies and the Evolution of Water Management . Sustainability 2026, 18 , 3753. <https://doi.org/10.3390/su18083753>

Links: <https://doi.org/10.3390/su18083753>

3. Sigourou S.; Dimitriadis P.; Pagana V.; Tsouni A.; Iliopoulou T.; Sargentis G.-F.; Ioannidis R.; Dimitrakopoulou D.; Chardavellas E.; Mamassis N.; Koutsoyiannis D.; Kontoes CH. Developing an integrated methodology for flood-hazard assessment: application to the Pikrodafni River Basin (Attica, Greece) . Front. Built Environ . 2026, 12:1768439. <http://dx.doi.org/10.3389/fbuil.2026.1768439>

Links: <https://www.frontiersin.org/journals/built-environment/articles/10.3389/fbuil.2026.1768439/full>

4. Sargentis G.-F., Baroudi S, Angelidis M.-A., Arvanitidis I, Mamassis N, Ioannidis R. Restoring the Resilience of Water-Energy-Food Nexus Based on Desalination through Biomass Management: Case Study West Mani, Greece. Adv Environ Eng Res 2026, 7(1): 005; <http://dx.doi.org/10.21926/aeer.2601005>

Links: <https://www.lidsen.com/journals/aeer/aeer-07-01-005>

5. Angelakis, A.N.; Sargentis, G.-F.; Gigourtakis, N.; Kourgialas, N.N. Hydro-Technologies in Greece from Prehistory to Modern Times: A Review of Water Management, Sustainability, and Resilience. Water 2026, 18, 560. <https://doi.org/10.3390/w18050560>

Links: <https://www.mdpi.com/2073-4441/18/5/560>

6. Sargentis G.-F.; Arvanitidis I.; Angelidis M.-A. Geospatial Analysis of Energy Requirements for Supplying Desalinated Seawater to the Greek Territory . Clean Energy and Sustainability 2026, 4, 10001. <https://doi.org/10.70322/ces.2026.10001>

Links: <https://www.sciepublish.com/article/pii/868>

7. Koutsoyiannis, D.; Sargentis, G.-F. Trade-Off Between Entropy and Gini Index in Income Distribution . Entropy 2026, 28, 35. <https://doi.org/10.3390/e28010035>

Links: <https://doi.org/10.3390/e28010035>

8. Sargentis, G.-F.; Papadodimas, N. Questioning Canvas Capital: Risks and Resilience in Art Markets . Cultural Arts Research and Development , 5(2), 167–184 2025. <https://doi.org/10.55121/card.v5i2.720>

Links: <https://doi.org/10.55121/card.v5i2.720>

9. Sargentis G.-F.; Papadodimas N. Cultural Cells: A Circular Economy-Driven Blueprint for Creative Tourism and Regional Revitalization in Greece . Adv Environ Eng Res 2025; 6(4): 032. <http://dx.doi.org/10.21926/aeer.2504032>.

Links: <https://dx.doi.org/10.21926/aeer.2504032>

10. Sargentis, G.-F.; Palamarczuk, E.; Iliopoulou, T. Swimming Pools in Water Scarce Regions: A Real or Exaggerated Water Problem ? Case Studies from Southern Greece. Water 2025, 17, 2934. <https://doi.org/10.3390/w17202934>

Links: <https://doi.org/10.3390/w17202934>

11. Tsouni A.; Sigourou, S.; Pagana, V.; Tsoutsos M.-Ch.; Dimitriadis, P.; Sargentis, G.-F.; Iliopoulou, T.; Ioannidis, R.; Dimitrakopoulou, D.; Chardavelas E.; Alexopoulos M.-J.; Koukouvinos, A.; Mamassis N.; Koutsoyiannis D.; Kontoes C. Multi-Parameter Flood Risk Assessment and Management Planning at High Spatial Resolution in the Region of Attica, Greece . IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing , doi: 10.1109/JSTARS.2025.3613569.

Links: <https://ieeexplore.ieee.org/document/11176800/>

12. Sargentis, G.-F. Fragility in Human Progress. A Perspective on Governance, Technology and Societal Resilience Front. Complex Systems 2025. <https://doi.org/10.3389/fcpxs.2025.1609467>

Links: <https://doi.org/10.3389/fcpxs.2025.1609467>

13. Sargentis, G.-F.; Markatos, E.; Malamos, N.; Iliopoulou, T. Enhancing Resilience and Self-Sufficiency in the Water–Energy–Food Nexus: A Case Study of Hydroponic Greenhouse Systems in Central Greece . *Earth* 2025, 6, 95. <https://doi.org/10.3390/earth6030095>
Links: <https://www.mdpi.com/2673-4834/6/3/95>
14. Sargentis G.-F. Entropy and War, Toy Models . *Recent Prog Sci Eng* 2025; 1(2): 007; doi:10.21926/rpse.2502007.
Links: <https://www.lidsen.com/journals/rpse/rpse-01-02-007>
15. Sargentis, G.-F.; Iliopoulou, T.; Ioannidis, R.; Kougkia, M.; Benekos, I.; Dimitriadis, P.; Koukouvinos, A.; Dimitrakopoulou, D.; Mamassis, N.; Tsouni, A.; Sigourou, S.; Pagana, V.; Kontoes, C.; Koutsyiannis, D. Technological Advances in Flood Risk Assessment and Related Operational Practices Since the 1970s: A Case Study in the Pikrodafni River of Attica . *Water* 2025, 17(1), 112. <https://doi.org/10.3390/w17010112>
Links: <https://www.mdpi.com/2073-4441/17/1/112>
16. Sargentis G.-F.; Markantonis D. Water-energy-food nexus and its stochastic dynamics: case study Greece . *Discover Sustainability* , Springer-Nature, 2024, 5, 511. <https://doi.org/10.1007/s43621-024-00751-z>
Links: <https://link.springer.com/article/10.1007/s43621-024-00751-z>
17. Sargentis G.-F.; Mamassis N.; Koutsyiannis D. The multifaceted importance of mediterranean pine-tree forests to social cohesion. Energy, resin, grazing, and wildfire management in North Euboea, Greece . *Natural Resources Conservation and Research* . 2024, 7(2): 9962. <https://doi.org/10.24294/nrcr9962>
Links: https://www.itia.ntua.gr/en/getfile/2515/1/documents/Sci_The_multifaceted_importance_of_mediterranean_pine-tree_forest_s_to_soci...hesion.pdf
18. Sargentis G.-F.; Ioannidis R.; Dimitriadis,P.; Malamos N.; Lyra O.; Kitsou O.; Kougkia M.; Mamassis N.; Koutsyiannis D. Energy Self-Sufficiency in Rural Areas, Case Study: North Euboea, Greece . *Advances in Environmental and Engineering Research* , 2024, 2766-6190. <https://doi.org/10.21926/aeer.2404025>
Links: <https://www.lidsen.com/journals/aeer/aeer-05-04-025>
19. Sargentis G.-F.; Ioannidis R.; Mamassis N.; Zoukos V.; Koutsyiannis D. A Review of the Energy Policy in Greece in the Last 50 Years and Its Implications for Prosperity . *Clean Energy and Sustainability* 2024, 2, 10021. <https://doi.org/10.70322/ces.2024.10021>
Links: <https://doi.org/10.70322/ces.2024.10021>
20. Sargentis G.-F.; Ioannidis R. The impacts of altering biodiversity to the Water–Energy–Food nexus: case study North Euboea, Greece . *Discover Water*, Springer-Nature, 2024 , 4, 105. <https://doi.org/10.1007/s43832-024-00165-y>
Links: <https://doi.org/10.1007/s43832-024-00165-y>
21. Sargentis G.-F.; Moraiti K.; Benekos I.; Ioannidis R.; Mamassis N. Fast-Track Documentation of the Alterations on the Landscape, before and after a Natural Hazard—Case Study: North Euboea Greece before and after Storms Daniel and Elias . *Rural and Regional Development* . 2024, 2, 10016. <https://doi.org/10.70322/rrd.2024.10016>
Links: <https://www.sciepublish.com/article/pii/265>
22. Moraiti K.; Sigourou S.; Dimitriadis P.; Ioannidis R.; Benekos I.; Iliopoulou T.; Kitsou O.; Mamassis N.; Koutsyiannis D.; Sargentis G.-F. Documenting the Changing Floodplain of Nileas Basin in North Euboea (Greece) before and after Storms Daniel and Elias . *Rural and Regional Development* . 2024, 2(3):10013. <https://doi.org/10.35534/rrd.2024.10013>
Links: <https://doi.org/10.35534/rrd.2024.10013>
23. Sargentis G.-F.; Kougkia M. Vulnerabilities of water-energy and food nexus in cities of digital era . *Insight - Civil Engineering* . 2024, 7(1): 608. <https://doi.org/10.18282/ice.v7i1.608>
Links: <https://pdfs.semanticscholar.org/5dcf/2ccd6c5fcab4725a80ee4fe536f6cf9122cf.pdf>
24. Sargentis G.-F.; Mamassis N.; Kitsou O.; Koutsyiannis D. The role of technology in the water–energy–food nexus. A case study: Kerinthos, North Euboea, Greece. *Front. Water* 6:1343344, 2024. <https://doi.org/10.3389/frwa.2024.1343344>
Links: <https://doi.org/10.3389/frwa.2024.1343344>
25. Wang, N.; Sun, F.; Koutsyiannis, D.; Iliopoulou, T.; Wang, T.; Wang, H.; Liu, W.; Sargentis,G.-F.; Dimitriadis, P. How can changes in the human-flood distance mitigate flood fatalities and displacements? *Geophysical Research Letters* , 50, 2023, e2023GL105064. <https://doi.org/10.1029/2023GL105064>
Links: <https://doi.org/10.1029/2023GL105064>
26. Sargentis, G.-F.; Koutsyiannis, D. The Function of Money in Water–Energy–Food and Land Nexus. *Land* 2023, 12, 669. <https://doi.org/10.3390/land12030669>
Links: <https://www.mdpi.com/2073-445X/12/3/669>
27. Markantonis, D.; Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Siganou, A.; Moraiti, K.; Nikolinakou, M.; Meletopoulos, I.T.; Mamassis, N.; Koutsyiannis, D. Stochastic Evaluation of the Investment Risk by the Scale of Water Infrastructures—Case Study: The Municipality of West Mani (Greece). *World* 2023, 4, 1-20.

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28. Iliopoulou, T.; Dimitriadis, P.; Siganou, A.; Markantonis, D.; Moraiti, K.; Nikolinakou, M.; Meletopoulos, I.T.; Mamassis, N.; Koutsoyiannis, D.; Sargentis, G.-F. Modern Use of Traditional Rainwater Harvesting Practices: An Assessment of Cisterns' Water Supply Potential in West Mani, Greece. *Heritage* 2022, 5, 2944-2954.

<https://doi.org/10.3390/heritage5040152>

Links: <https://www.mdpi.com/2571-9408/5/4/152>

29. Sargentis, G.-F.; Lagaros, N.D.; Cascella, G.L.; Koutsoyiannis, D. Threats in Water-Energy-Food-Land Nexus by the 2022 Military and Economic Conflict. *Land* 2022, 11, 1569. <https://doi.org/10.3390/land11091569>

Links: <https://www.mdpi.com/2073-445X/11/9/1569>

30. Sargentis, G.-F.; Koutsoyiannis, D.; Angelakis, A.; Christy, J.; Tsonis, A.A. Environmental Determinism vs. Social Dynamics: Prehistorical and Historical Examples. *World* 2022, 3, 357-388. <https://doi.org/10.3390/world3020020>

Links: <https://www.mdpi.com/2673-4060/3/2/20>

31. Sargentis, G.-F.; Defteraios, P.; Lagaros, N.D.; Mamassis, N. Values and Costs in History: A Case Study on Estimating the Cost of Hadrianic Aqueduct's Construction. *World* 2022, 3, 260-286. <https://doi.org/10.3390/world3020014>

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32. Sargentis, G.-F.; Ioannidis, R.; Bairaktaris, I.; Frangedaki, E.; Dimitriadis, P.; Iliopoulou, T.; Koutsoyiannis, D.; Lagaros, N.D. Wildfires vs. Sustainable Forest Partitioning. *Conservation* 2022, 2, 195-218.

<https://doi.org/10.3390/conservation2010013>

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33. Ioannidis, R.; Sargentis, G.-F.; Koutsoyiannis, D. Landscape design in infrastructure projects - is it an extravagance? A cost-benefit investigation of practices in dams, *Landscape Research*, 2022.

<https://doi.org/10.1080/01426397.2022.2039109>

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34. Sargentis, G.-F.; Frangedaki, E.; Chiotinis, M.; Koutsoyiannis, D.; Camarinopoulos, S.; Camarinopoulos, A.; Lagaros, N.D. 3D Scanning/Printing: A Technological Stride in Sculpture. *Technologies* 2022, 10, 9.

<https://doi.org/10.3390/technologies10010009>

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35. Koutsoyiannis, D.; Sargentis, G.-F. Entropy and Wealth. *Entropy* 2021, 23, 1356.

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36. Sargentis, G.-F.; Siamparina, P.; Sakki, G.-K.; Efstratiadis, A.; Chiotinis, M.; Koutsoyiannis, D. Agricultural Land or Photovoltaic Parks? The Water-Energy-Food Nexus and Land Development Perspectives in the Thessaly Plain, Greece. *Sustainability* 2021, 13, 8935. <https://doi.org/10.3390/su13168935>

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37. Dimitriadis, P.; Iliopoulou, T.; Sargentis, G.-F.; Koutsoyiannis, D. Spatial Hurst-Kolmogorov Clustering. *Encyclopedia* 2021, 1, 1010-1025. <https://doi.org/10.3390/encyclopedia1040077>

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38. Sargentis, G.-F.; Iliopoulou, T.; Dimitriadis, P.; Mamassis, N.; Koutsoyiannis, D. Stratification: An Entropic View of Society's Structure. *World* 2021, 2, 153-174. <https://doi.org/10.3390/world2020011>

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39. Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Koutsoyiannis, D. A Stochastic View of Varying Styles in Art Paintings. *Heritage* 2021, 4, 333-348. <https://doi.org/10.3390/heritage4010021>

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40. Sargentis, G.-F.; Ioannidis, R.; Iliopoulou, T.; Dimitriadis, P.; Koutsoyiannis, D. Landscape Planning of Infrastructure through Focus Points' Clustering Analysis. Case Study: Plastiras Artificial Lake (Greece). *Infrastructures* 2021, 6, 12.

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41. Sargentis, G.-F.; Iliopoulou, T.; Sigourou, S.; Dimitriadis, P.; Koutsoyiannis, D. Evolution of Clustering Quantified by a Stochastic Method—Case Studies on Natural and Human Social Structures. *Sustainability* 2020, 12, 7972.

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42. Sargentis, G.-F.; Dimitriadis, P.; Koutsoyiannis, D. Aesthetical Issues of Leonardo Da Vinci's and Pablo Picasso's Paintings with Stochastic Evaluation . *Heritage* 2020, 3, 283-305. <https://doi.org/10.3390/heritage3020017>
Links: <https://www.mdpi.com/2571-9408/3/2/17>
43. Sargentis, G.-F.; Dimitriadis, P.; Ioannidis, R.; Iliopoulou, T.; Frangedaki, E.; Koutsoyiannis, D. Optimal utilization of water resources for local communities in mainland Greece (case study of Karyes, Peloponnese) , *Procedia Manufacturing* , Volume 44, 2020, Pages 253-260, ISSN 2351-9789. <https://doi.org/10.1016/j.promfg.2020.02.229>
Links: <https://doi.org/10.1016/j.promfg.2020.02.229>
44. Frangedaki, E.; Gao, X.; Lagaros, N. D.; Briseghella, B.; Marano, G. C.; Sargentis, G.-F.; Meimaroglou, N. Fujian Tulou Rammed Earth Structures: Optimizing Restoration Techniques Through Participatory Design and Collective Practices , *Procedia Manufacturing* , Volume 44, 2020, Pages 92-99, ISSN 2351-9789. <https://doi.org/10.1016/j.promfg.2020.02.209>
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45. Sargentis, G.-F.; Dimitriadis, P.; Ioannidis, R.; Iliopoulou, T.; Koutsoyiannis, D. Stochastic Evaluation of Landscapes Transformed by Renewable Energy Installations and Civil Works . *Energies* 2019, 12, 2817. <https://doi.org/10.3390/en12142817>
Links: <https://www.mdpi.com/1996-1073/12/14/2817>
46. Sargentis, G.-F.; Ioannidis, R.; Karakatsanis, G.; Sigourou, S.; Lagaros, N.D.; Koutsoyiannis, D. The Development of the Athens Water Supply System and Inferences for Optimizing the Scale of Water Infrastructures . *Sustainability* 2019, 11, 2657. <https://doi.org/10.3390/su11092657>
Links: <https://doi.org/10.3390/su11092657>
47. Hadjibiros, K.; Katsiri, A.; Andreadakis, A.; Koutsoyiannis, D.; Stamou, A.; Christofides, A.; Efstratiadis, A.; Sargentis, G.-F. Multi-criteria reservoir water management , *Global NEST Journal* , 7(3), 386-394, 2005. <https://doi.org/10.30955/gnj.000394>
Links: <http://itia.ntua.gr/el/docinfo/704/>
48. Christofides, A.; Efstratiadis, A.; Koutsoyiannis, D.; Sargentis, G.-F.; Hadjibiros, K. Resolving conflicting objectives in the management of the Plastiras Lake: can we quantify beauty? , *Hydrology and Earth System Sciences* , 9(5), 507-515, 2005. <https://doi.org/10.5194/hess-9-507-2005>
Links: <http://itia.ntua.gr/en/docinfo/683/>
49. Αποτίμηση του Εκπαιδευτικού Έργου και των Παρεχόμενων Υπηρεσιών του Ε.Μ.Π. , εκδ. Ε.Μ.Πολυτεχνείο, 1999. <http://nuclear.ntua.gr/aeepy/index/index.html>
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Conference presentations - peer reviewed / Ανακοινώσεις σε συνέδρια

1. Papadodimas, N., Laoutaris, G. D., Mamassis, N., and Sargentis, G.-F.: Reverse Engineering for the Chronology of Medieval Aqueducts: A Case Study of the Holy Monastery of Dochiariou, Mount Athos , *EGU General Assembly 2026*, Vienna, Austria, 3–8 May 2026, EGU26-14910, <https://doi.org/10.5194/egusphere-egu26-14910>, 2026.
Links: <https://doi.org/10.5194/egusphere-egu26-14910>
2. Arvanitidis, I. and Sargentis, G.-F.: Spatial Indicators of Dynamic Self-Sufficiency and Resilience in the Water–Energy–Food Nexus. Case study: Small Rural Village in North Euboea , Greece, *EGU General Assembly 2026*, Vienna, Austria, 3–8 May 2026, EGU26-14761, <https://doi.org/10.5194/egusphere-egu26-14761>, 2026.
Links: <https://doi.org/10.5194/egusphere-egu26-14761>
3. Maravitsas, K., Makris, P., Bousoula, T., Sargentis, G.-F., and Iliopoulou, T.: Comparison of temporal changes in aridity in European and African regions , *EGU General Assembly 2026*, Vienna, Austria, 3–8 May 2026, EGU26-9974, <https://doi.org/10.5194/egusphere-egu26-9974>, 2026.
Links: <https://doi.org/10.5194/egusphere-egu26-9974>
4. Bozanas, I. F., Sargentis, G.-F., and Iliopoulou, T.: European snow dynamics and changing patterns under climate variability , *EGU General Assembly 2026*, Vienna, Austria, 3–8 May 2026, EGU26-10737, <https://doi.org/10.5194/egusphere-egu26-10737>, 2026.
Links: <https://doi.org/10.5194/egusphere-egu26-10737>
5. Kopelia, S., Tepetidis, N., Tzortzi, J. N., Sargentis, G.-F., and Ioannidis, R.: Integrating Participatory Perception-Mapping Data and Stochastic Image Analysis for Urban Landscape Assessment , *EGU General Assembly 2026*, Vienna, Austria, 3–8 May 2026, EGU26-13270, <https://doi.org/10.5194/egusphere-egu26-13270>, 2026.
Links: <https://doi.org/10.5194/egusphere-egu26-13270>

6. Saperopoulou, D., Kouzelis, V., Sargentis, G.-F., Efstratiadis, A., and Tepetidis, N.: Social prosperity and natural resource management: Stochastic evaluation of two operational paradigms of pumped-storage hydropower in North Euboea under renewable energy integration and energy market dynamics , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-8099, <https://doi.org/10.5194/egusphere-egu26-8099>, 2026.

Links: <https://doi.org/10.5194/egusphere-egu26-8099>

7. Pagoulatau, P., Mandilaki, E., Iliopoulou, T., Sargentis, G.-F., and Ioannidis, R.: Stochastic Investigation of Solar and Wind Processes for Renewable Energy Storage in Greece , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-9942, <https://doi.org/10.5194/egusphere-egu26-9942>, 2026.

Links: <https://doi.org/10.5194/egusphere-egu26-9942>

8. Maravelakis, M., Iliopoulou, T., and Sargentis, G.-F.: The Water-Energy-Food Nexus in Naxos Island: Enhancing Self-Sufficiency Through Traditional Techniques , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-12878, <https://doi.org/10.5194/egusphere-egu26-12878>, 2026.

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9. Cuny, S., Dimitriadis, P., Koutsoyiannis, D., Sargentis, G.-F., and Iliopoulou, T.: Uncertainty Evaluation of Hydraulic Jumps in Open-Surface Flows , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-8394, <https://doi.org/10.5194/egusphere-egu26-8394>, 2026.

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10. Bourbon, M., Sargentis, G.-F., Iliopoulou, T., Koutsoyiannis, D., and Dimitriadis, P.: Uncertainty Evaluation of Hydraulic Losses in Closed Pipes , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-10560, <https://doi.org/10.5194/egusphere-egu26-10560>, 2026.

Links: <https://doi.org/10.5194/egusphere-egu26-10560>

11. Angelidis, M. A., Arvanitidis, I., Ioannidis, R., and Sargentis, G.-F.: Spatial Analysis of Desalination Energy Demand in Greece: Feasibility Zones from the Coastline for Water-Energy Planning , EGU General Assembly 2026, Vienna, Austria, 3-8 May 2026, EGU26-8222, <https://doi.org/10.5194/egusphere-egu26-8222>, 2026.

Links: <https://doi.org/10.5194/egusphere-egu26-8222>

12. Sargentis, G.-F. Detecting universal archetypes of "culture heroes" Dayu and Hercules , 5th International Seminar on Water Culture Water and Human Ingenuity: Enduring inspirations of Dayu, UNESCO-IWHR, Shaoxing China, November 2025.

Links: <https://www.itia.ntua.gr/en/docinfo/2575/>

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