
VASSILIOS PISINARAS

Researcher
(Grade C')



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SCIENTIFIC INTERESTS

- ✓ Hydrologic/hydrogeologic modeling
- ✓ Water resources management and optimization.
- ✓ Sensor-based environmental monitoring.
- ✓ Precise irrigation, irrigation scheduling
- ✓ Investigation of climate change impact in water resources.
- ✓ Seawater intrusion on aquifers
- ✓ Investigation and implementation of NEXUS management
- ✓ Implementation of artificial intelligence in groundwater management

RESEARCH EXPERIENCE

RESEARCHER (GRADE C')
SOIL & WATER RESOURCES INSTITUTE
HELLENIC AGRICULTURAL ORGANIZATION (HAO) "DEMETER"
05/2017 - Today

Registered Research Field: Water resources management in agriculture

ON CONTRACT RESEARCHER

11/2003 – 04/2017

Contributed in 14 research project in cooperation with Democritus University of Thrace, University of Patras, Aristotle University of Thessaloniki & Hellenic Agricultural Organization

EDUCATION – SCHOLARSHIPS - METRICS

DIPLOMA IN ENVIRONMENTAL ENGINEERING

DEMOCRITUS UNIVERSITY OF THRACE/PERIOD: 1998-2003/SCORE: 7.66/10

DIPLOMA THESIS: Investigation of Groundwater Management Status and Groundwater Flow Simulation of N.Sidirochori aquifer, Northeastern Greece.

DOCTORATE OF PHILOSOPHY (PH.D)

DEMOCRITUS UNIVERSITY OF THRACE/PERIOD: 2004-2008/SCORE: Excellent

TITLE: Development of a Methodology Framework for Integrated Management of Complex Groundwater Systems

POSTDOCTORAL SCHOLARSHIP

ARISTOTLE UNIVERSITY OF THESSALONIKI/PERIOD: 2011

TITLE: Quantitative investigation and assessment of climate change impacts in water resources in watershed scale.

POSTDOCTORAL FUNDING

HELLENIC AGRICULTURAL ORGANIZATION "DEMETER"/PERIOD: 2015

TITLE: Rationalization of agricultural production in watershed scale aiming to reduce impacts in fisheries production and water quality of lagoons.

Google scholar: **h-index** = 15, **total citations** = 798

Articles in peer-reviewed journals: 30, Articles/abstracts in Conferences: 55

SELECTED RESEARCH PROJECTS

- 5/2021 - Today **REXUS: Managing Resilient Nexus Systems Through Participatory Systems Dynamics Modelling.** [HORIZON 2020 Programme](#)
Role: Scientific Responsible for SWRI
Coordinating Partner: UCLM/Spain
URL: <https://rexusproject.squarespace.com/>
- 5/2021 - Today **LENSES: Learning and action alliances for NexuS Environments.** [PRIMA Programme, Section 1](#)
Role: Scientific Responsible for SWRI
Coordinating Partner: CREA/Italy
URL: <https://www.era-learn.eu/network-information/networks/prima/section-1-call-2020-nexus/learning-and-action-alliances-for-nexus-environments>
- 10/2019 - Today **ATLAS: Agricultural Analysis and Interoperability System.** [HORIZON 2020 Programme](#)
Role: Scientific Responsible for SWRI
Coordinating Partner: CREA, Italy *URL:* <https://www.atlas-h2020.eu/>
- 09/2019 - Today **MEDSAL: Salinization of critical groundwater reserves in coastal Mediterranean areas: Identification, Risk Assessment and Sustainable Management with the use of integrated modelling and smart ICT tools.** [PRIMA Programme, Section 2](#)
Role: Team Member, Responsible for Artificial Intelligence models implementation and climate change impact assessment
Coordinating Partner: SWRI/Greece, *URL:* <https://medsal.eu/>
- 01/2015 - Today **Establishment and Operation of Pinios Hydrologic Observatory (LTER Site)**
Role: Head Scientist
Coordinating Partner: SWRI/Greece, FZI/Germany
URL: <https://www.lter-greece.gr/sites/pinios-hydrologic-observatory/>
- 2/2016 – 8/2020 **LIFE AgroCLimaWater: Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries.** [LIFE+ Programme](#)
Role: Scientific Responsible for SWRI
Coordinator Partner: HYETOS S.A.
URL: <http://www.lifeagroclimawater.eu/>
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SELECTED RESEARCH PAPERS IN SCIENTIFIC JOURNALS

1. **Pisinaras, V.,** Paraskevas, C., & Panagopoulos, A. (2021). Investigating the Effects of Agricultural Water Management in a Mediterranean Coastal Aquifer under Current and Projected Climate Conditions. *Water*, 13(1), 108.
 2. Kaffas, K., **Pisinaras, V.,** Al Sayah, M. J., Santopietro, S., & Righetti, M. (2021). A USLE-based model with modified LS-factor combined with sediment delivery module for Alpine basins. *CATENA*, 207, 105655.
 3. Bogena, H. R., Herrmann, F., Jakobi, J., Brogi, C., Ilias, A., Huisman, J. A., ... & **Pisinaras, V.** (2020). Monitoring of snowpack dynamics with cosmic-ray neutron probes: A comparison of four conversion methods. *Frontiers in water*, 2, 19.
 4. Tsakmakis, I. D., Kokkos, N. P., Gikas, G. D., **Pisinaras, V.,** Hatzigiannakis, E., Arampatzis, G., & Sylaios, G. K. (2019). Evaluation of AquaCrop model simulations of cotton growth under deficit irrigation with an emphasis on root growth and water extraction patterns. *Agricultural water management*, 213, 419-432.
 5. **Pisinaras, V.,** Panagopoulos, A., Herrmann, F., Bogena, H. R., Doulergis, C., Ilias, A., ... & Wendland, F. (2018). Hydrologic and geochemical research at Pinios Hydrologic Observatory: Initial results. *Vadose zone journal*, 17(1), 1-16.
 6. Tsakmakis I, Kokkos N, **Pisinaras V,** Papaevangelou V, Hatzigiannakis E, Arampatzis G, Gikas GD, et al. (2017) Operational Precise Irrigation for Cotton Cultivation through the Coupling of Meteorological and Crop Growth Models. *Water Resources Management* 31(1): 563-580.
 7. **Pisinaras V,** (2016) Assessment of future climate change impacts in a Mediterranean aquifer, using integrated modeling and bias corrected climate data. *Global Nest Journal*, 18(1): 119-130.
 8. Groenendijk P, Heinen M, Kammler G, Fank J, Kupfersberger H, **Pisinaras V,** Gemitzi A, Peña S, Prats AG, Pulido-Velazquez MA, Perego A, Trevisan M, Acutis M, (2014) Performance assessment of nitrate leaching models for coarse sandy soils with low input and organic farming. *Science of the Total Environment*, 499: 463–480.
 9. **Pisinaras V,** Wei Y, Barring L, Gemitzi A, (2014) Conceptualizing and assessing the effects of installation and operation of photovoltaic power plants on major hydrologic budget constituents. *Science of the Total Environment*, 493: 239-250.
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