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# VASSILIOS PISINARAS

Researcher  
(Grade D')

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+302310798790 (int. 120)



+306997712430



vpisinar@gmail.com



vasileios.pisinaras1



<https://www.linkedin.com/in/vasileios-pisinaras-18599019/?ppe=1>



[https://www.researchgate.net/profile/Vassilios\\_Pisinaras](https://www.researchgate.net/profile/Vassilios_Pisinaras)



<http://orcid.org/0000-0001-6094-7659>

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## SCIENTIFIC INTERESTS

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- ✓ Development and application of watershed management models.
- ✓ Hydrogeological processes simulation.
- ✓ Groundwater management optimization.
- ✓ Water quality and quantity monitoring and assessment.
- ✓ Simulation of crop-soil-water relations in vadose zone.
- ✓ Investigation of climate change impact in water resources.
- ✓ Seawater intrusion on aquifers

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## RESEARCH EXPERIENCE

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### RESEARCHER (GRADE D')

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, Soil & Water Resources Institute – HAO "DEMETER", Fisheries Research Institute – HAO "DEMETER"

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## EDUCATION - SCHOLARSHIPS

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### 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.

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## SELECTED RECENT RESEARCH PROJECTS

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- 02/2016 - Today **LIFE AgroCLimaWater: Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries.** [LIFE+ Programme](#)  
*Worked with:* Soil & Water Resources Institute, HAO "DEMETER"  
*Scientific Responsible:* Dr. G. Arampatzis/Dr. A Panagopoulos  
*Coordinator Partner:* HYETOS S.A. *URL:* <http://www.lifeagroclimawater.eu/>
- 08/2013 – 01/2016 **MARE NOSTRUM: Bridging the legal-institutional gap in Mediterranean coastline management.** [ENPI-CBCMED](#)  
*Worked with:* Dept. of Environmental Engineering, Democritus University of Thrace  
*Scientific Responsible:* Prof. Georgios Sylaios  
*Coordinator Partner:* Technion, Israel *URL:* <http://marenostrumproject.eu/>
- 02/2013 – 09/2014 **FIGARO: Flexible and Precise Irrigation Platform to Improve Farm Scale Water Productivity.** [FP7](#)  
*Worked with:* Dept. of Environmental Engineering, Democritus University of Thrace  
*Scientific Responsible:* Prof. Georgios Sylaios  
*Coordinator Partner:* Netafim, Israel *URL:* <http://www.figaro-irrigation.net/>
- 09/2010 – 10/2012 **GENESIS: Groundwater and Dependent Ecosystems: New Scientific and Technological Basis for Assessing Climate Change and Land-use Impacts on Groundwater.** [FP7](#)  
*Worked with:* Dept. of Environmental Engineering, Democritus University of Thrace  
*Scientific Responsible:* Prof. Konstantinos Tsagarakis  
*Coordinator Partner:* BIOFORSK, Norway *URL:* [www.bioforsk.no/genesis](http://www.bioforsk.no/genesis)

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## RESEARCH PAPERS IN ISI SCIENTIFIC JOURNALS

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1. 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.
2. **Pisinaras V**, Polychronis C, Gemitzi A, (2016) Intrinsic groundwater vulnerability determination at the aquifer scale: a methodology coupling travel time estimation and rating methods. *Environmental Earth Sciences*, 75(1): 1-12.
3. **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.
4. Panagopoulos A, Arampatzis G, Tziritis E, **Pisinaras V**, Herrmann F, Kunkel R, Wendland F, (2016) Assessment of climate change impact in the hydrological regime of River Pinios basin, central Greece. *Desalination and Water Treatment*, 57(5): 2256-2267.
5. 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.
6. **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.

7. **Pisinaras V**, Petalas C, Tsihrintzis VA, Karatzas GP, (2013) Integrated modeling as a decision-aiding tool for groundwater management in a Mediterranean agricultural watershed. *Hydrological Processes*, 27(14): 1973–1987.
8. Boskidis I, **Pisinaras V**, Petalas C, Tsihrintzis VA, (2012) Monitoring and modeling of two alluvial aquifers in lower Nestos river basin, Northern Greece. *Journal of Environmental Science and Health: Part A*, 47(12): 1849-1868.
9. Boskidis I, Gikas GD, **Pisinaras V**, Tsihrintzis VA, (2010) Spatial and temporal changes of water quality, and SWAT modeling of Vosvozis river basin, North Greece. *Journal of Environmental Science and Health: Part A*, 45(11): 1421-1440.
10. **Pisinaras V**, Petalas C, Gikas GD, Gemitzi A, Tsihrintzis VA, (2010) Hydrological and water quality modeling in a medium-sized basin using the Soil and Water Assessment Tool (SWAT). *Desalination*, 250: 274-286.
11. **Pisinaras V**, Tsihrintzis VA, Petalas C, Ouzounis K, (2010) Soil salinization in the agricultural lands of Rhodope District, northeastern Greece. *Environmental Monitoring and Assessment*, 166 (1-4), 79-94.
12. Gemitzi A, Petalas C, **Pisinaras V**, Tsihrintzis VA, (2009) Spatial prediction of nitrate pollution in groundwaters using neural networks and GIS: an application to South Rhodope aquifer (Thrace, Greece). *Hydrological Processes*, 23: 372–383.
13. Petalas C, **Pisinaras V**, Gemitzi A, Tsihrintzis VA, Ouzounis K, (2009) Current Conditions of Saltwater Intrusion in the Coastal Rhodope Aquifer System, Northeastern Greece. *Desalination*, 237: 22-41.
14. **Pisinaras V**, Petalas C, Gemitzi A, Tsihrintzis VA, (2007) Water quantity and quality monitoring of Kosynthos river, North Greece. *Global Nest Journal*, 9(3): 259-268.
15. **Pisinaras V**, Petalas C, Tsihrintzis VA, Zagana E, (2007) A groundwater flow model for water resources management in the Ismarida plain, North Greece. *Environmental Modeling and Assessment*, 12(2): 75-89.
16. Gemitzi A, Petalas C, Tsihrintzis VA, **Pisinaras V**, (2006) Assessment of groundwater vulnerability to pollution: a combination of GIS, fuzzy logic and decision making techniques. *Environmental Geology*, 49(5): 653-673.

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## OTHER INFORMATION

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- ✓ Reviewer in several acknowledged scientific journals (<https://publons.com/author/862235/vassilios-pisinaras#profile>)
- ✓ 230 citations according to SCOPUS (h-index 8) and 387 citations according to Google Scholar (h-index 10)
- ✓ Experience in design and composition of research proposals and economic management of research projects.
- ✓ Co-teaching of “Hydrogeology” and “Environmental Geology” courses during the academic year 2007-2008 in Dept. of Environmental Engineering, Democritus University of Thrace.
- ✓ Member of Technical Chamber of Greece, Hellenic Water Resources Management Committee and European Water Resources Association (E.W.R.A.)