

# **Konstantinos (Kostas) S. Voudouris**

Geologist-Mathematician

PhD Hydrogeologist

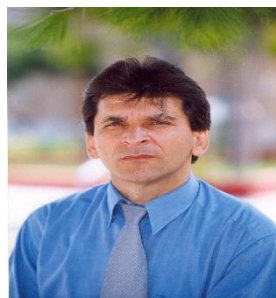
Professor of Hydrogeology at the Aristotle University of Thessaloniki,

Dept. of Geology, Faculty of Natural Sciences

Director of Engineering Geology and Hydrogeology

## **CURRICULUM VITAE**

**(CV)**



Thessaloniki, Greece

May 2022

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**BRIEF CURRICULUM VITAE (CV)**  
**of Professor Konstantinos Voudouris**

**PERSONAL INFORMATION**

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**Place of birth:** Korinthos, Greece

**Date of birth:** 21-7-1959

**Nationality:** Greek

**Communication: Email:** kvoudour@geo.auth.gr

**Tel.:** +302310998041, +306973533461

**Fax:** +302310998530

**Website:** <http://auth.academia.edu/KostasVoudouris>

**Scopus:** Author Search: **Voudouris**, Initials of first name: **K.S.**

Aristoteleion Panepistimion Thessalonikis

Link for Greek CV:

[http://www.geo.auth.gr/yliko/deps/docs/ggg/VOUDOURIS\\_CV\\_GR.pdf](http://www.geo.auth.gr/yliko/deps/docs/ggg/VOUDOURIS_CV_GR.pdf)

Link for English CV

[http://www.geo.auth.gr/yliko/deps/docs/ggg/VOUDOURIS\\_CV\\_EN.pdf](http://www.geo.auth.gr/yliko/deps/docs/ggg/VOUDOURIS_CV_EN.pdf)

Orcid Link

<https://orcid.org/0000-0002-5409-1740>

**Military obligations:** In Airforce (speciality: Radar, 1983-1985)

**Present post:** Konstantinos Voudouris, Associate Professor, Lab. of Engineering Geology & Hydrogeology, Aristotle University, Thessaloniki, GR54124, Greece

**STUDIES**

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**Undergraduate studies**

Bachelor Degree in **Geology**, University of Patras (1978-1982)

Bachelor Degree in **Mathematics**, University of Patras (1986-1994)

**Postgraduate studies**

Doctoral Degree in **Hydrogeology**, Department of Geology, University of Patras, Greece (1990-1994)

Postdoc studies, University of Patras (1999-2000)

**Distinctions:**

Foundation of State Scholarships (IKY) for the academic year 1990-1993 and 1999-2000

University of Patras (1989)

Guest Professor from University of Hubei, China (2019).

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## RESEARCH

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- 1990-1995 Doctoral Thesis (University of Patras)  
Parallel research activity at the Patras University
- 1997-1999 Researcher (National Technical University of Athens)
- 1999-2002 Postdoc Research (University of Patras)  
Parallel research activity at the Patras University
- 2003- 2008 Lecturer- Researcher at the Aristotle University of  
Thessaloniki, Department of Geology.
- 2008- 2014 Assistant Professor- Researcher at the Aristotle University of  
Thessaloniki, Department of Geology.
- 2014- 2019 Associate Professor- Researcher at the Aristotle University of  
Thessaloniki, Department of Geology.
- 2019- today Professor- Researcher at the Aristotle University of Thessaloniki  
Director of Lab. of Engineering Geology & Hydrogeology

### Research Projects

Participation in 39 (14 as Scientific Supervisor and Principal Researcher) European and National projects during the last years concerning, hydrogeological studies, water quality and water pollution, water supply issues, simulation of groundwater flow, vulnerability of aquifer systems, artificial recharge, etc.

## BOOKS

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- 1) **Environmental Hydrogeology** (460 pages, in Greek)
- 2) **Engineering Hydrogeology** (429 pages, in Greek)
- 3) **Exploitation and Management of Groundwater** (654 pages, in Greek)
- 4) **Water Quality: Monitoring and Assessment** (Eds K. Voudouris, D. Voutsas)
- 5) **Ecological water quality** (Eds K. Voudouris, D. Voutsas)

**PUBLICATIONS** (in scientific journals and proceedings of conferences)

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**Total: 208**

**PhD Thesis: 1**

**International Journals: 80**

**Special chapters: 9**

**Greek scientific journals: 10**

**Bulletin of Greek Geological Society: 13**

**International Conferences (abroad): 22**

**International Conferences in Greece: 37**

**National Greek Conferences: 36**

*Unique Author: 12*

*First author: 45*

*Second Author: 58*

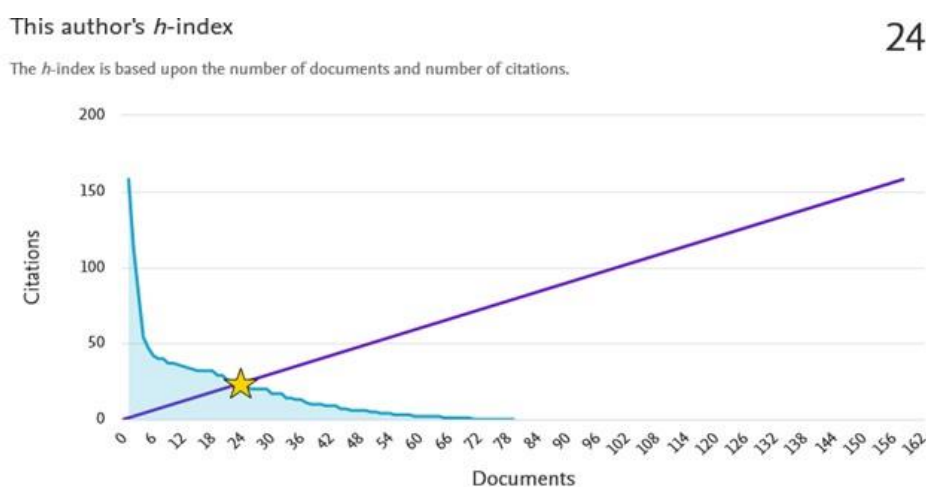
*Third or greater order: 89*

*Mean number of paper per year:  $\approx 7$*

## EVIDENCE OF ESTEEM- CITATIONS

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1500 citations (only from other authors) in my research work in international journals and conferences (Scopus), **h-index=24** (Fig. 1).



**Figure 1:** Diagram of h-index.

## TEACHING EXPERIENCE

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1993-1997: Secondary School (courses: Geology, Geography, Chemistry, Environmental Education).

1997-2002: Department of Geology, University of Patras (teaching in undergraduate courses)

2003-2008: **Lecturer** of Hydrogeology at the Aristotle University, Geological Department (AUPh)

### Undergraduate Teaching:

Exploitation and management of groundwater, Hydrogeology, Sanitary landfills, Topics in Geology, Drilling Techniques

### Postgraduate Teaching in 1 MSc program (Applied & Environmental Geology):

Special issues in Hydrogeology, Water Resources Management, Environmental education

2008-2014: **Assistant Professor** of Hydrogeology at the Aristotle University, Geological Department (AUPh)

2014- 2019: **Associate Professor** of Hydrogeology at the Aristotle University, Geological Department (AUPh)

2019- today: **Professor** of Hydrogeology at the Aristotle University, Geological Department (AUPh)

Undergraduate Teaching: Hydrogeology, Exploitation and Management of groundwater, Environmental Hydrogeology, Geothermics, Drilling Techniques

Post-Graduate Teaching in two (2) MSc programs of AUTH:

- ***Applied and Environmental Hydrogeology (Dept. of Geology)***: Special issues in Hydrogeology, Water Resources Management, Karst Hydrogeology, Groundwater Quality

- ***Ecological quality and water management at a river basin scale (Dept. of Biology, Geology and Civil Engineering)***: Special issues in Hydrogeology, Water Resources Management, Aquifer Systems, Hydrological balance, Groundwater Balance, Vulnerability assessment to groundwater pollution.

***Thesis supervision (period 2003-today)***

- Supervisor or co-supervisor of 154 undergraduate theses on topics of Hydrogeology, water quality, groundwater management, Geothermics, Environmental Hydrogeology.
- Supervisor or co-supervisor or member of the Examination Committee of 91 MSc thesis
- Supervisor of 6 PhD theses (three PhD theses were completed and supported).

## **REVIEWS**

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I have participated, since 2004 (lecturer), in reviewing papers in the following journals:

### **International Journals**

- ***Environment and Pollution*** (Canadian Center of Science and Education) (Editorial Board)
- ***European Water Journal*** (European Water Resources Association, EWRA) (Editorial Board)
- ***Aquatic Science & Technology*** (Editorial Board)
- ***Journal of Geography, Environment and Earth Science*** (Academic Editor)
- ***Bulletin of Geological Society of Greece*** (Editorial scientific board)
- ***Journal of Hydrology*** (Science Citation Index, SCI)
- ***Science of the Total Environment*** (SCI)
- ***Hydrogeology Journal*** (SCI)
- ***Environmental Earth Sciences*** (SCI)
- ***Journal of Environmental Management*** (SCI)
- ***Hydrological Sciences Journal*** (SCI)
- ***Water Resources Management*** (SCI)
- ***Environmental Science and Pollution Research*** (SCI)
- ***Journal of Environmental Monitoring & Assessment*** (SCI)
- ***Desalination*** (SCI)
- ***Fresenius Environmental Bulletin (Parlar Scientific Publications)*** (SCI)
- ***Agricultural Water Management*** (SCI)
- ***Universal Journal of Geoscience***
- ***Journal of Agricultural Science and Technology*** (Iran)
- ***Natural Resources Forum- A United Nations Sustainable Development Journal***
- ***Desalination and Water Treatment***
- ***Bollettino di Geofisica Teorica ed Applicata*** (Italy)
- ***Arabian Journal for Science and Engineering***
- ***British Journal of Environment and Climate Change***
- ***Water Science and Technology***
- ***International Journal of Water Resources and Environmental Engineering***
- ***Applied Water Science***
- ***Caspian Journal of Applied Sciences Research***
- ***Acque Sotteranee- Italian Journal of Groundwater***

- *Environmental Processes*
- *Management of Environmental Quality*
- *Geotechnical and Geological Engineering*

#### **Greeks Journals**

- *Mineral Wealth*
- *Hydrotechnika*, Journal of the Hellenic Hydrotechnical Association
- *Mining and Metallurgical Annals*
- *Technical Annals*
- *Geotechnical Scientific Issues*

#### **ADMINISTRATIVE WORK**

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##### *Participation in commissions of the Aristotle University:*

- Administration Council of UNESCO Centre Cat.2 on Integrated and Multidisciplinary Water Resources Management
- Member of General Assembly of the Geological Department for 10 academic years
- Member of Council of AUTH (one year)
- Commission of undergraduate studies
- Member of Environmental Council of AUTH (2008-2016)
- Commission of Integrated Environmental Management of AUTH
- Commission of statistical recording and educational work

#### **MEMBERSHIP OF PROFESSIONAL BODIES**

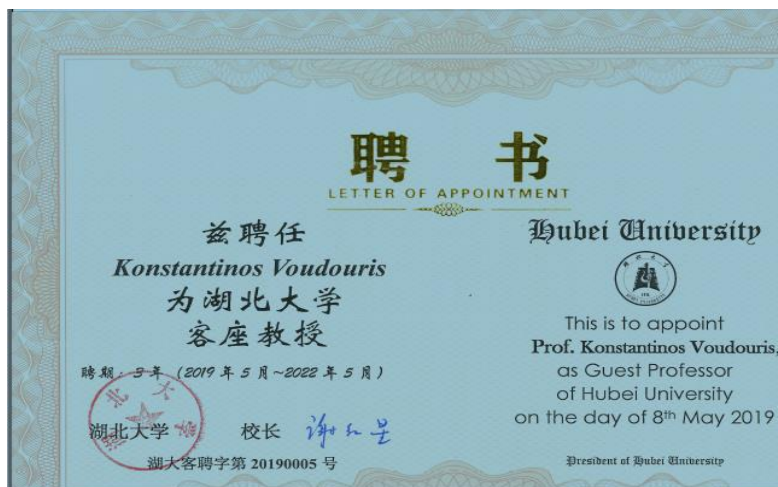
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- International Association of Hydrogeologists (IAH)
- Hellenic Association of Hydrogeology (President, 2016-today)
- European Water Resources Association (EWRA)
- Hellenic Hydrotechnical Association
- Geological Society of Greece
- Geotechnical chamber of Greece
- International Association of Mathematical Geosciences (IAMG)

#### **DISTINGUISHED GUEST**

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Guest Professor from University of Hubei, China (2019).



**Table 1:** Brief CV (Voudouris, K.S., Aristotle University of Thessaloniki).

|  |  |
|--|--|
| <b>Date and place of birth</b>           | 1959, Korinthos Greece   |
| <b>Education</b>                         | University of Patras, Greece<br>Diploma of <b>Geology</b> , Diploma of <b>Mathematics</b><br><b>PhD of Hydrogeology</b>  |
| <b>Address</b>                           | Tel: (+30) 2310998041<br>E-mail : <a href="mailto:kvoudour@geo.auth.gr">kvoudour@geo.auth.gr</a><br><a href="http://auth.academia.edu/KostasVoudouris">http://auth.academia.edu/KostasVoudouris</a>  |
| <b>Position</b>                          | <b>Professor</b> in Aristotle University, Thessaloniki, Greece<br>Department of Geology<br>Director of Laboratory of Engineering Geology & Hydrogeology  |
| <b>Main field of activity</b>            | Hydrogeology, Environmental Geology, Water Quality<br>Groundwater Management, Groundwater Pollution  |
| <b>Practical experience</b>              | 33 years of work on exploration, exploitation and protection of groundwater in the field of water supply, geo-environment, water quality, artificial recharge, groundwater vulnerability assessment, hydrological balance, etc.<br>Participation and guidance of many projects in Greece.<br>Cooperation with many European Universities and European institutes.  |
| <b>Scientific publications</b>           | <b>1. Books:</b><br>-Environmental Hydrogeology (460 pages, in Greek)<br>-Engineering Hydrogeology (429 pages, in Greek)<br>-Exploitation and Management of Groundwater (654 pages, in Greek)<br>-Water Quality-Monitoring and Assessment (Editor)<br>-Ecological Water Quality (Editor)<br><b>2. Papers:</b><br>208 scientific papers published in scientific journals and proceedings of national and international conferences. |
| <b>Membership of professional Bodies</b> | - International Association of Hydrogeologists (IAH)<br>- European Water Resources Association (EWRA)<br>- Hellenic Committee of Hydrogeology (President 2016-2021)<br>- Hellenic Hydrotechnical Association<br>- Geological Society of Greece<br>- Geotechnical chamber of Greece   |
| <b>Teaching experience</b>               | Dept. of Geology, Aristotle University of Thessaloniki<br><b>Undergraduate students:</b> Hydrogeology, Groundwater Exploitation & Management, Geothermics, Environmental Hydrogeology, Drilling Techniques<br><b>Postgraduate students:</b> Water Pollution, Karst Hydrogeology, Mathematical models, Geostatistics  |
| <b>Other Skills</b>                      | Computer literacy (Microsoft Word, Excel, Grapher, Surfer)<br>Statistical analysis (SPSS, STATISTICA).<br>Simulation of groundwater flow: MODFLOW<br>Pumping test- Hydrochemical analysis: AquiferTest - AquaChem  |



## ANALYTICAL CURRICULUM VIATE

### STUDIES

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#### 1. Undergraduate studies in the University of Patras

- In October of 1978, I began my studies in the *Department of Geology* at the University of Patras, after participating in the Greek National University Exams. I attended all courses and I took the Geology degree (very good) in October 1982.

In the last semester I completed my thesis on Hydrogeology entitled:

*Hydrogeological conditions of the wider area of Patras Industrial zone*

Under the supervision of Professor G. Kallergis.

- In October of 1986, I began my studies in the *Department of Mathematics* at the University of Patras. I attended all courses and I took the Mathematics degree (very good) in October 1994.

#### 2. Doctoral Thesis

In October 1989, I began my postgraduate studies after distinction of Foundation of State Scholarships (IKY) in the *Department of Geology* at the University of Patras.

My thesis topic was: *Hydrogeological conditions of the NWestern part of Achaia*

In May 1994, I supported my doctoral degree and I was awarded with the title of Doctor of University of Patras.

My research was supervised by Professor G. Kallergis

The innovative parts of thesis are:

- Geological regime
- Hydrological balance
- Aquifer systems -Hydraulic characteristics
- Groundwater quality
- Artificial Recharge
- Isotopic analysis -Determination of groundwater age
- Groundwater management

### SOFTWARE USE

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- Very good knowledge of the software tools for hydrochemical analysis (AQUACHEM) and pumping test analysis (AQUIFER TEST).

- Very good knowledge of the software tools for statistical analysis of hydrogeological data (SPSS, STATISTICA).

- MODFLOW package for groundwater flow simulation

Some of the aforementioned software is used in the course tutorials.

## CONFERENCES-CONGRESSES

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### *Period before the position of Lecturer*

- 1993                    2<sup>nd</sup> National Conference on Hydrogeology (Patras)  
                              Hellenic Association of Hydrogeology- **Organizing Committee**
- 1994                    7<sup>th</sup> Conference of Geological Society of Greece (Thessaloniki)
- 1994                    “Restoration and Protection of the Environment II”  
                              University of Patras & Stevens Institute of Technology (Patras)
- 1995                    6<sup>th</sup> Conf. of Hellenic Hydrotechnical Association (Thessaloniki).
- 1995                    3<sup>rd</sup> National Conference on Hydrogeology (Heraklion, Crete)  
                              Hellenic Association of Hydrogeology
- 1997                    7<sup>th</sup> Conference of Hellenic Hydrotechnical Association (Patras)
- 1997                    8<sup>th</sup> Conference of Geological Society of Greece (Patras)  
                              **Organizing Committee**
- 1999                    4<sup>th</sup> Conf. of Greek Committee of Water Resources Management (Volos)
- 1998                    4<sup>th</sup> National Conference on Hydrogeology (Nicosia, Cyprus)
- 1999                    International Conference “Renewable energy sources and tourism”  
                              (Athens)
- 2000                    8<sup>th</sup> Conference of Hellenic Hydrotechnical Association (Athens)
- 2002                    International Association of Mathematical Geology, IAMG (Berlin)
- 2002                    6<sup>th</sup> National Conference on Hydrogeology (Xanthi)  
                              **Scientific Committee**
- 2002                    1<sup>st</sup> Workshop of Hellenic Committee of Hydrogeology on Hard Rocks Hydrogeology.  
                              (11-13 June, Tinos Island).
- 2003                    9<sup>th</sup> Conference of Hellenic Hydrotechnical Association (Thessaloniki).

### *Lecturer*

- 2003                    XXX IAHR Congress “Water Engineering and Research in a Learning  
                              Society” (24-29 August, Thessaloniki).
- 2004                    8<sup>th</sup> International Conference of Geological Society of Greece (Thessaloniki).
- 2004                    18<sup>th</sup> Salt Water Intrusion Meeting (Cartagena, Spain).
- 2005                    5<sup>th</sup> Conf. of Greek Committee of Water Resources Management (Xanthi).
- 2005                    5<sup>th</sup> International Symposium on Management of Aquifer Recharge (Berlin).
- 2005                    7<sup>th</sup> International Conference on Hydrogeology (Athens).

- 2005 2<sup>nd</sup> Environmental Conference of Macedonia (Thessaloniki).
- 2006 “Agriculture and Water Recourses”. Hellenic Hydrotechnical Association (Thessaloniki).
- 2006 Wastewater Treatment Plant at small scale (Portaria, Pilion).
- 2006 Groundwater in Mediterranean countries. 24-28 April 2006, Instituto Geologico y Minero de España (Malaga, Spain).
- 2006 1<sup>o</sup> International Joint Salt Water Intrusion Conference SWIM-SWICA, (Chia, Cagliari, Italy).
- 2006 AQUA2006, 2<sup>nd</sup> International Conference of Water Science and Technology- Integrated management of water resources (Athens).
- 2006 10<sup>th</sup> Conference of Hellenic Hydrotechnical Association (Xanthi).
- 2007 International Conference “Water Pollution in natural Porous media at different scales. Assessment of fate, impact and indicators”. (11-14 April, Barcelona, Spain).
- 2007 11<sup>th</sup> International Congress of the Geological Society of Greece. Athens.
- 2007 International Scientific Conference “Modern Management of Mine Producing, Geology and Environmental Protection (SGEM 2007)”. (Varna, Bulgaria).
- 2007 Sustainable management of water resources by automated real-time monitoring. Workshop of the FP6 EU Project (Thessaloniki).

***Assistant Professor***

- 2008 3<sup>rd</sup> Environmental Conference of Macedonia (Thessaloniki).
- 2008 Conference of Geological Society of Greece and Municipality of Korinthos «Earth and Sea of Korinthia: Geology-Seismology-Environment» (Korinthos)  
**President of the Organizing committee**
- 2008 8<sup>th</sup> International Conference on Hydrogeology (Athens).
- 2009 Common Conference of Hellenic Hydrotechnical Association and Greek Committee of Water Resources Management (Volos). **Scientific Committee**
- 2009 Water policy 2009: “Water as a vulnerable and exhaustible resource”. International Conference (Prague).
- 2009 Climatic Change-Sustainable development- renewable energy sources. Environmental Council of AUTH (Thessaloniki)  
**Organizing and Scientific Committee**
- 2010 12<sup>th</sup> International Congress of the Geological Society of Greece (Patras).
- 2010 XIX International Congress of the Carpathian Balkan Geological Association  
**Organizing Committee**

- 2011 4<sup>th</sup> Environmental Conference of Macedonia (Thessaloniki).
- 2011 9<sup>th</sup> International Conference on Hydrogeology (Kalavrita)  
**Scientific Committee**
- 2012 UNESCO-IHP Expert meeting on “Assessment of risk and uncertainty related to coastal aquifers management in the Mediterranean” (Thessaloniki)
- 2012 Protection and Restoration of the Environment XI (July 2012, Thessaloniki).  
**Organizing Committee**
- 2013 Meeting Ημερίδα «Water Technologies in ancient Greece». KEODY-AUTH (Thessaloniki). **Organizing Committee**
- 2013 13<sup>th</sup> International Congress of the Geological Society of Greece (Chania).

*Associate Professor*

- 2014 10<sup>th</sup> International Conference on Hydrogeology (Thessaloniki).  
Hydrogeology and groundwater-dependent ecosystems  
**President of the Organizing Committee**
- 2014 Regional Symposium on Water, Wastewater and Environment: Traditions and Culture. March 2014, Patras. **Scientific Committee**
- 2015 9<sup>th</sup> World Congress “Water Resources Management in a Changing World: Challenges and Opportunities”. European Water Resources Association. Istanbul, Turkey, 10-13 June, 2015.
- 2015 AQUA 2015, “Hydrogeology: Back to the future”. 42<sup>nd</sup> Congress, International Association of Hydrogeologists. Rome, Italy, September 13<sup>th</sup>-18<sup>th</sup>.
- 2015 2<sup>nd</sup> IWA International Workshop on Evolution of Qanats and Relevant Hydraulic Technologies, 8-10 November 2015, Yazd, Iran. **Scientific Committee**
- 2015 9<sup>th</sup> Conference of Hellenic Society of Agricultural Engineers, Thessaloniki, 8-9 October.
- 2015 3<sup>rd</sup> Common Conference of the Hellenic Hydrotechnical Association and Hellenic Committee for Water Resources Management, Athens, 10-12 December. **Scientific Committee**
- 2016 14<sup>th</sup> International Congress of the Geological Society of Greece. 25-27 May 2016, Thessaloniki
- 2016 Geothermics and its contribution to the development of Greece. 28 May 2016, Thessaloniki. **President of the Organizing Committee**
- 2016 43<sup>rd</sup> International Congress. International Association of Hydrogeologists. September 25<sup>th</sup>-28<sup>th</sup>, 2016. Montpellier, France.
- 2017 11<sup>th</sup> International Conference on Hydrogeology (Athens).  
**Organizing Committee**
- 2018 *Eurokarst* 2018, Besançon France, 2-6 July.

## **Professor**

- 2019 UNESCO: The first Regional Water Family symposium on **Water Equity in SE Europe and the Mediterranean**. 28-29 March, Venice, Italy.
- 2019 International Conference on **Water and Civilization**: Exploration of Water History in the Horizon of the Community of Shared Future for Mankind. Co-organised by Hubei University και Aristotle University, 9-13 May 2019.
- 2019 4<sup>th</sup> IAH (International Association of Hydrogeologists) -CEG (Central European Group) Conference on “**Towards sustainable management of groundwater resources**”. Donji Milanovac, Serbia, 19-10 June 2019.
- 2019 2<sup>nd</sup> International Conference on **Natural Hazards & Infrastructure** (ICONHIC 2019) 23-26 June, 2019, Chania, Greece.
- 2019 5<sup>th</sup> IWA International Symposium on **Water and Wastewater Technologies in Ancient Civilizations**: “Evolution of Technologies from Prehistory to Modern Times”, Dead Sea, Jordan, 11-13 September 2019.
- 2019 International Earth Science Colloquium on the Aegean Region (IESCA) 7-11 October 2019, Dokuz Eylül University, Izmir, Turkey.
- 2020 International Water Resources Association (IWRA). Online Conference “Addressing Groundwater Resilience under Climate Change”, 29-30 October 2020.
- 2020 “Climate change and the European water dimension - Enhancing resilience”. **Virtual conference**, November 4-5, 2020. Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. Federal Republic of Germany.
- 2020 “From the myths of Hercules to the reality of climate change”. **Webinar** UNESCO Category II Centre on Integrated and Multidisciplinary Water Resources Management (CIMWRM). Thessaloniki, 26-27 November 2020.
- 2021 Workshop on Water, Wastewater and Environment: Technology, Traditions and Culture. Hellenic Open University, 22 Μαρτίου (**webinar**).
- 2021 EGU General Assembly 2021. Co-convenor: Session HS5.2.2 – Groundwater resources management: reconciling demand, high quality resources and sustainability, 27 April 2021 (**webinar**).
- 2021 Characterization and Engineering of Karst Aquifers (CEKA). Centre for Karst Hydrogeology, Department of Hydrogeology, University of Belgrade –Faculty of Mining and Geology, Belgrade **Online webinar**, 1-7 June 2021.
- 2021 International Conference on Transboundary Aquifers (ISARM 2021), **Online webinar**, 6-8 December 2021, Paris, France.
- 2022 12<sup>th</sup> International Hydrogeological Conference of Greece and Cyprus, 20-22 March 2022, Nicosia, Cyprus. President of the Scientific Committee.
- 2022 “Emerging water challenges since COVID-19”, **Online Webinar** 6-8 April 2022

**Visitor Professor in the frame of scientific exchange- sabbatical**

- **Lotz (Poland)** (period 01/10/2009- 10/10/2009).
- **Bratislava (Slovakia)** (period 02/12/2009- 10/12/2009).
- **Avignon (France), Université d'Avignon et des Pays de Vaucluse, Département d'Hydrogéologie** (period 01/09/2016- 31/12/2016).

## RESEARCH PROJECTS

| a/a | Research project title  | University                              | Funding source   | Participation | Topic           | Period    |
|-----|---|---|--|---------------|-----------------|-----------|
| 1   | Water resources management of wider area of Patras                                    | Patras                                  | Municipal Enterprise for water supply and drainage of Patras | Investigator  | Water resources | 1991-1993 |
| 2   | Impacts on aquifer system of Piros river basin from pumping via borehole              | Patras                                  | Leader Industry  | Investigator  | Hydrogeology    | 1993      |
| 3   | Hydrogeological Conditions of Industrial area of Patras                               | Patras                                  | Athenian Brewery   | Investigator  | Hydrogeology    | 1994-1995 |
| 4   | Investigation to apply artificial recharge in the coastal aquifer system of Korinthia | National Technical University of Athens | Prefecture of Korinthia                                      | Investigator  | Hydrogeology    | 1997-1999 |
| 5   | Hydrogeological investigation of the wider area of Moschochori, Fthiotida             | Patras                                  | Athenian Brewery   | Investigator  | Hydrogeology    | 1998      |
| 6   | Hydrogeological investigation of Malia area   | Patras                                  | Municipality of Malia  |               |                 | 2000      |
| 7   | Hydrogeological investigation of Chersonisos area                                     | Patras                                  | Municipality of Chersonisos                                  | Investigator  | Hydrogeology    | 2001-2002 |
| 8   | Hydrological balance and water management of the karstic aquifer of Giouchta, Creta   | Patras                                  | Municipality of Archanes                                     | Investigator  | Hydrogeology    | 2002      |

|    |   |                               |  |                       |                                     |           |
|----|---|-------------------------------|--|-----------------------|-------------------------------------|-----------|
| 9  | Investigation to address water problems in Soligia area   | National Technical University | Municipalities of Soligia, Tenea, Saronikou                  | Investigator          | Water resources                     | 2003-2004 |
| 10 | Hydrological balance of the Aposelemis river basin  | AUTh                          | Municipality of Chersonisos                                  | Scientific Supervisor | Hydrology                           | 2005      |
| 11 | Possibilities of artificial recharge application in Larisa prefecture   | AUTh                          | Municipal Enterprise for water supply and drainage of Larisa | Investigator          | Hydrogeology-<br>Applied<br>Geology | 2005-2006 |
| 12 | Investigation of the possibilities to construct a dam in Elasona area, Larisa   | AUTh                          | Municipal Enterprise for water supply and drainage of Larisa | Investigator          | Hydrogeology                        | 2005-2006 |
| 13 | Development and utilization of vulnerability maps for the monitoring and management of groundwater in the ARCHI-MED area (WATER-MAP). Case study: Western Macedonia | AUTh                          | EU COMMUNITY INITIATIVE PROGRAMME, INTERREG III B ARCHIMED   | Principal Researcher  | Hydrogeology                        | 2006-2008 |
| 14 | Geophysical methods to study the groundwater flow during artificial recharge via borehole   | AUTh                          | Water supply and Sewage Company                              | Investigator          | Hydrogeology                        | 2005-2006 |
| 15 | Hydrogeological investigation of wider area of Peraia   | AUTh                          | Municipal Enterprise for water supply and drainage of Peraia | Scientific Supervisor | Hydrogeology                        | 2008-2009 |
| 16 | Hydrochemical and Hydrogeological investigation of Volos area   | AUTh                          | Municipal Enterprise for water supply and drainage of Volos  | Investigator          | Water quality-<br>Hydrogeology      | 2008-2013 |



|    |   |      |   |                       |                                     |           |
|----|---|------|---|-----------------------|-------------------------------------|-----------|
| 17 | Feasibility study for artificial recharge of the Kokkinochoria aquifer (Cyprus), using treated waste water      | AUTh | Cyprian Democracy, Water Development Department | Scientific Supervisor | Hydrogeology                        | 2008-2009 |
| 18 | Hydrotechnical investigation of geological suitability of the site of new cemetery in Korinthos                 | AUTh | Municipality of Korinthos                       | Scientific Supervisor | Hydrogeology                        | 2009-2010 |
| 19 | Investigating the causes of ruptures in Anargiri area, Florina  | AUTh | Municipality of Aetos                           | Investigator          | Hydrogeology                        | 2008-2009 |
| 20 | Researching the suitability of the "Vartos" area as a place for the construction of a sanitary landfill         | AUTh | Association for Waste Products Management       | Investigator          | Hydrogeology                        | 2009      |
| 21 | Simulation of groundwater flow in Kiti aquifer, Cyprus  | AUTh | Atlantis company, Cyprus                        | Scientific Supervisor | Hydrogeology                        | 2008-2009 |
| 22 | Investigation on the rupture phenomena on the surface of Mavropigi area   | AUTh | Municipality of Eordaia                         | Investigator          | Hydrogeology, Technical Geology     | 2010      |
| 23 | Transnational integrated management of water resources in agriculture for European emergency control (EU WATER) | AUTh | European Union                                  | Investigator          | Hydrogeology, Aquifer Vulnerability | 2010-2012 |
| 24 | Geological, Hydrogeological and Palaeontological investigation in Mesopotamia area, Kastoria                    | AUTh | Municipality of Kastoria                        | Investigator          | Hydrogeology                        | 2009-2010 |
| 25 | Suitability criteria in new cemetery planning, and their investigation at the new cemetery in Kokkari, Samos    | AUTh | Municipality of Samos                           | Scientific Supervisor | Hydrogeology                        | 2011      |

|    |   |      |  |                                    |                             |           |
|----|---|------|--|------------------------------------|-----------------------------|-----------|
| 26 | Water resources management in the wider area of municipality of Thermaikos  | AUTh | Municipal Enterprise for water supply and drainage of Thermaikos | Scientific Supervisor              | Hydrogeology                | 2012-2014 |
| 27 | COST Action ES1201: Networking Lake Observatories in Europe (NETLAKE)   | AUTh | European Union   | Investigator, Management Committee | Hydrology-Data analysis     | 2010-2012 |
| 28 | Sensitivity assessment of TAP route to erosion phenomena and floods   | AUTh | EON New Build & Technology GmbH                                  | Scientific Supervisor              | Hydrogeology-Hydrology      | 2013      |
| 29 | Control of influent and effluent groundwater volume in inactive landfill of Derveni   | AUTh | Local Authority of Thessaloniki                                  | Investigator                       | Hydrogeology-Hydrology      | 2014      |
| 30 | Localization and identification of new therapeutic springs using hydrogeological and remote sensing techniques  | AUTh | Hellenic Association of Municipalities with Thermal Springs      | Scientific Supervisor              | Hydrogeology-Geothermics    | 2015-2016 |
| 31 | Identification and distinction of aquifer systems using hydrogeological and hydrochemical data in mountainous Korinthia   | AUTh | NATURA Bottling Co   | Scientific Supervisor              | Hydrogeology-Hydrochemistry | 2015-2016 |
| 32 | Investigation of the spring operation mechanism of Kivotos Grevena and determination of protection zones  | AUTh | Municipality of Grevena  | Investigator                       | Environmental Hydrogeology  | 2015      |
| 33 | Hydrogeological-Hydrochemical research and investigation of the conceptual model of the "Kokkino Nero" healing spring   | AUTh | Municipality of Agia   | Investigator                       | Hydrogeology-Hydrochemistry | 2015      |
| 34 | Hydrological assessment for the watercourses for the detail engineering services for section 2 and 3 Greece of the EPC Onshore Pipeline Construction of the Trans Adriatic Pipeline (TAP) | AUTh | C&M Engineering A.E.   | Scientific Supervisor              | Hydrology-Hydrogeology      | 2016-2017 |
| 35 | Hydrogeological investigation and delineation of protection zones in the broader area of the Vikos Company boreholes  | AUTh | VIKOS Company  | Scientific Supervisor              | Hydrogeology-Hydrochemistry | 2016-2022 |

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|----|--|------|---------------------------------|-----------------------------------|-----------------------------|-----------|
| 36 | COST Action CA19120: WATER isotopeS in the critical zONe: from groundwater recharge to plant transpiration" (WATSON).                | AUth | European Union                  | Management Committee              | Hydrogeology-Hydrochemistry | 2020-2024 |
| 37 | Hydrogeological research to investigate the origin of chromium in groundwater of the Spercheios basin.                               | AUth | Athenian Brewery                | Scientific Supervisor             | Hydrogeology-Hydrochemistry | 2018-2019 |
| 38 | Preliminary hydrological survey at EastMed pipeline crossing points in Peloponnese and Western Greece.                               | AUTh | C&M Engineering Company, Athens | Scientific Supervisor             | Hydrology                   | 2021-2022 |
| 39 | Optimization of hydrological simulation at basin scale under climate conditions with the use of spatial and spatio-temporal methods. | AUTh | Greece and European Union       | Scientific Supervisor, Researcher | Hydrological Simulation     | 2020-2022 |

## TEACHING EXPERIENCE

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1993-1997: Secondary School (courses: Geology, Geography, Chemistry, Environmental Education).

1997-2002: Department of Geology, University of Patras (teaching in undergraduate courses)

2003-2008: **Lecturer** of Hydrogeology at the Aristotle University, Geological Department (AUTH)

### Undergraduate Teaching:

- 1) Exploitation and management of groundwater (GGG 763Y)
- 2) Hydrogeology (GGG 646Y)
- 3) Sanitary landfills (GGG 887E)
- 4) Topics in Geology (GGG 879E)
- 5) Drilling Techniques (GGG 875E)

### Postgraduate Teaching in MSc program (Applied & Environmental Geology):

- 1) Special issues in Hydrogeology (Water pollution)
- 2) Water Resources Management (Mathematical models)
- 3) Environmental education

2008-today: **Assistant, Associate Professor** and **Professor** of Hydrogeology at the Aristotle University, Geological Department (AUTH)

### Undergraduate Teaching:

#### **1) Hydrogeology (GGG 646Y)**

Lectures: Surface Hydrology, Hydrological balance, Groundwater Hydrology, Properties of Aquifers, Groundwater flow, Piezometric maps, Karst Hydrogeology, Springs

Tutorials (3 teaching groups): 9-10 series of tutorials are given.

Number of students: 70-90

Field work: A field trip is executed

#### **2) Exploitation and management of groundwater (GGG 763Y)**

Lectures: Pumping test analysis, Calculation of hydraulic parameters, Natural and Artificial recharge of aquifers, Coastal aquifer systems, Groundwater balance, Groundwater reserves, Economic data, Groundwater management, Groundwater resources in Greece

Tutorials (3 teaching groups): 9-10 series of tutorials are given.

Number of students: 45-55

Field work: A field trip is executed

Course website: <http://www.geo.auth.gr/courses/ggg/ggg763y/>

#### **3) Environmental Hydrogeology (GGG 887E)**

Lectures: Water quality, Interaction between groundwater and environment, Pollution sources, Sanitary landfills (operation, selection site criteria), Aquifer vulnerability assessment, Protection zones, Disposal of liquid wastes.

Number of students: 35-40

Field work: A field trip is executed

Course website: <http://www.geo.auth.gr/courses/ggg/ggg887e/>

#### **4) Geothermics (GGG 882E)**

Lectures: Internal earth heat, heat flow, Geothermal energy and potential, Geothermal fields, Geothermal energy of high-medium-low enthalpy, Methodology of geothermal exploitation,

Application of geothermal energy, Main geothermal fields in Greece

Number of students: 60-70

Field work: A field trip is executed

#### **5) *Drilling Techniques (GGG 875E)***

The course is taught together with Lecturer V. Marinos

Lectures: Types of boreholes, Shallow and deep exploration boreholes, Drilling technology and procedure, Borehole equipment, Completion, Well development, Logging

Number of students: 50-60

Field work: A field trip is executed

Course website: <http://www.geo.auth.gr/courses/ggg/ggg875e/>

Post-Graduate Teaching in two (2) MSc programs of AUTH:

**- *Applied and Environmental Geology (Dept. of Geology)***

- 1) Special issues in Hydrogeology (Water pollution)
- 2) Water Resources Management (Mathematical models)
- 3) Geostatistics

**- *Ecological quality and water management at a river basin scale (Dept. of Biology, Geology and Civil Engineering):***

- 1) Special issues in Hydrogeology (Water quality and pollution)
- 2) Water Resources Management (Mathematical models)
- 3) Aquifer Systems, Hydrological balance, Groundwater Balance, Vulnerability assessment to groundwater pollution.

***Planning and carrying out of field trips in undergraduate and graduate courses***

- 1) 4-day field trip in the frame of undergraduate courses “Hydrogeology- Exploitation & Management of groundwater” (until 2009): Topics: Karst aquifers, springs, dams, coastal aquifers.
- 2) 1-day field work of the undergraduate course “Hydrogeology”: topics: Field measurements (groundwater level, surface water flow, water quality).
- 3) 1-day field work of the undergraduate course “Exploitation and Management of groundwater” Topic: Pumping test
- 4) 1-day field work of the undergraduate course “Drilling Techniques”
- 5) 1-day field work of the undergraduate course “Sanitary landfills”.
- 6) 1-day field work of the undergraduate course “Geothermics”: topics: Thermal springs, applications of geothermal energy).
- 7) 1-day field work of the graduate course “Special Issues in Hydrogeology”

**SUPERVISION OF UNDERGRADUATE AND GRADUATE THESIS (period 2003-today)**

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- Supervisor or co-supervisor of 104 undergraduate Theses on topics of Hydrogeology, Water quality, Groundwater management, Geothermics, Environmental Hydrogeology, Drilling Techniques.
  - Supervisor or co-supervisor or member of examination committee of 34 MSc Theses
  - Supervisor of 7 PhD Theses (three PhD Theses were completed and supported).
  - Member of examination committee of 22 PhD Thesis.

As a supervising professor, I am responsible for the assignment of the topic, the guidance but also the development of initiative of the student themselves.

## PUBLICATIONS

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### *Publication list*

The published articles of the candidate in chronological order are as follows (the PhD Thesis is referred as first):

### *Period before the position of Lecturer*

- 1) **VOUDOURIS, K.**, (1995): Hydrogeological conditions in NWestern part of Achaia Prefecture. PhD Thesis. Dept. of Geology, University of Patras, p. 237.
- 2) **VOUDOURIS, K.**, DANOPOULOS, Ch. (1993): Program for assessment of evapotranspiration and water excess based on Thornthwaite-Mather's method (1955). *Geotechnical Scientific Issues, Vol. 4, No 4, 78-84.*
- 3) **VOUDOURIS, K.**, KRESTENITIS, G., DIAMANTOPOULOU, P., DASKALAKI, P., (1993): Hydrogeological and Hydrochemical conditions of the Piros river basin, Achaia (NW Peloponnesus, Greece). Proc. of 2<sup>nd</sup> Hydrogeological Conference, Patras, Vol. A', 299-310.
- 4) **VOUDOURIS, K.**, LAMBRAKIS, N., (1993): Statistical characteristics of precipitation in Western Greece. Proc. of 2<sup>nd</sup> Hydrogeological Conference, Patras, Vol. A', 33-41.
- 5) **VOUDOURIS, K.**, LAMBRAKIS, N., TINIAKOS, L. (1994): Fluctuations of water balance in Achaia area (NW Peloponnesus, Greece) and impact on groundwater quality. Proc. of International Conference "Restoration and Protection of the Environment II". August 1994, Patras, 140-147.
- 6) TINIAKOS, L., LAMBRAKIS, N., **VOUDOURIS, K.** (1994): Hydrogeology- Hydrochemistry of the Agia swamp (Patras area) and its relevance as a water resource. Proc. of International Conference "Restoration and Protection of the Environment II". August 1994, Patras, 238-246.
- 7) **VOUDOURIS, K.**, FLEET, M. (1995): Hydrochemical- isotopic analysis of groundwater in Patras industrial area. Proc. of 3<sup>rd</sup> Hydrogeological Conference, Heraklion, 345-355.
- 8) **VOUDOURIS, K.**, LAMBRAKIS, KALLERGIS, G. (1995): Hydrogeological investigation and hydraulic parameters of Plio-Pleistocene sediments of wider area of Patras. Proc. of 3<sup>rd</sup> Hydrogeological Conference, Heraklion, 199-211.
- 9) FLEET, M., **K. VOUDOURIS, K.**, (1995): Artificial recharge experiment via borehole in Plio-Pleistocene sediments of Patras Industrial zone. Proc. of 6<sup>th</sup> Panellenic Conference of the Hellenic Hydrotechnical Association, Thessaloniki, 74-83.
- 10) TINIAKOS, L., LAMBRAKIS, N., DASKALAKI, P., **VOUDOURIS, K.** (1996): Hydrogeological regime and environmental consideration of the coastal karstic spring Kryoneri (Messologi district, W. Greece). Proc. of International Conference "Restoration and Protection of the Environment III", August 1996, Xania, 40-47.
- 11) DASKALAKI, P., **VOUDOURIS, K.**, (1996): Hydrochemistry of the Evros river water: Factor analysis. Proc. 2<sup>nd</sup> Panellenic Conference. Geotechnical chamber of Greece, Larisa. Vol. B', 1293-1305.
- 12) LAMBRAKIS, N., **VOUDOURIS, K.**, TINIAKOS, L., KALLERGIS, G. (1997): Impacts of simultaneous action of drought and overpumping on Quaternary aquifers of Glafkos basin (Patras region, western Greece). *Environmental Geology, 29 (3/4), 209-216.*
- 13) **VOUDOURIS, K.**, LAMBRAKIS, N., PAPANTHEODOROU, G., DASKALAKI, P. (1997): An application of Factor Analysis for the study of the Hydrogeological conditions in Plio-Pleistocene aquifers of NW Achaia (NW Peloponnesus, Greece). *Mathematical Geology, Vol. 29, N° 1, 43-59.*
- 14) DASKALAKI, P., **VOUDOURIS, K.** (1997): Hydrochemistry of runoff waters in Epirus, NW Greece. R-mode factor analysis of data. Proc. Intern. Symposium on Engineering Geology and the Environment. Vol. 2, 1751-1756.

- 15) DIAMANTOPOULOU, P., VOUDOURIS, K., DASKALAKI, P., FLEET, M. (1997): Hydraulic parameters and water table fluctuation of the Patras industrial area aquifer. Proc. of 7<sup>th</sup> Panellenic Conference of Hellenic Hydrotechnical Association, Patras, 268-275.
- 16) VOUDOURIS, K., LAMBRAKIS, N., TINIAKOS, L., KALLERGIS, G. (1997): Contribution to the study of the water balance in the Patras area. Proc. of 7<sup>th</sup> Panellenic Conference of Hellenic Hydrotechnical Association, Patras, 49-58.
- 17) VOUDOURIS, K., PAPADOPOULOS, K., BOULOUKAKIS, H., KIROUSIS, J. (1997): Distribution of rainfall and hydrological balance in Heraklion prefecture, Crete island. Proc. of 3<sup>rd</sup> Panellenic Conference "Water resources management in island and coastal areas". Hellenic Committee of water resources management, Siros, 5-11.
- 18) BOULOUKAKIS, H., VOUDOURIS, K. (1997): Evaluation of pumping tests in platy limestone (Plattenkalk) of Heraklion prefecture, Crete island. Proc. of 4<sup>th</sup> Hydrogeological Conference, Thessaloniki, 324-336.
- 19) VOUDOURIS, K., PAPADOPOULOS, K. (1998): Quantitative analysis of heavy rainfall (January, 12; 1997) in Corinth region (Greece). Proc. of 8<sup>th</sup> International Conference of Geological Society of Greece, Patras. Vol. XXXII, No 4, 33-41.
- 20) DASKALAKI, P., VOUDOURIS, K., DIAMANTOPOULOU, P. (1998): Hydrochemical study of North Peloponnesus Quaternary and Plio-Pleistocene aquifers. Proc. of International Conference «Restoration and Protection of the Environment IV», July 1998, Sani, Halkidiki. Vol. I, 109-116.
- 21) VOUDOURIS, K., FRAGOS, S. (1999): Application of integrated parametric model for water resources management in NW Achaia. Proc. of 4<sup>th</sup> National Conference "Water resources management in vulnerable areas of Greece". Hellenic Committee for water resources management, Volos, issue B, 3-10.
- 22) VOUDOURIS, K., (1999): Rainfall spatial distribution in North Peloponnesus. Proc. of 5<sup>th</sup> Hydrogeological Conference, Nicosia, Cyprus, 245-254.
- 23) MANDILARAS, D., VOUDOURIS, K., LAMBRAKIS, N. (1999): Quality and groundwater level fluctuation in alluvial aquifer of Glafkos river basin (NW Achaia). Proc. of 5<sup>th</sup> Hydrogeological Conference, Nicosia, Cyprus, 407-422.
- 24) KOUMANTAKIS, J. PANAGOPOULOS, A., STAVROPOULOS, X., VOUDOURIS, K., (1999): Application of artificial recharge in coastal aquifer system of the northern part of Korinthia. Proc. of 5<sup>th</sup> Hydrogeological Conference, Nicosia, Cyprus, 65-80.
- 25) VOUDOURIS, K., PANAGOPOULOS, A., KOUMANTAKIS, J. (2000): Multivariate Statistical analysis in the assessment of Hydrochemistry of the Northern Korinthia Prefecture alluvial aquifer system (Peloponnesus, Greece). *Natural Resources Research, Vol. 9, No 2, 135-146.*
- 26) LAMBRAKIS, N., TINIAKOS, L., VOUDOURIS, K., KALLERGIS, G. (2000): Hydrogeologische Untersuchungen auf der Insel Serifos zur Beschaffenheit der granodioritischen Wässer. *Beiträge zur Hydrogeologie 51, Graz, 95-110.*
- 27) STAMATIS, G., VOUDOURIS, K., (2000): Delineation of protection zones according to hydrogeological criteria: the case study of Loutraki alluvial aquifer. *Mineral Wealth 116, 13-36.*
- 28) VOUDOURIS, K., PANAGOPOULOS, A., DANIL, D. (2000): Implications to surface water quality of Corinth's Prefecture from anthropogenic activities. Proc. of International Conference «Restoration and Protection of the Environment V». Thasos. Vol. I, 235-242.
- 29) VOUDOURIS, K., BOHLMMEIJER, H.R. (2000): Hydraulic parameters and hydrochemical characteristics of the aquifer from one part of Sperchios basin. Proc. of 8<sup>th</sup> Panellenic Conference of Hellenic Hydrotechnical Association, Athens, 351-358.
- 30) STAMATIS, G., VOUDOURIS, K., KAREFILAKIS, Th. (2001): Groundwater pollution by heavy metals in historical and mineral area of Lavrio (Attica, Greece). *Water, Air and Soil Pollution 128, 61-83.*

- 31) ZELILIDIS, A., AVRAMIDIS, P., VOUDOURIS, K., & POULIMENOS, G. (2001):** The influence of the Pliocene and Pleistocene depositional environments evolution on the hydrogeological conditions of the Selinous river in Egio area, N. Peloponnesus. *Mineral Wealth 118*, 21-32.
- 32) ZELILIDIS, A., AVRAMIDIS, P., VOUDOURIS, K., (2001):** Hydrogeological conditions in relation to the Pindos foreland evolution, Tritea area, NW Peloponnesus. *Mining and Metallurgical Annals, Vol. 11, No 1-2*, 35-52.
- 33) HIONIDI, M., PANAGOPOULOS, A., KOUMANTAKIS, J., VOUDOURIS, K. (2001):** Groundwater quality considerations related to artificial recharge to the aquifer of the Korinthos Prefecture, Greece. Proc. of 3<sup>rd</sup> International Conference on Groundwater Quality: Natural and enhanced restoration of groundwater pollution. Sheffield, U.K. *IAHS publ. No 275*, 85-90.
- 34) PANAGOPOULOS, A., VOUDOURIS, K., KOUMANTAKIS, J., HIONIDI, M. (2001):** Groundwater evolution of the Northern Korinthia region coastal aquifer system, as indicated by Hydrochemistry. Proc. of 9<sup>th</sup> International Conference of Geological Society of Greece, Athens. Vol. XXXIV/5, 1991-1997.
- 35) MANDILARAS, D., VOUDOURIS, K., (2001):** The groundwater balance and water quality of the alluvial aquifer of Glafkos Basin, Achaia, Greece. Proc. of 9<sup>th</sup> International Conference of Geological Society of Greece, Athens. Vol. XXXIV/5, 1827-1834.
- 36) VOUDOURIS, K. (2002):** Time series analysis using ARIMA models of the groundwater table in Patras industrial area aquifer system (NW Peloponnesus, Greece). Proc. 8<sup>th</sup> Annual Conference of the International Association for Mathematical Geology, Berlin, Germany. Vol. 1, 335-340.
- 37) PANAGOPOULOS, A., VOUDOURIS, K., HIONIDI, M., KOUMANTAKIS, J. (2002):** Irrational water resources management impacts on the coastal aquifer system of Korinthia. Proc. of International Conference «Restoration and Protection of the Environment V», July 2002, Skiathos. Vol. I, 419-426.
- 38) VOUDOURIS, K., HIONIDI, M., PANAGOPOULOS, A., KOUMANTAKIS, J. (2002):** Extreme climatic events in the Prefecture of Korinthos (Greece) and their impact on groundwater resources. Proc. 5<sup>th</sup> International Conference “Water resources management in the era of transition”. European Water Resources Association. Athens, 107-114.
- 39) VOUDOURIS, K., PANAGOPOULOS, A., MARKANTONIS, K. (2002):** Hydrological balance and possibilities of sustainable water resources management in Stimfalia Basin (Prefecture of Corinthos). Proc. of 6<sup>th</sup> Panellenic Geographical Conference, Thessaloniki, 3-6 October 2002, Vol. II, 327-334.
- 40) VOUDOURIS, K., KALLERGIS, G. (2002):** Changes of the rainfall regime in S. Greece and water resources management. Proc. of 6<sup>th</sup> Hydrogeological Conference, Xanthi, 8-10 November 2002, 107-118.
- 41) VOUDOURIS, K., GIANNATOS, G., DIAMANTOPOULOU, P., ZANNIS, P., PAPAKONSTANTINOY, K. (2002):** Results of groundwater recharge on the confined aquifer in Patras industrial area (Greece). Proc. of 6<sup>th</sup> Hydrogeological Conference, Xanthi, 8-10 November 2002, 47-58 (Preliminary results of paper N° 62).
- 42) VOUDOURIS, K., STAMATIS, G. (2002):** Distribution and Fractal analysis of parameters of the upper part of unsaturated zone of the alluvial aquifer of Loutraki basin. *Mining and Metallurgical Annals, Vol. 12, No 1-2*, 39-54.
- 43) STAMATIS, G., VOUDOURIS, K. (2003):** Marine and human activity influences on the groundwater quality of southern Korinthos area (Greece). *Hydrological processes, 17*, 2327-2345.
- 44) VOUDOURIS, K. (2003):** Methodologies to predict the groundwater levels. Proc. of 9<sup>th</sup> Panellenic Conference of Hellenic Hydrotechnical Association, Thessaloniki, 321-328.
- 45) TINIAKOS, L., VOUDOURIS, K., LAMBRAKIS, N. (2003):** Preliminary results on the hydrogeological behaviour of the metamorphic and semi-metamorphic rocks in Greek islands. Proc. 1<sup>st</sup> workshop on Fissured rocks hydrogeology, Tinos, 83-92 (Ed. G. Stournaras).
- 46) VOUDOURIS, K. (2003):** Contribution to the hydrogeology and sustainable management in



Giouchta aquifer system, Prefecture of Heraklion).  
*Geotechnical Scientific Issues, Vol. 14, No 4, 36-48.*

**47) VOUDOURIS, K., PANAGOPOULOS, A., KOUMANTAKIS, J.** (2004): Nitrate pollution in the coastal aquifer system of the Korinthos Prefecture (Greece).  
*Global Nest: The International Journal, Vol. 6, No 1, 31-38.*

***Period after the position of Lecturer***

**48) VOUDOURIS, K., NIKAS, K., ANTONAKOS, K.** (2004): Study of evolution of the seawater intrusion in coastal aquifers. Case study: The coastal aquifer system of NW Achaia. Proc. of 10<sup>th</sup> International Conference of Geological Society of Greece, Thessaloniki, Vol. XXXVI/4, 1952-1961.

**49) VOUDOURIS, K., MANDILARAS, D., ANTONAKOS, A.** (2004): Methods to define the areal distribution of the salt intrusion: Examples from South Greece. Groundwater and saline intrusion. Selected papers from the 18<sup>th</sup> Salt Water Intrusion Meeting, Cartagena, Spain. Publ. Geological Survey of Spain (ed. L. Araguas, E. Custodio, M. Manzano), 465-480.

**50) VOUDOURIS, K., MANDILARAS, D.,** (2004): Evaluation of groundwater vulnerability using the Drastic Method: case study of alluvial aquifer of Glafkos Basin, Achaia. *Hydrotechnica, Journal of the Hellenic Hydrotechnical Association, Vol. 14, December 2004, 17-30.*

**51) VOUDOURIS, K., ANTONAKOS, A., KOUMANTAKIS, J.** (2005): Contribution to the assessment of water resources in Asopos river basin (Korinthia Prefecture). Proc. of 5<sup>th</sup> Conference of the Hellenic Committee of water resources management, Xanthi, 119-127.

**52) GIANNELI, Ch., SOULIOS, G., VOUDOURIS, K., DIAMANTIS, J., KILIAS, A., ZAGANA, E.** (2005): Hydrochemical characteristics of groundwater in the alluvial aquifer of Korisos Basin, prefecture of Kastoria. Proc. of 7<sup>th</sup> Hydrogeological Conference, Athens, 71-82.

**53) MARKANTONIS, K., VOUDOURIS, K., KOUMANTAKIS, J.** (2005): Groundwater resources in South-East Korinthia. Proc. of 7<sup>th</sup> Hydrogeological Conference, Athens, 281-288 (poster presentation).

**54) MATTAS, C., SOULIOS, G., DIMOPOULOS, G., DIAMANTIS, J., PANAGOPOULOS, A., VOUDOURIS, K.,** (2005): Groundwater quality in Gallikos Basin, prefecture of Kilkis. Proc. of 7<sup>th</sup> Hydrogeological Conference, Athens, 311-320.

**55) VOUDOURIS, K.,** (2005): The impacts of agricultural and tourism development on groundwater sustainability: Two examples from South Greece. *Geographies, No 10, 130-146.*

**56) STAVROPOULOS, X., VOUDOURIS, K.** (2005): Groundwater recharge: Results from deep injection tests in Achaia aquifer systems, SW Greece. Proceedings of 5<sup>th</sup> International Symposium on Management of Aquifer Recharge. Berlin, Germany. UNESCO, IHP-VI, Series on Groundwater, No 13, 755-760.

**57) VOUDOURIS, K., SOULIOS, G., RAPTI, D., MIRIOUNIS, C.** (2005): Spatial distribution of hydraulic conductivity and anisotropy of Skydras aquifer system, North Greece. "GIS and Spatial Analysis" Proc. of Annual Conference of the International Association for Mathematical Geology, Toronto, Vol. 1, 387-392.

**58) VOUDOURIS, K., DASKALAKI, P., ANTONAKOS, A.** (2005): Water resources and groundwater quality in North Peloponnesus, Greece.  
*Global Nest: The International Journal, Vol. 7, No 3, 340-353.*

**59) VOUDOURIS, K., SOTIRIADIS, M., PAVLOU, A. and HATZILIONTOS, C.** (2006): Groundwater quality in the coastal aquifer system of eastern Thermaikos Gulf, North Greece. *Journal of Environmental Protection and Ecology. Vol. 7, No 2, 269-279.*

**60) VOUDOURIS, K.** (2006): Polluting susceptibility of geological formations and soil disposal of waste: The case of oil mill waste of Korinthia Prefecture. Proc. of Conference «Wastewater Treatment Plant at small scale». Portaria, Pilio, 8-9 April 2006, 279-286 (Eds A. Zouboulis, A. Kougolos, P. Samaras, X. Prochaska).

- 61) VOUDOURIS, K., MAVROMMATIS, Th., DASKASLAKI, P., SOULIOS, G. (2006):** Rainfall variations in Crete island (Greece) and their impacts on water resources. Publicaciones del Instituto Geologico y Minero de España. Serie: Hidrogeologia y aguas subterráneas No 18, Karst, climate change and groundwater, Madrid, 453-463.
- 62) VOUDOURIS, K., DIAMANTOPOULOU, P., GIANNATOS, G., ZANNIS, P. (2006):** Groundwater recharge via deep boreholes in Patras Industrial Area aquifer system (NW Peloponnesus, Greece). *Bulletin of Engineering Geology and the Environment. Vol. 65, Number 3, 297-308.*
- 63) PAPATHANASSIOU, G., VOUDOURIS, K., CHRISTARAS, B., PAVLIDES, S. (2006):** Prediction methods of earthquake-induced liquefaction surface manifestations. E-Proc. XI<sup>th</sup> International Congress for Mathematical Geology “Quantitative Geology from multiple sources”. International Association Mathematical Geology, Liege, Belgium, September 3-8, SO9-21.
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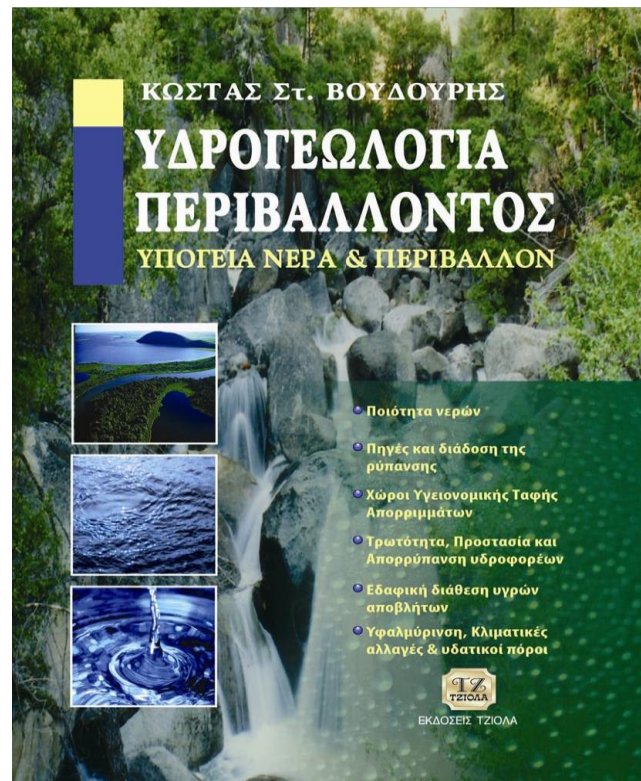
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***Contents:***

**Chapter 1:** Introduction- Basic concepts of Hydrogeology

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**Chapter 4:** Interaction between water and environment

**Chapter 5:** Pollution sources- Water contamination

**Chapter 6:** Disposal of solid wastes- Sanitary landfill

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**Chapter 8:** Disposal of liquid wastes

**Chapter 9:** Protection and restoration of aquifers

**Chapter 10:** Climate changes and environmental influences

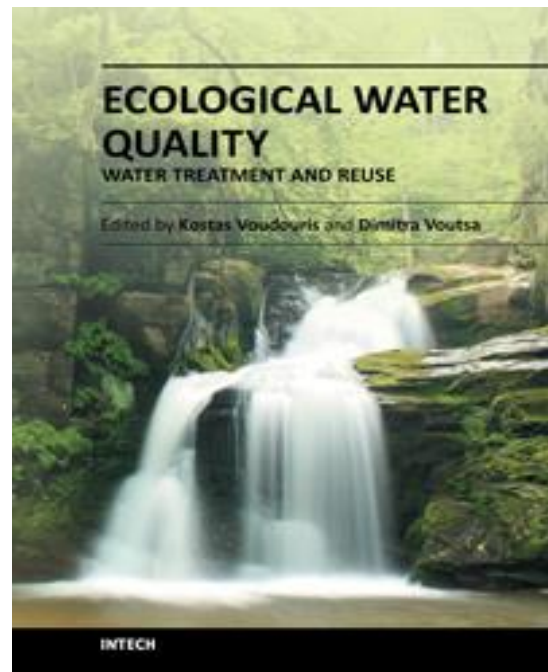
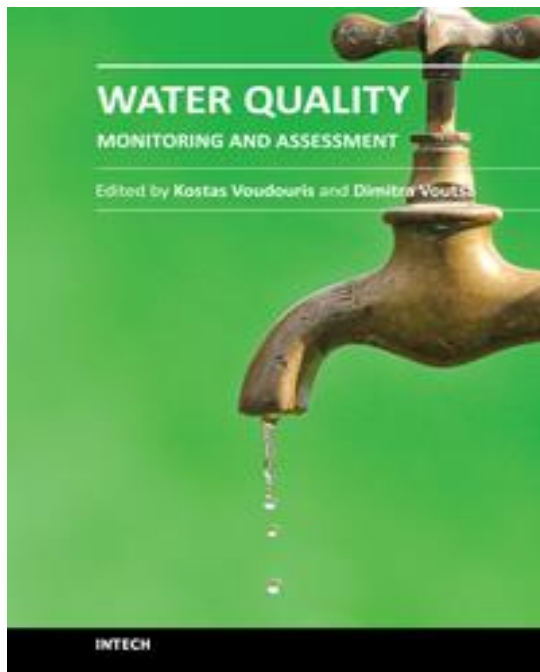
**Chapter 11:** Sea water intrusion in coastal aquifers

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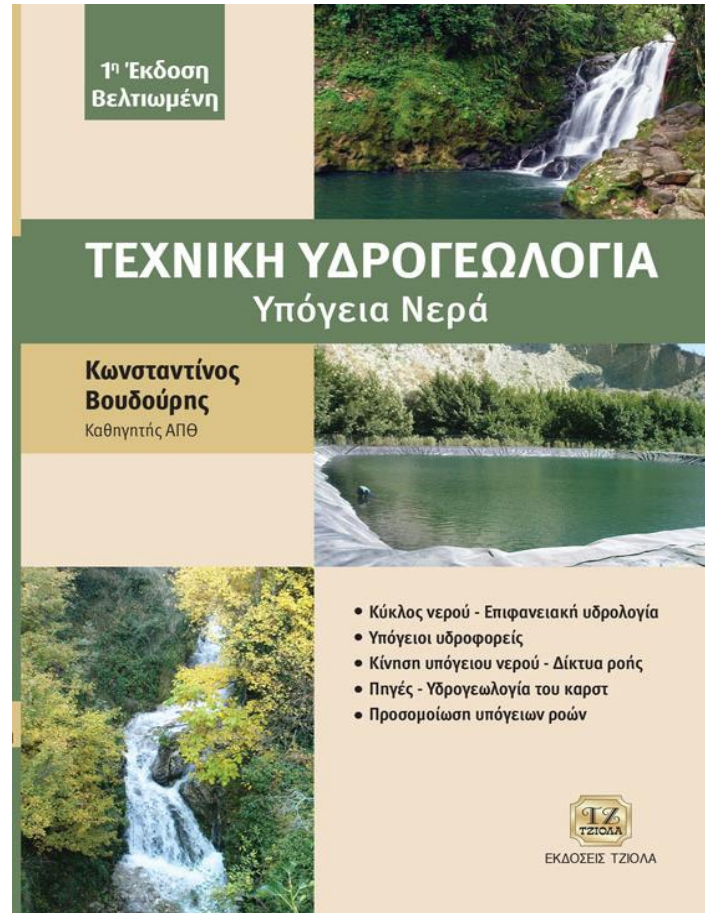
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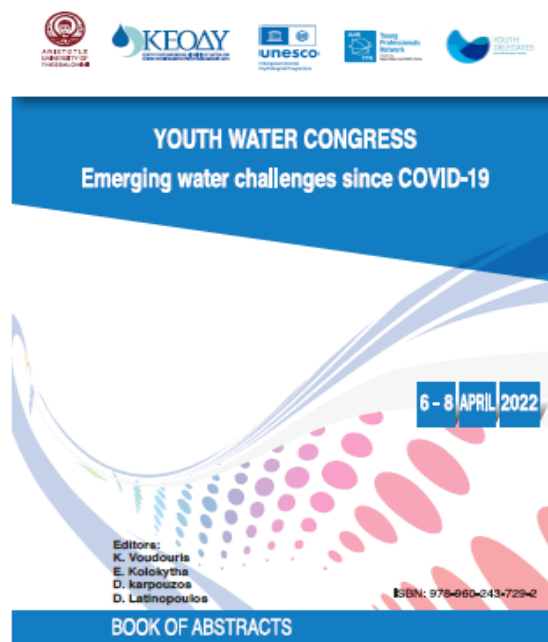
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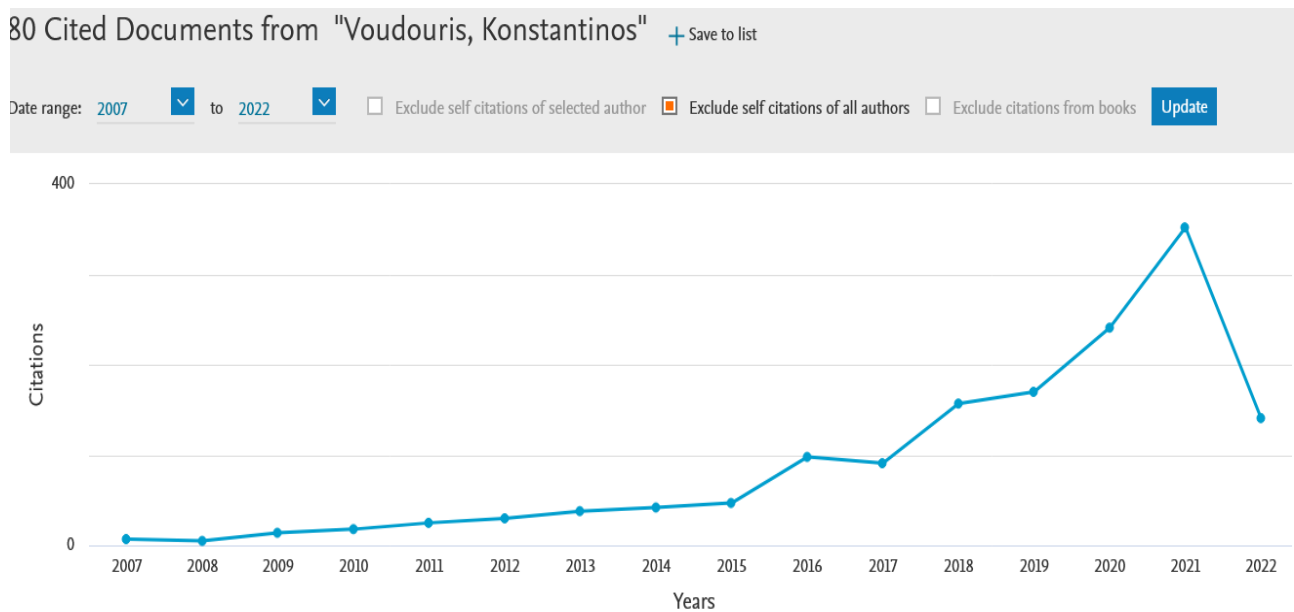
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