



DIMITRIOS AVGOULAS

SKILLS

Languages

Greek (native)
English (C2)
German (B2)



CONTACT

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EDUCATION

- **2018**
BSc Chemistry
Department of Chemistry, Aristotle University of Thessaloniki
Grade: 8,85/10 (Excellent)
- **2022**
MSc "Synthetic Chemistry, Biochemistry and Applications"
Department of Chemistry, Aristotle University of Thessaloniki
Grade: 9,11/10 (Excellent)
Specialization: Biochemistry
Thesis title: Production and identification of siderophores of the bacterium *Thermus thermophilus* HB8 (Grade: 10)
- **2022 - Present**
PhD "Biofilm structure morphology inside water systems"
Department of Chemistry, Aristotle University of Thessaloniki, Laboratory of Chemical and Environmental Technology

PUBLICATIONS

Journal article

UNRAVELING THE BINDING MECHANISM OF AN OXOVANADIUM(IV) - CURCUMIN COMPLEX ON ALBUMIN, DNA AND DNA GYRASE BY IN VITRO AND IN SILICO STUDIES AND EVALUATION OF ITS HEMOCOMPATIBILITY

Dimitrios I. Avgoulas, Georgios Katsipis, Eleftherios Halevas, Elena G. Geromichalou, George D. Geromichalos, Anastasia A. Pantazaki | Journal of Inorganic Biochemistry, 221 (2021) 111402.
DOI: 10.1016/j.jinorgbio.2021.111402

Journal article

FLAVONOID-LIPOSOMES FORMULATIONS: PHYSICO-CHEMICAL CHARACTERISTICS, BIOLOGICAL ACTIVITIES AND THERAPEUTIC APPLICATIONS

Eleftherios G. Halevas, Dimitrios I. Avgoulas, George Katsipis, Anastasia A. Pantazaki | European Journal of Medicinal Chemistry Reports, 5 (2022) 100059.
DOI: 10.1016/j.ejmcr.2022.100059

Book chapter

CHALLENGES FOR UTILIZING INEXPENSIVE AGRO-FOOD WASTES FOR THE MICROBIAL PRODUCTION OF POLYHYDROXYALKANOATES

Dimitrios I. Avgoulas, Christos P. Papaneophytou, Eleftherios G. Halevas, Ekaterini E. Velali, Anastasia A. Pantazaki | Microbial bioprocessing of Agri-food wastes, Taylor & Francis Group LLC
DOI: 10.1201/9781003128984-6

Journal article

THERAPEUTIC AND DIAGNOSTIC POTENTIAL OF EXOSOMES AS DRUG DELIVERY SYSTEMS IN BRAIN CANCER

Dimitrios I. Avgoulas, Konstantinos S. Tasioulis, Rigini M. Papi, Anastasia A. Pantazaki | *Pharmaceutics*, 15 (2023) 1439.
DOI: 10.3390/pharmaceutics15051439

Journal article

IN VITRO AND IN SILICO EVALUATION OF THE SERRAPEPTASE EFFECT ON BIOFILM AND AMYLOIDS OF PSEUDOMONAS AERUGINOSA

Georgios Katsipis, Dimitrios I. Avgoulas, George D. Geromichalos, Maria Petala, Anastasia A. Pantazaki | *Applied Microbiology and Biotechnology*, 2023.
DOI: 10.1007/s00253-023-12772-1

CONFERENCE ANNOUNCEMENTS

69th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology

A NOVEL CURCUMIN-BASED V(IV) COMPLEX AND ITS INTERACTION STUDIES WITH BOVINE SERUM ALBUMIN AND DNA

Dimitrios Avgoulas, Eleftherios Halevas, Georgios Katsipis, Athanasios Salifoglou, Georgios Litsardakis, Georgios Geromichalos, Anastasia Pantazaki | Larissa, Greece, 2018, Poster

4th Conference in Chemistry for Graduate, Postgraduate Students and PhD Candidates in Aristotle University of Thessaloniki

IN VITRO AND IN SILICO INVESTIGATION OF THE BINDING MECHANISM OF A V(IV) - CURCUMIN COMPLEX ON ALBUMIN, DNA AND DNA GYRASE AND STUDY OF ITS HEMOCOMPATIBILITY

Avgoulas D., Katsipis G., Halevas E., Geromichalou E., Geromichalos G., Pantazaki A. | Thessaloniki, Greece, 2021, Oral presentation

EXPERIENCE

● 02/19 - 04/19

Hellenic Air Force

Analytical Chemist, Elefsina, Greece
On-the-job training in the field of fuels and oil spectroscopic analysis

● 10/04/19 - 21/10/19

Hellenic Air Force

Quality Control, Thessaloniki, Greece

- Physicochemical analysis of ground and aviation fuel samples, as well as spectroscopic analysis of oils in an ISO certified laboratory using accredited methods
- Document processing and office management

● 15/01/22 -
28/02/22

Aristotle University of Thessaloniki

Thessaloniki, Greece

Scholarship holding and participation in the research study "Emulsion Dynamics and Droplet Interfaces", funded by European Space Agency (ESA)

● 23/03/22 -
31/05/22

Aristotle University of Thessaloniki

Thessaloniki, Greece

Scholarship holding and participation in the research study "Emulsion Dynamics and Droplet Interfaces", funded by European Space Agency (ESA)

● 1/10/23 -
30/11/23

Institut national de la recherche agronomique

Paris, France

Scholarship holding and working on the project "Hydrodynamics- tailored 3D biofilm structure for easy removal of biofilms in microgravity conditions"

ACHIEVEMENTS

Honorary Distinction (2018)



Graduated from the Department of Chemistry with the highest grade (Association of Greek Chemists, Division of Central & Western Macedonia)

Honorary Diploma (2007)



Distinction in a Mathematics competition (Hellenic Mathematical Society, Division of Central Macedonia)