



Dr. George Z. Kyzas

Full Professor

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POSITION

Full Professor

- Head/President at the Department of Chemistry
- Head/Director at the Hephæstus Laboratory
- Head/Director in MSc in Cosmetic Chemistry

Department of Chemistry, Democritus University of Thrace, Kavala, Greece

EXPERTISE

Chemical Technology; Materials Science; Nanotechnology; Sorption; Wastewater Treatment; Characterizations

TEACHING

Full Professor, Department of Chemistry, Democritus University of Thrace, Kavala, Greece

Undergraduate courses

Chemical Technology
Nanochemistry and Nanomaterials
Inorganic Materials Chemistry
Fluid Mechanics

Postgraduate courses

Oil-Spills and Environment
Instrumentation
Nanochemistry
Wastewaters Management

EDUCATION

BSc in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece

MSc in Industrial Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece

PhD in Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece

PUBLICATIONS



- **280 Papers (h-index 72; 17,000 Citations)** ([click here for details](#))
- **180 Presentations in Conferences** ([click here for details](#))
- **42 Chapters in Books** ([click here for details](#))
- **8 Books** ([click here for details](#))
- **11 Guest Editor in Special Issues** ([click here for details](#))
- **2 Teaching notes**
- **3 Patents** ([click here for details](#))
- **1000 Reviews in 140 Journals**
- **25 Distinctions as Author** ([click here for details](#))
- **10 Distinctions as Reviewer** ([click here for details](#))

EDITOR / REVIEWER

- **Editor in Environmental Science and Pollution Research** (Springer, IF:5.8)
- **Reviewer in more than 200 scientific journals** (ACS, Elsevier, Springer, Wiley, Taylor & Francis, etc)
- **Chair of Expert Panelists and Assessor/Evaluator/Reviewer in National, European and International research proposals/calls/projects**

RESEARCH

2023-26: Advanced nanostructured materials for sustainable growth: Green energy production/storage, energy saving and environmental remediation

2020-21: Assessment and measures of microplastics pollution in the marine environment of Kavala region

2020-22: Extension of the commercial life of fresh with ice by using ozone micro- and nano- bubbles

2020-23: Development of an integration methodology for treatment of micropollutants in wastewaters and leachates coupling adsorption, advanced oxidation processes and membrane technology

2019-21: Adsorption capacity increase of activated carbon from agricultural residues under rotation field: Oil-spills cleaning application

2019-21: Utilization of marble byproducts to enhance cement-based materials

2019-23: Development of monitoring and removal strategies of emerging micro-pollutants in wastewaters

2018-21: Nano-reinforced concrete for pavement deicing

2016-18: Multifunctional super-adsorbent materials for efficient decontamination of oil spills and heavy metal effluents

2016: Green composites and 3D objects

2015: Use of chitosan and its derivatives for drug nano-encapsulation and their application in ophthalmic formulations

2014-15: Advanced micro-extraction approaches based on novel nano- polymers to measure pharmaceuticals, personal care products and their transformation products in the aquatic environment

2013-15: Advanced Molecularly Imprinted Polymers (MIPs) as materials for the selective binding and recovery of various high-added value environmental targets with application to industrial-scale adsorption columns

2013: Implementation of monitoring program of biotic and abiotic parameters and support of self-supervision to the Lake Koronia Volvi

2013-14: Synthesis, characterization and application of novel polymeric biosorbents for the environmental-friendly removal of various pollutants from industrial effluents

2012-13: Nanocapillary©

2011-13: Preparation and characterization of plastic pipes with enhanced performance and thermal conductivity for geothermal applications of heating and cooling by using conductive nanoparticles

2006-08: Dyes removal from aqueous solutions by sorption onto molecularly imprinted polymers (MIPs)

2005-06: Pollutants removal from aqueous solutions with super-adsorbents materials

HONORS

- **PostDoc Fellow** (Stavros Niarchos Foundation, Greece)
- **PostDoc Fellow** (National State Scholarships Foundation of Greece)
- **PostDoc Fellow** (Research Committee of Aristotle University of Thessaloniki)
- **PhD Fellow** (Research Committee of Aristotle University of Thessaloniki)
- **World Top 2% Scientists in 2019, 2020, 2021, 2022** (Stanford University (USA))
- **Highly Cited Research in 2022** (WoS - Thomson Reuters Clarivate™)

MEMBERSHIPS

- ✓ American Chemical Society (ID: 30067364)
- ✓ Society of Petroleum Engineers (ID: 4082498)
- ✓ Association of Greek Chemists (ID: 14214)
- ✓ International Adsorption Society (ID: 198)
- ✓ Swiss Chemical Society (ID: 107561)
- ✓ Delegate of Greek Chemists Society in EuChemS in Materials Chemistry)

Highly Cited
Researcher
2022

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