

Contact Information

Dr. George Z. Kyzas (MSc, PhD)

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Eastern Macedonia and Thrace
Institute of Technology
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Skills

- Chemical Technology
- Sorption
- Wastewater Treatment
- Materials Science
- Characterizations

Languages

English, French, Italian

Publications

- 100 Papers (*h-index 39, 3800 Citations*)
- 56 Presentations in Conferences
- 32 Chapters in Books
- 7 Books
- 7 Guest Editor in Special Issues
- 2 Teaching notes
- 1 Patent
- ~700 Reviews in 220 Journals
- 25 Distinctions as Author
- 10 Distinctions as Reviewer
- 6 Editorial Board member

Detailed list in <http://www.kyzas.com>

Memberships

- American Chemical Society
- Society for Molecular Imprinting
- Society of Petroleum Engineers
- Association of Greek Chemists
- International Adsorption Society
- Swiss Chemical Society
- Official delegate of Association of Greek Chemists (2017-2020) in the Division of Solid State and Materials Chemistry in European Association for Chemical and Molecular Sciences (EuCheMS)

Dr. George Z. Kyzas



Associate Professor

Hephaestus Advanced Laboratory, Department of Petroleum Engineering,
Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece

Experience

Eastern Macedonia and Thrace Institute of Technology

Kavala, Greece
2019 - now

● Associate Professor

Department of Petroleum Engineering

Undergraduate courses (BSc):

- Physical Chemistry
- Materials Science
- Chemical Engineering II
- Advanced Materials

PostGraduate courses (MSc, MPhil):

- Nanotechnology/Nanomaterials (MPhil in Nanotechnology)
- Oil-spills and Environment (MSc in Oil and Gas Technology)

Eastern Macedonia and Thrace Institute of Technology

Drama, Greece
2009 - 2018

● Adjunct Professor

2009-18

Department of Oenology and Beverage Technology

Undergraduate courses (BSc):

- General Inorganic Chemistry
- Quantitative Chemical Analysis
- Wastes management
- Physical Processes

2017-18

Department of Petroleum Engineering

Undergraduate courses (BSc):

- Advanced Materials

PostGraduate courses (MSc, MPhil):

- Nanomaterials (MPhil in Nanotechnology) Oil-spills and Environment (MSc in Oil and Gas Technology)

Hellenic Open University

Patras, Greece
2017 - now

● Adjunct Professor

Faculty of Science and Technology

PostGraduate course (MSc):

- Wastewaters Management (MSc in Waste Management)

InterBalcan Institute of Public Administration (I.I.P.A.)

Thessaloniki, Greece
2012

● Instructor

Courses:

- Medical Wastes Management
- Management of natural resources for prevention/treatment of natural disasters (INTERREG III GeoPromotion)

Hellenic Army

Trikala, Greece
2011-2012

● Lecturer

Military School of Regular Officers

UnderGraduate course (BSc):

- Metallurgy

Ballis Dimitris & Son
(Biological systems)
Sindos, Thessaloniki,
Greece
2012-2015

● Chemical Analysis Laboratory

Analysis of:

- Effluents from various industries
- BOD, COD, TOC
- SS, NO₂, NO₃, Color

Education

Department of Chemistry,
Aristotle University of
Thessaloniki, Greece

● BSc in Chemistry

BSc thesis: "Study of the reuse of flotated dye-samples on textile dyeing"

Department of Chemistry,
Aristotle University of
Thessaloniki, Greece

● MSc in Industrial Chemistry

MSc thesis: "Multiparametric study for the removal of environmental pollutants in sorptive beds"

Department of Chemistry,
Aristotle University of
Thessaloniki, Greece

● PhD in Chemical Technology

PhD thesis: "Dyes removal from aqueous systems with sorption process"

Projects

Now...

- **2018-21:** Nanoreinforced concrete for pavement deicing (EMaTTech, Greece)
- **2018-21:** Development of nanotechnology-enabled next-generation membranes and their applications in low-energy, zero liquid discharge desalination membrane system (EMaTTech, Greece)

...Past

- **2016-18:** Multifunctional super-adsorbent materials for efficient decontamination of oil spills and heavy metal effluents (EMaTTech, Greece)
- **2016:** Green composites and 3D objects (AUTH, Greece)
- **2015:** Use of chitosan and its derivatives for drug nanoencapsulation and their application in ophthalmic formulations (AUTH, Greece)
- **2014-15:** Advanced microextraction approaches based on novel nano-polymers to measure pharmaceuticals, personal care products and their transformation products in the aquatic environment (AUTH, Greece)
- **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 (AUTH, Greece)
- **2013:** Implementation of monitoring programme of biotic and abiotic parameters and support of self supervision to the Lake Koronia Volvi (AUTH, Greece)
- **2013-14:** Synthesis, characterization and application of novel polymeric biosorbents for the environmental-friendly removal of various pollutants from industrial effluents (AUTH, Greece)
- **2012-13:** Nanocapillary (EMaTTech, Greece)
- **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 (AUTH, Greece)
- **2006-08:** Dyes removal from aqueous solutions by sorption onto molecularly imprinted polymers (MIPs) (AUTH, Greece)
- **2005-06:** Pollutants removal from aqueous solutions with super-adsorbents materials (AUTH, Greece)
- **2004-05:** Application of novel processes in the treatment of liquid textile industrial effluents (AUTH, Greece)

Honors & Awards

- **2016-2018: PostDoc Fellow** (Stavros Niarchos Foundation, Greece)
- **2013-2015: PostDoc Fellow** (IKY State Scholarships Foundation of Greece)
- **2013: PostDoc Fellow** (Research Committee of Aristotle University of Thessaloniki, Greece)
- **2009: PhD Fellow** (Research Committee of Aristotle University of Thessaloniki, Greece)