



Dr. George Z. Kyzas

Associate Professor

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POSITION

Associate Professor

Department of Chemistry, International Hellenic University, Kavala, Greece

EXPERTISE

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

WORK EXPERIENCE

06/2019 – now Associate Professor, Department of Chemistry, International Hellenic University, Kavala, Greece

Undergraduate courses:

- Chemical Technology
- Nanochemistry and Nanomaterials
- Inorganic Materials Chemistry

Postgraduate courses:

- Oil-Spills and Environment (MSc in Oil and Gas Technology)
- Hazard Identification and Risk Management (MSc in Oil and Gas Technology)
- Instrumentation (MPhil in Nanotechnology)
- Nanotechnology/Nanomaterials (MPhil in Nanotechnology)

10/2017 – now Adjunct Professor, Faculty of Science and Technology, Hellenic Open University, Patras, Greece

Postgraduate courses:

- Wastewaters Management (MSc in Wastes Management)

02/2019 – 06/2019 Associate Professor, Department of Petroleum and Mechanical Engineering, Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece

Undergraduate courses:

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

Postgraduate courses:

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

09/2009 – 02/2019 Adjunct Professor, Department of Oenology and Beverage Technology, Eastern Macedonia and Thrace Institute of Technology, Drama, Greece

Undergraduate courses:

- General Inorganic Chemistry
- Quantitative Chemical Analysis

- Wastes management
- Physical Processes

Postgraduate courses:

- Nanomaterials (MPhil in Nanotechnology, 2017-2018)

EDUCATION

2004: BSc in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece

2006: MSc in Industrial Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece

2010: PhD in Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece

PUBLICATIONS

- **108 Papers (h-index 41, 4400 Citations)** ([click here for details](#))
- **68 Presentations in Conferences** ([click here for details](#))
- **34 Chapters in Books** ([click here for details](#))
- **7 Books** ([click here for details](#))
- **9 Guest Editor in Special Issues** ([click here for details](#))
- **2 Teaching notes**
- **1 Patent** ([click here for details](#))
- **820 Reviews in 230 Journals**
- **25 Distinctions as Author** ([click here for details](#))
- **10 Distinctions as Reviewer** ([click here for details](#))

RESEARCH

Now....

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

2019-21: Development of monitoring and removal strategies of emerging micro-pollutants in wastewaters

2018-21: Nano-reinforced concrete for pavement deicing

....Past

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

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)

2009: PhD Fellow (Research Committee of Aristotle University of Thessaloniki)

MEMBERSHIPS

- ✓ American Chemical Society (ID: 30067364)
 - ✓ Society for Molecular Imprinting (SMI)
 - ✓ Society of Petroleum Engineers (ID: 4082498)
 - ✓ Association of Greek Chemists (ID: 14214)
 - ✓ International Adsorption Society (ID: 198)
 - ✓ Swiss Chemical Society (ID: 107561)
 - ✓ Official delegate of Association of Greek Chemists for the period 2017-2020 in the Division of Solid State and Materials Chemistry in European Association for Chemical and Molecular Sciences (EuCheMS)
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