

Dr Antonis Zorpas, Short CV

I have studied Chemical Engineering (1990-1995) and I hold MSc in Chemical Engineering (1995) and a PhD which focuses on Environmental Management and Engineering (1996-2000) (in the area of Chemical Science). My PhD focuses on the Development of a Methodology for the composting of sewage sludge using Natural Minerals (Zeolites/Cl). I had or I still have significant co-operations with several Universities and other Research Institutes in Europe such as University of Cyprus, the National Technical University of Athens, Kapodistrian University of Athens, Aristotle University of Thessaloniki, Harokopio University of Athens, International Hellenic University in Thessaloniki, Université de Haute-Alsace (France), University Miguel Hernandez of Elche (Spain) and many others across EU and around the world, as well as the substantial and important collaborations that I have with several organizations (governmental, non-profit, local authorities, etc.)

Now I am in the position of **Assistant Professor** at Open University of Cyprus (Faculty of Pure and Applied: Lecture from 2016-2019, was associated Lecture from 2010-2015) teaching in the Master program of Environmental Conservation and Management which I'm also the Academic Coordinator since 2016: Solid and Liquid Waste Treatment/Management/ wastewater treatment, water treatment, water footprint as well as Environmental Friendly Technology, Renewable Energy, Sustainable Development-Strategic Planning Development - Circular Economy – Bio Economy – City Metabolism – Blue economy, Risk Assessment/LCA/EIA/Health and Safety/ etc. Hence, I'm the Head of the Laboratory of Chemical Engineering and Engineering Sustainability which I have developed on 2016. I was teaching in Cyprus University as associated from 2011-2013 while from 1996-2012, I was teaching in several other Universities in Greece. In general, I have lots of teaching hours in Academic Undergraduate and Postgraduate level.

I have taught in the past (1996-Today) several scientific fields like: Water and Soil Pollution, Processing & Supply of Liquid Waste, Treatment and Disposal of Solid Waste, Composting-Biosolids Management, Advanced Treatment of Liquid and Solid Waste, Restoration Technologies, Hazardous Waste Management and Treatment, Clean Technology Design Systems, Design of Waste and Wastewater Treatment Plants, Utilization of Biomass, Strategic Development etc. **Moreover, there are 8 PhD students** under my supervision this time of the year in the scientific field of circular economy, metabolism of the cities, genetically modified organism and their effect on the environment, energy policies, soils metabolism and soils Organic Matter, composting from animals' mortalities.

Hence more than 80 students were guided/moderated from me to finalized their Master Thesis (in the general scientific area of Chemical Engineering, Environmental Science and Engineering) **undergraduate and MSc dissertations in NTUA and OUC with 2 of them to received awards by external organizations**. I have also developed a **New Master Program in the section of Chemical Engineering and Environmental Engineering on behalf of Open University of Cyprus**.

Until now, I am the editor in 3 two scientific books. The first with the title "Sludge Management; From the Past to Our Century" published on March 2012 from the Nova Science Publisher, and the second with the title "Natural Zeolites" published on Sep 2012 from Bentham Science Publishers, while the third "Sustainability Behind Sustainability" published on Augusts 2014 covering horizontal the difficult subject of Sustainable Development from Nova Science. On 2021 will be published from Elsevier my 4th book in the area of "Tomato Processing By-Products – Sustainable Applications". Furthermore, I have written **29** chapters for other 12 scientific Books, **15 academically Note Books in Greek** (focuses on Environmental Science, Engineering Strategic Planning, Chemical Engineering etc). Also, I'm in the editorial board of several scientific journals. I have published (until now) **110 scientific papers (+6 which has been submitted) in more than 20 different scientific journals** and with impact factor up to 6.395, as well as I have more **than 230 presentations in International and National Conferences**. All those provided some personal achievements as **My Scopus h-index is 25 with more than 2200 citations**, **My Research Gate Score is 42.16 with the Research Gate h-index to be 26 and with more than 60000 research gates reads and more than 2500 citations**, while my **Google Scholar h-index = 29** and the Google Scholar i10-index is 56 with more **than 3500 citations**. At the same time, I am one of the reviewers of more than 20 scientific journals (which belong to ELSEVIER, ISWA, Emerald, Nova Science, Taylor and Francis, Springer, Elsevier, SAGE, etc).

For more than 20 years I was acting as Consulting Engineer (Chemical Engineer and Environmental Engineer) on behalf for several Industrial Activities (including international industries) and Governmental and Local Authorities

like: Cosmetic and Pharmaceutical Products, Refinery Petroleum Industry, Cement Company, Bakeries And Confectioneries, Machinery Industry – Formation of Equipment, Winery, Metal Distribution Industry, Thematic Parks (Water Park, Play Grounds, Entertainment Parks), Contractors Companies, Cement Products, Animal Feed Industry, Chemical Products, Olive Oil Industries, Hotels and Tourist Activities, Caw-Poultry Farms, Slaughterhouse, Food Industries, Flour Industry, Renewable Energy Parks, Hospital and Medical Activities, Waste water treatment plants, etc. Main responsibilities were the development of Strategic Planning, Zero Waste approach, Sustainable Development, Environmental Science / Management, Treatment and Management of Solid - Liquid Waste including water, Environmental Impact, Risk Assessment Analysis, LCA, Multi Criteria Analysis, Design of Factory Production Control and new products for the market, Training, SWOT-PESTEL analysis etc I was invited in several Universities around Europe and in several Conferences to provide key note speech on several scientific fields (mostly on Environmental Science, Environmental and Chemical Engineering), as well as I was chairing several sessions and furthermore, I was in the scientific advisory committee of several international conference.

I received Honorary on 2019, from **Cyprus President** for my long standing and long-term contribution to the Environment in Cyprus as well as for my support to the Government of Cyprus to achieve its Environmental Goals, as well as I have also received Honorary on 2018 from Cyprus Telecommunication (CYTA) for my long standing and long-term contribution to the Environment in Cyprus and for my support to CYTA to achieve its Environmental Goals. Furthermore, I was appointment from the Cyprus President (2014-2023) to be part of the Cyprus Technical Environmental Committee. I was am from 2013-2019 the President of Cyprus Environmental Engineers Council. I was in the Scientific Advisory committee of the Office of the Cyprus Commissioner for the Environment (2013-2019). In addition, I was (from 2016-2019) the Board of experts for strategic advised in the EURASHE committee in Brussels. **EURASHE is the European Association of Institutions in Higher Education** that offer professionally orientated programs and are engaged in applied research within the Bologna cycles. I am also elected member of Open University of Cyprus Senate (2018-2023) (as well as I participated in several other University committees, such as Presided of the Research Committee of the University), Member of the committee of Chemical Engineering, as well as the committee of Climate Change and Sustainable Development on the Cyprus Technical Chamber and appointment member (and Coordinator) of the Board of Environmental Engineers Committee on behalf of the Technical Chamber of Cyprus. Hence, I'm a Scientific Co-operator on the European Commission since 2008 as expert evaluator. Moreover, I have been appointment from the Presidential Palace of Cyprus Government to design and to establish the EMAS (Ecological Management Audit Scheme) on 2017 (Cyprus Presidential House is the first one in entire EU that has hold a validated EMAS certification after verification).

I have accreditation from the Cyprus Institute of Technology in higher scale in the section: Environmental Management, Health and Safety Management, Research and Developments, Quality Management, Facilities Plants. Also, I am Environmental Auditor (Lead Auditor of ISO 14001/EMAS), Quality Control Auditor (Lead Auditor ISO 9001, ISO 19011) and I am Health and Safety Auditor (Accreditation- OHSAS 18001).

My research is funded from European sources (like: LIFE+, FP7, HORIZON, TWINING, INTERREG etc.) and National or Industrial sources. I have taken part in more than 60 research programs the last 15 years while at the same time I have had the benefit to investigate and develop new scientific research areas either in industrial and either in academic level. I have done several simulations for the treatment of liquid and solid waste in the lab before their final application in the industry. I have also Developed several Governmental and Local Authorities Strategic Planning (like waste prevention, zero waste, sustainable projects, etc).

My research back-round includes more than on 20 years of experience in the following subjects (can be used also as Keywords):

- i) Strategic planning development, zero waste approach, waste prevention etc
- ii) Waste minimization monitoring and evaluation,
- iii) City metabolism, Circular economy and Industrial Symbiosis
- iv) Bio economy, Sustainable development programs (environmental, social culture and economics)
- v) Management and treatment of Liquid waste, Management of solid waste
- vi) Water footprint, wastewater management and monitoring, Environmental Footprint

- vii) Environmental Impact and Environmental Risk Assessment Analysis / multi criteria analysis models / LCA / SWOT-PESTEL analysis, EMAS, ISO 14001,
- viii) Implementation of Natural minerals (Zeolites) in the treatment of solid and liquid waste
- ix) Implementation of Composting methods for the treatment of several organic waste, bio-waste, bio solids up on sustainable way
- x) Implementation of chemical oxidation, electrochemical oxidation for the treatment of heavy polluted waste
- xi) Optimization of Waste water treatment plants under high climate conditions and production of energy

More details about Dr Zorpas publication records could be found at

- (a) <https://scholar.google.com/citations?user=D7koX6YAAAAJ&hl=en>
- (b) https://www.researchgate.net/profile/Antonis_Zorpas
- (c) <https://www.scopus.com/authid/detail.uri?authorId=6603816522>