### Curriculum Vitae of Orhan Yenigün

DATE AND PLACE

**OF BIRTH** : Istanbul, 25 January 1954

**ADDRESS** : Bogaziçi University, Institute of Environmental Sciences, Bebek

34342 Istanbul, Turkey.

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**EDUCATION** and **DEGREES** 

:**Prof.** (Environmental Technology); Boğaziçi University, 1995 - . **Assoc. Prof.** - (Chemical Engineering-Chemical Technologies-

Environmental Technology); Boğaziçi University, 1989. **Ph.D.** - University of Wales, University College of

Swansea, U.K., Dept. Chem. Eng. 1984.

M.Sc. - University of Wales, University College of

Swansea, U.K., Dept. Chem. Eng. 1980.

**B.S.** - Middle East Technical University, Dept. Chem, Eng., 1978.

Lycee (Science): Robert College, 1972.

**MEMBERSHIP** 

TO PROFESSIONAL

**ORGANIZATIONS**: Academy of Sciences of Turkey (Bilim Akademisi): Executive

Committee member;

International Water Association (IWA): Governing

Board member:

Turkish National Committee for Water Pollution and Control:

Executive Committee member Turkish Chamber of Chemical Engineers Turkish Energy Economics Association

PROFESSIONAL CAREER

: University College of Swansea, Research Assistant, 1980-1984.

Boğaziçi University, Institute of Environmental Sciences,

Lecturer, 1984 - 1985;

Boğaziçi University, Institute of Environmental Sciences, Assist.

Prof. 1985-1989;

Boğaziçi University, Institute of Environmental Sciences, Assoc.

Prof., 1989 - 1995

Boğaziçi University, Institute of Environmental Sciences, Prof.,

1995-

## TEACHING EXPERIENCE

## Courses tought in the Institute of Environmental Sciences since 1984:

ESC 301 The Environmental Dimension

ESC 305 Global Climate Change

ESC 501 Principles of Environmental Pollution

ESC 506 Environmental Engineering

ESC 514 Water Quality Management

ESC 521 Air Pollution and Control

ESC 523 Advanced Air Pollution Modelling

ESC 540 Air Pollution Engineering

ESC 550 Marine Pollution

ESC 573 Environmental Oceanography

ESC 625 Environmental Impact Assessment

ESC 646 Water Quality Management

ESC 647 Industrial Waste Treatment Theory and Practice

ESC 651 Environmental Quality Laboratory

ESC 653 Chemistry of the Atmosphere

### THESES SUPERVISION

22 Ph.D. Dissertations and 60 M.S. Theses supervised to completion.

# ADMINISTRATIVE DUTIES:

#### **Duties in the Past**

Director of the Institute of Environmental Sciences (1999 -2021)

Member of University Senate (1999 -2021)

University Publications Committee (2007- 2021)

Member University Executive Council (2007- 2011)

Member of University Research Fund – BAP Commission(1999 - 2014)

Director of CENDIM (Center for Disaster Management) (2004-2007)

Senate Ways and Means (Usul ve Esaslar) Committee (2003-2008)

University Disciplinary Committee; Chair (2000-2008)

Vice Director of the Institute of Environmental Sciences(1987-1993;

1996 - 1999)

Head of Environmental Technology Discipline (1987-1988;1997-1999)

Head of Environmental Sciences Discipline (1988-1991)

CITATIONS: (Web of Science) 4282

(Scopus) 4311 (Google) 6713

WEB of SCIENCE h INDEX: 32

SCOPUS h INDEX: 31 GOOGLE h INDEX: 36

### **PUBLICATIONS:** (Journal Papers – SCI, SCI-E, SSCI only)

### 7. Yayınlar

- Yufenyuy M, Pirgalioglu S, Yenigün O. Dynamic assessment of the impact of agricultural land use change and globalization on environmental quality in the tropical African Rainforest: evidence from the Congo Basin, *Environmental Science and Pollution Research* 31 (1), 1331-1357, 2024.
- Yufenyuy M, Pirgalioglu S, Yenigün O. The asymmetric efect of biomass energy use on environmental quality: empirical evidence from the Congo Basin, *Environment, Development and Sustainability*, Published Online, 2023.
- Da Silva CC, .......Yenigün O, et al. Spatiotemporal forecasting for dengue, chikungunya fever and Zika using machine learning and artifcial expert committees based on meta-heuristics. *Research on Biomedical Engineering*, 38:499-537, 2022.
- De Lima CL, ......Yenigun O, et al. Temporal and Spatiotemporal Arboviruses Forecasting by Machine Learning: A Systematic Review, *Frontiers in Public Health*, 10, Article No 90077, 2022
- Tunali MM, Myronyuk O, Tunali M, Yenigun. Microplastic Abundance in Human-Infuenced Soils in Recreational, Residential, and Industrial Areas, *Water Air & Soil Pollution*, 233: 433, 2022.
- Musah A, ...... Yenigun O, et al. An Evaluation of the OpenWeatherMap API versus INMET Using Weather Data from Two Brazilian Cities: Recife and Campina Grande, *Data*, 7, 106, 2022.
- M Tunali, AA Radin, S Başıbüyük, A Musah, IVG Borges, O Yenigun, et al..., A review exploring the overarching burden of Zika virus with emphasis on epidemiological case studies from Brazil, *Environmental Science and Pollution Research* 28 (40), 55952-55966, 2021.
- Alagöz BA, Yenigün O, Erdinçler A. Towards agricultural waste management: Reuse and energy recovery for biomass, *International Journal of Global Warming*, 23, 138-150, 2021.
- Tunali M, Tunali MM, Yenigün O. Characterization of different types of electronic waste: heavy metal, precious metal and rare earth element content by comparing different digestion methods, *Journal of Material Cycles and Waste Management*, doi.org/10.1007/s10163-20-01108-0, Early Access, September 2020.
- Tunali M, Uzoefuna EN, Tunali MM, Yenigün O. Effect of microplastics and microplastic-metal combinations on growth and chlorophyll a concentration of *Chlorella vulgaris*, *Science of the Total Environment*, 743, Article No: 140479, 2020.
- Alagöz BA, Yenigun O, Erdinçler A. Ultrasound assisted biogas production from co-digestion of wastewater sludges and agricultural wastes: Comparison with microwave pre-treatment. *Ultrosonics Sonochemistry*, 40, 193-200, 2018.
- Türker G, Aydin S, Akyol C, Yenigun O, Ince O, Ince B. Changes in microbial community structures due to varying operational conditions in the anaerobic digestion of oxytetracycline-medicated cow manure. *Applied Microbiology and Biotechnology*, 100, 6469-6479, 2016.
- Alagoz BA, Yenigun O, Erdincler A. Enhancement of anaerobic digestion efficiency
  of wastewater sludge and olive waste: Synergistic effect of co-digestion and
  ultrasonic/microwave sludge pretreatment. Waste Management, 46, 182-188, 2015.

- Oral V, Guney M, Kucuker MA, Onay TT, Copty N, Mater B, Yenigun, O. The impact of hazelnuts in land-use changes on soil carbon and in situ soil respiration dynamics, *Journal of Environmental Management*. 129, 341-349, 2013.
- Yenigun O, Demirel B. Ammonia inhibition in anaerobic digestion: A review. *Process Biochemistry*, 48, 901-911, 2013.
- Ozdemir B, Yenigün O. A pilot scale study on high biomass systems: Energy and cost analysis of sludge reduction. *Journal of Membrane Science*, 428-589-597, 2013.
- Im U, Incecik S, Guler M, Tek A, Topcu S, Unal YS, Yenigun O, Kindap T, Odman MT, Tayanc. Analysis of surface ozone and nitrogen oxides at urban, semi-rural and rural sites in Istanbul, Turkey, *Science of the Total Environment*, 443, 920-931, 2013.
- Karakocak BB, Yenigun O, Toraman RT. An integrated approach to water management in Kayseri: rainwater collection and use in an amusement park. *Water Science and Technology*, 67(5), 1137-1143, 2013.
- Savun B, Neis U, Ince NH, Yenigun O. Pretreatment of sewage sludge by low frequency ultrasound. *Journal of Advanced Oxidation Technologies*, **15**(2), 374-379, 2012.
- Erses SY, Oral HV, Onay TT, Yenigun O. A study on olive mill wastewater management in Turkey: A questionnaire and experimental approach, *Resources, Conservation and Recycling*, **60**, 64-71, 2012.
- Ozdemir B, Saatci A, Yenigun O. Evaluation of cake filtration biological reactors (CFBR) vs. membrane biological reactors (MBR) in a pilot scale plant, *Desalination*, 288, 135-144, 2012.
- Kocak M, Theodosi C, Zarmpas P, Im U, Bougiatioti A, Yenigun O, Mihalopoulos N. Particulate matter (PM10) in Istanbul: Origins, source areas, and potential impact on surrounding regions, *Atmospheric Environment*, **45**, 6891-6900, 2011.
- Kucukasik F, Kazak H, Güney D, Finore I, Poli A, Yenigun O, Nicolaus B, Oner ET, Molasses as fermentation substrate for levan production by *Halomonas* sp., *Applied Microbiology and Biotechnology*, **89**, No: 6, 1729-1740, 2011.
- Sam S, Kucukasik F, Yenigun O, Nicolaus B, Oner ET, Yukselen MA. Flocculating performances of exopolysaccharides produced by a halophilic bacterial strain cultivated on agro-industrial waste, *Bioresource Technology*, **102**, No: 2, 1788-1794, 2011.
- Im U, Poupkou A, Incecik S, Markakis K, Kindap T, Unal A, Melas D, Yenigun O, Topcu S, Odman MT, Tayanc M, Guler M. The impact of anthropogenic and biogenic emissions on surface ozone concentrations in Istanbul. *Science of the Total Environment*, **409**, No: 7, 1255-1265, 2011.
- Ozdemir B, Mertoglu B, Yapsakli K, Aliyazicioglu C, Saatci A, Yenigun O.
   Investigation of nitrogen converters in membrane bioreactor, *Journal of Environmental Science and Health-Part A.*, 46, No: 5, 500-508, 2011.
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- Im U, Markakis K, Unal A, Kindap T, Poupkou A, Incecik S, Yenigun O, Melas D, Theodosi C, Mihalopoulos N. Study of a winter PM episode in Istanbul using the high resolution WRF/CMAQ modeling system. *Atmospheric Environment*, **44**, No: 26, 3085-3094, 2010.

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- Erses S, Onay TT, Yenigun O. Comparison of aerobic and anaerobic degradation of municipal solid waste in bioreactor landfills, *Bioresource Technology*, **99**, No: 13, 5418-5426, 2008.
- Im U, Tayanc M, Yenigun O. Interaction patterns of major photochemical pollutants in Istanbul, Turkey. *Atmospheric Research*, 2008, **89**, No: 4, 382-390, 2008.
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