

Curriculum Vitae of Orhan Yenigün

DATE AND PLACE OF BIRTH

: Istanbul, 25 January 1954

ADDRESS

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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.

MEMBERSHIP TO PROFESSIONAL ORGANIZATIONS

: Academy of Sciences of Turkey.
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; Executive Committee
member

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 taught 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

18 Ph.D. Dissertations and 62 M.S. Theses supervised to completion.

ADMINISTRATIVE DUTIES:

Present Duties

Director of the Institute of Environmental Sciences (1999 -)

Member of University Senate (1999 -)

Duties in the Past

Member University Executive Council (2007- 2011)

Member of University Research Fund (1999 - 2014)

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

CITATIONS: (Web of Science) 2400

WEB of SCIENCE *h* INDEX: 25

PUBLICATIONS (2006-2018): (Journal Papers – SCI, SCI-E, SSCI only)

- Alagöz BA, Yenigun O, Erdinçler A. Ultrasound assisted biogas production from co-digestion of wastewater sludges and agricultural wastes: Comparison with microwave pre-treatment. *Ultrasonics Sonochemistry*, 40, 193-200, 2018.
- Türker G, Aydın 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, Erdinçler 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, Güney M, Kucuker MA, Onay TT, Coştu 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.
- Özdemir 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, Güler 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.
- Özdemir 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, Zampas 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, Güler 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.
- Özdemir 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.
- Theodosi C, Im U, Bougiatioti A, Zampas P, Yenigün O, Mihalopoulos N. Aerosol chemical composition over Istanbul. *Science of the Total Environment*, 408, No: 12, 2482-2491, 2010.

- 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.
- Demirel B, Scherer P, Yenigun O, Onay TT. Production of methane and hydrogen from biomass through conventional and high-rate anaerobic digestion processes. *Critical Reviews in Environmental Science and Technology*, **40**, No: 2, 116-146, 2010.
- Yenigun O and Canbulat, T. Turkey's state of the environment through the spectacles of the EU. *The Journal of Interdisciplinary Economics*, **20**, 361-372, 2009.
- 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.
- Im U, Onay T, Yenigun O, Kambezidis H, Kaskaoutis D, Antepioglu U, Kassomenos P, Incecik S, Topcu S, Melas D, Papadopoulos A. An overview of forest fires and meteorology in Turkey and Greece. IEEE, 1st International Symposium on Environment Identities and Mediterranean Area, Corte Ajaccio, France, July 10-13, V 1-2, 73-78, 2006.
- Demirel B, Yenigun O. Changes in microbial ecology in an anaerobic reactor. *Bioresource Technology*, **97**(10), 1201-1208, 2006.
- Im U, Tayanç M, Yenigun O. Analysis of major photochemical pollutants with meteorological factors for high ozone days in Istanbul, Turkey, *Water Air and Soil Pollution*, **175**, 335-359, 2006.