



FACULTY FULL NAME: Cevat Yaman

POSITION: Associate Professor

Personal Data

Nationality | Turkish

Date of Birth | May 01, 1969

Department | Environmental Engineering

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Language Proficiency

Language	Read	Write	Speak
Arabic	Average	Basic	Basic
English	Excellent	Excellent	Excellent
Turkish	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2003	PhD	Drexel University	Philadelphia PA USA
1996	MSc	Drexel University	Philadelphia PA USA
1992	BSc	Istanbul Technical University	Istanbul TURKEY

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Using geotextiles as fixed film surface in wastewater and stormwater treatment
Master	Removal of disinfection by-products from drinking water
Fellowship	Recycling of used paper in Istanbul



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Associate Professor	Imam Abdulrahman Bin Faisal University	Dammam	SAUDI ARABIA	2018-
Associate Professor	Gebze Technical University	Kocaeli	TURKEY	2014-2018
Head of Environmental Protection Department of Istanbul	Istanbul Metropolitan Municipality	Istanbul	TURKEY	2009-2014
Deputy Director General of Environmental Management	Ministry of Environment and Forestry of	Ankara	TURKEY	2008-2009
Project Manager	RT Environmental Services	King of Prussia PA	USA	2006-2008
Staff Engineer	Roux Associates	West Deptford NJ	USA	2002-2002
Environmental/ Geotechnical Engineer	Melick-Tully and Associates	Mt. Laurel NJ	USA	2001-2002

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Secretary General	Gebze Technical University TURKEY	2014-2016
Head of Environmental Protection Department	Istanbul Metropolitan Municipality TURKEY	2010-2013
Director of European Union Relations	Istanbul Metropolitan Municipality TURKEY	2009-2010
Deputy Director General of Environmental Management	Ministry of Environment and Forestry of TURKEY	2008-2009



Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
23	C. Yaman	“Investigation of greenhouse gas emissions and energy recovery potential from municipal solid waste management practices.”	<i>Environmental Development</i> . 33, 100484, (2020).
22	C. Yaman, I. Anil, O. Alagha	“Potential for greenhouse gas reduction and energy recovery from MSW through different waste management technologies.”	<i>Journal of Cleaner Production</i> , 264, 121432. (2020).
21	C. Yaman	Monitoring of biochemical parameters and GHG emissions in Bioaugmented manure composting.	<i>Processes</i> , 8, (681). (2020).
20	C. Yaman	“Performance and kinetics of bioaugmentation, biostimulation and natural attenuation processes for bioremediation of crude oil-contaminated soils.”	<i>Processes</i> , 8(8), 883. (2020).
19	C. Yaman	“Application of sterilization process for inactivation of <i>Bacillus stearothermophilus</i> in biomedical waste and associated greenhouse gas emissions.”	<i>Applied Sciences</i> , 10(15), 5056. (2020).
18	S. S. Shar, E. Cevik, A. Bozkurt, C. Yaman, Z. Almutari, T. S. Kayed	“Molybdate incorporated poly(acrylic acid) electrolytes for use in quasi-solid state carbon based supercapacitors: Redox-active polychelates.”	<i>Electrochimica Acta</i> , Volume 354, 10, 136770. (2020).
17	C. Yaman	“Improvement of leachate quality and waste stabilization in pilot-scale bioreactor landfills containing geotextile filters and sewage sludge.”	<i>Desalination and Water Treatment</i> . 158, 41-58. (2019)
16	C. Yaman, I. Anil, M. K. Jaunich, N. I. Blaisi, O. Alagha, A. B. Yaman, S. T. Gunday (2019).	“Investigation and modeling of greenhouse gas emissions resulting from waste collection and transport activities.”	<i>Waste Management and Research</i> . Volume: 37, Issue: 12, pp. 1282-1290.
15	S. Rehman, M. A. Almessiere, N.	“Fabrication of Spinel Cobalt Ferrite (CoFe ₂ O ₄) Nanoparticles	<i>Activities.” Chemistry Select</i> , 4, 14329-14334.



	Tashkandi, A. Baykal, Y. Slimani, R. Jermy, V. Ravinayagam, C. Yaman. (2019).	with Unique Earth Element Cerium and Neodymium for Anticandidal	
14	C. Yaman, Y. Küçükkağa, G. Delice, B. Pala, A. Akyol, S. Kara and N. E. Korkut	Enhancement of Landfill Gas Production and Waste Stabilization by Using Geotextile Filter in a Landfill Bioreactor	International Journal of Global Warming Vol. 17, No. 1, 2019
13	N. E. Korkut, C. Yaman, Y. Küçükkağa, İ. Demir, and M. K. Jaunich	Greenhouse Gas Contribution of Municipal Solid Waste Collection: A Case Study in the City of Istanbul, Turkey	Waste Management and Research. Vol 36, Issue 2, pp 131-139, 2018
12	C. Yaman and Y. Küçükkağa	Effect of a Geotextile Filter on Leachate Quality in a Recirculated Landfill Bioreactor	Desalination and Water Treatment, Vol. 80, pp. 61–73, 2017
	A. Çoban, G. Demir, H. E. Ökten, H. K. Özcan, C. Yaman, and Ş. Yıldız	Advanced Treatment of Leachate by Using Aerobic/Anoxic MBR System Followed by A Nanofiltration Process. A Case Study in Istanbul Kömürcüoda Leachate Treatment Plant	Environment Protection Engineering, Vol. 38, No 3, pp. 57-64, 2012
11	C. Yaman	Costs Pertaining to the Collection, Transportation and Disposal of Domestic Solid Wastes and General City Cleaning in the City of İstanbul	Fresenius Environmental Bulletin, Vol. 21, No 4, pp. 908-917, 2012
10	Ş. Yıldız, C. Yaman, G. Demir, H.K. Özcan, A. Çoban, H. E. Ökten, K. Sezer, and S. Gören	Characterization of Municipal Solid Waste in Istanbul, Turkey	Environmental Progress; Sustainable Energy, Volume 32, Issue 3, pages 734–739, 2012
9	C. Yaman, H.K. Özcan, G. Demir, H. E. Ökten, Ş. Yıldız, A. Çoban, and V. Balahorli	Landfill Leachate Treatment: A Case Study for Istanbul City	Clean-Soil, Air, Water, pp. 1-7, 2012
8	S. Gören, G. Demir, C. Yaman, and A. Yıldız	Medical Waste Management by Geographical Region in Turkey	Journal of Residuals Science Technology, Vol.8, No.3, pp. 109-115, 2011
7	C. Yaman	Evaluation of the Current Condition of Packaging Wastes Throughout İstanbul	Scientific Research and Essays. Volume 6(16), pp. 3378-3388, 2011
6	C. Yaman, F. Karaca, E. N. Korkut, J. P. Martin, and Ö. Çınar	Selection of Optimum Operational Conditions for the Treatment Performance of	Fresenius Environmental Bulletin, Vol. 19, No 11, pp. 2587-2596, 2010



		Geotextile Biofilters using Artificial Neural Networks	
5	Ö. Çınar, K. Demiröz, G. Kanat, Y. Uysal, and C. Yaman	The Effect of Oxygen on Anaerobic Color Removal of Azo Dye in a Sequencing Batch Reactor	Clean- Air, Soil, Water, Vol. 37, No. 8, pp. 657-662, 2010
4	H. Hasar, S. Ünsal, U. İpek, S. Karataş, Ö. Çınar, C. Yaman, and C. Kınacı	Stripping/Flocculation/Membrane Bioreactor/Reverse Osmosis Treatment of Municipal Landfill Leachate	Journal of Hazardous Materials, Vol. 171, pp. 309-317, 2009
3	C. Yaman, J. P. Martin, and E. N. Korkut	Effects of Wastewater Filtration on Geotextile Permeability	Geosynthetics International, No 3, Vol. 13, pp. 87-97, 2006
2	Korkut, E. N., Martin, J. P., and C. Yaman	Wastewater Treatment with Biomass Attached to Porous Geotextile Baffles	Journal of Environmental Engineering, ASCE, Vol. 132, Issue 2, pp. 284-288, 2006
1	C. Yaman, J. P. Martin, and E. N. Korkut	Use of Layered Geotextiles to Provide a Substrate for Biomass Development in Treatment of Septic Tank Effluent Prior to Ground Infiltration	Journal of Environmental Engineering, ASCE, Vol. 131, Issue 12, pp. 1667-1675, 2005

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
30	C. Yaman and Y. Kucukaga	Performance of NiO/YSZ anode-supported solid oxide fuel cell fueled with landfill gas stream.	E3S Web of Conferences ICSF 2020 166, 04007 (2020), 20-22 May 2020. Ukraine.
29	C. Yaman and A.B. Yaman	“Greenhouse gas emissions resulting from medical waste collection and transport.”	5th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB), 9-11 August 2020, Kuala Lumpur, Malaysia.



28	C. Yaman and A.B. Yaman	“Projection of Greenhouse Gas Emissions from Waste Sector,”.	International Conference on Innovative Applied Energy (IAPE’20), 15-16 Sept 2020, Cambridge, United Kingdom
27	C. Yaman	“Accelerated composting of cattle manure by using special bacteria and enzyme mixture,”	International Conferences on Engineering and Natural Science (ICENS), 12-16 June 2019, Prague, Czech Republic.
26	C. Yaman	“Designing Dry Fermentation Process to Generate 1 MW Electricity by Using Organic Waste-A Theoretical Study for Dammam, Saudi Arabia,”	International Conferences on Engineering and Natural Science (ICENS), 6-7 August 2019, Pattaya, Thailand.
25	C. Yaman, I. Anil, O. Aga	Sustainable approaches for alternative clean energy in KSA	Clean Energy and Sustainability Forum, Saudi Electric, Dammam, 2018
24	C. Yaman, Y. Küçükağa, G. Delice, B. Pala	Improving Leachate Quality and Landfill Gas Production in Pilot Scale Landfill Bioreactors Containing Sewage Sludge and Geotextile Biofilters	WEFTEC2018, New Orleans, LA, USA, 2-7 October, 2018
23	T. Y. Nayır, S. Kara, A. Akyol, C. Yaman	Electrooxidation of industrial and domestic wastewaters by various electrodes	3rd International Conference on Environmental Science and Technology, Budapest, 2017
22	C. Yaman, G. Delice, B. Pala, Y. Küçükağa, S. Kara, A. Akyol	Variation of Leachate Quality in Pilot Scale Landfill Bioreactors Containing Municipal Solid Waste and Sewage	3rd International Conference on Environmental Science and Technology, Budapest, 2017
21	C. Yaman, G. Delice, B. Pala, Y. Küçükağa, S. Kara, A. Akyol	Landfill Gas Production in Landfill Bioreactors Containing Municipal Solid Waste and Sewage Sludge	3rd International Conference on Environmental Science and Technology, Budapest, 2017
20	Y. Küçükağa, C. Yaman, B. Pala, G. Delice	Using Geotextile Filter as Biofilm Media in Anaerobic Landfill Bioreactor	5th International Conference on Sustainable Solid Waste Management, Athens, Greece, 2017
19	G. Delice, B. Pala, Y. Küçükağa, C. Yaman	Pilot Scale Anaerobic Landfill Bioreactor Operation” (Poster presentation)	International Conference on Sustainable Development, Skopje, Macedonia, 2016
18	S. Kara, T. Yılmaz Nayır, A. Akyol, C. Yaman	Electrooxidation of Pretreated Transport Container Washing Wastewater	International Conference on Environmental Science and



			Technology, Belgrade, Serbia, 2016
17	A. Akyol, A. Karaoğlu, S. Kara, C. Yaman	Effect of the Anode Electrode on Paracetamol Removal in the Electrooxidation-Ultrasound Hybrid Process	International Conference on Environmental Science and Technology, Belgrade, Serbia, 2016
16	C. Yaman, Y. Küçükağa, A. Akyol, S. Kara	Biogas Efficiency, Leachate Quality and Waste Stabilization in Anaerobic Landfill Bioreactors	International Conference on Environmental Science and Technology, Belgrade, Serbia, 2016
15	Küçükağa Y., C. Yaman, Delice G., Pala B.	Operational Start-Up of Lab-Scale Anaerobic Landfill Bioreactor	International Conference on Engineering and Natural Science, Sarajevo, Bosnia and Herzegovina, 2016
14	C. Yaman, Küçükağa Y., Pala B., Delice G.	Operating Landfills as Bioreactor by Recirculating Leachate	EurAsia-2016 Waste Management Symposium, Istanbul, Turkey, 2016
13	C. Yaman, Korkut N.E., Küçükağa Y.	Designing of Geotextile Baffle Contact Systems (GBCS) for the Treatment of First Flush of Stormwater Runoff	International Conference on Environmental Science and Technology, Sarajevo, Bosnia and Herzegovina, 2015
12	K. Kaya, C. Yaman, and Ş. Yıldız	Waste to Energy Solution for İstanbul's Solid Waste Management	Eurasia Waste Management Symposium, İstanbul, April 2014, pp 1-9 Istanbul, Turkey, 2014
11	C. Yaman, T. Eroğlu, İ. Öktem, B. Taşkınoğlu, E. Fakihoğlu, and Y. Işık	Solid Waste Management-Legal Status and Istanbul Model	Istanbul International Solid Waste, Water and Wastewater Congress, Haliç Congress Center, pp. 141-152 Istanbul, Turkey, 2013
10	C. Yaman, T. Eroğlu, İ. Öktem, and B. Taşkınoğlu	Medical Waste Management-Medical Waste Disposal in Istanbul	Istanbul International Solid Waste, Water and Wastewater Congress, Haliç Congress Center, pp. 141-152 Istanbul, Turkey, 2013
9	C. Yaman, O. Sevimoğlu, Ş. Yıldız, and K. Kaya	Necessity of Waste Incineration and Power Plants in Istanbul Solid Waste Management	Istanbul International Solid Waste, Water and Wastewater Congress, Haliç Congress Center, pp. 141-152 Istanbul, Turkey, 2013
8	C. Yaman, Ş. Yıldız, O. Sevimoğlu, H. Çinal, V. Balahorli,	Researching of Pollution Level of Golden Horn-Istanbul 2012	Istanbul International Solid Waste, Water and Wastewater Congress, Haliç Congress



	F. Hoşoğlu, and E. Tezcan		Center, pp. 141-152 Istanbul, Turkey, 2013
7	C. Yaman, B. Taşkınoğlu, Y. Işık, E. Fakihoğlu, and I. Tanuğur	Waste Reception from Ships, Treatment and Recovery of the Wastes: İstanbul Model	Eurasia Waste Management Symposium, İstanbul, pp. 1-10 Istanbul, Turkey, 2011
6	C. Yaman, A. Günay, and Y. Bayer	The Business Economics of the Composting Process in the Removal of Waste; As the Sample Istanbul Recycle and Composting Plant	Eurasia Waste Management Symposium, pp. 1-6 Istanbul, Turkey, 2011
5	C. Yaman	Proposed Design Criteria for Geotextile Biofilters	Geosynthetics 2007, IFAI, Washington, DC, USA, 2007
4	C. Yaman, Martin, J. P., Korkut, E.	Geotextiles as Biofilters for Wastewater Treatment	North American Geosynthetics Society (NAGS)/GRI 19, Las Vegas, NV USA, 2005
3	Korkut, E., C. Yaman, Martin, J. P.	“Treatment of Run-Off Using the Geotextile Baffle Contact System	North American Geosynthetics Society (NAGS)/GRI 19, Las Vegas, NV USA, 2005
2	Korkut, E., C. Yaman, and Marino, R.	Treatment of Combined Sewer Overflows Using the Geotextile Baffle Contact Method,	Proceedings of the PA Stormwater Management Symposium held at Villanova University, Villanova, PA USA, 2003
1	C. Yaman, Marino, R., and Korkut, E.	Groundwater Recharge of Urban Runoff after Biological Treatment in Geotextile Filters	Proceedings of the PA Stormwater Management Symposium held at Villanova University, Villanova, PA USA, 2003

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	C. Yaman, G. Delice, B. Pala, Y. Küçükkağa, S. Kara, A. Akyol	Pilot-scale Bioreactor landfills containing sewage sludge and geotextile filters	2016
	C. Yaman, G. Delice, B. Pala, Y. Küçükkağa, S. Kara, A. Akyol	Geotextile layered lab-scale bioreactor landfills for LFG production and leachate treatment	2018



Current Researches

#	Research Title	Name of Investigator(s)
2	Laboratory Scale In-Situ Petroleum Hydrocarbon Bioremediation by using Geotextile filter, Bacteria and Nutrients	C. Yaman, I. Anil, O. Aga, S. Rehman, E. Cevik, N. Blaisi
1	Pilot Scale Bio-filter: Control of Odor and Greenhouse Gases from Landfills	O. Aga, I. Anil, C. Yaman

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Istanbul International Solid Waste, Water and Wastewater Congress	Haliç Congress Center, Istanbul Turkey, 2013	Leading member of the organizing committee

Membership of Scientific and Professional Societies and Organizations

- Water Environment Federation (WEF)
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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Environmental Impact Assessment	ENVE 503	Credit: 3
	Introduction to Geotechnical and Geoenvironmental Engineering	ENVE 452	Credit: 2
	Environmental Law & Regulation	HUMN 512	Credit: 3
	Energy and Environment	ENRG 412	Credit: 3
	Introduction to Engineering	ENG 251	Credit: 2
	Solid and Hazardous Waste Management	ENVE 462	Credit: 3



Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

ENVE 503 Environmental Impact Assessment

Assessing the potential impacts of major developments on the environment in its broadest sense. Applying EIA to new infrastructure projects, such as power plants, highways, pipelines, dams, mines, airports, incinerators and landfills. Specialist areas of EIA application include water quality, minerals, waste, hydrology, air quality, landscape, visual impact, ecology, community and socio-economic aspects. The course is genuinely interdisciplinary, with involvement from staff from several departments and external speakers from industry and government.

ENVE 452: Introduction to Geotechnical and Geoenvironmental Engineering

Conventional saturated soil mechanics to unsaturated soil behavior, rock mechanics, hydrogeology and geosynthetics. Geoenvironmental Problem Identification and Risk Management; Physicochemistry of Soils for Geoenvironmental Engineering; Contaminant Hydrogeology; Barrier Systems; Geosynthetics in Liquid-Containing Structures; Covers for Waste; Monitoring of Contaminants and Consideration of Risk; In-situ, Containment and Treatment of Contaminated Soil and Groundwater; Management of Contaminated Soil in Engineering Construction.

ENVEN 605: Water Resources Management and Planning

Water sources connectivity. Water resources planning and management. Case studies (wastewater treatment, uses: agricultural, urban, industrial, mining, rural, remote communities). Transboundary water management. IWRM. Water infrastructure design and operation. Water market.

HUMN 512: Environmental Laws and Regulations

Principles of environmental legislation. Obligations under environmental legislation. The Environmental Protection Act. Appropriate and realistic environmental management model through environmental law and regulations. To support the idea of sustainable development via environmental laws and regulations. Saudi Arabian Environmental Laws and Regulations. Environmental Ethics

ENG 251: Introduction to Engineering

Introduction to Engineering

EE 425: Energy and Environment



This course studies some management aspects of atmospheric energy, resources, manufacturing, transportation and production of food in the context of natural resources, sustainable practices, and human health. Energy and climate change effect on the environment will be covered. For the initial half, lectures and reading material will be provided to the students with a detailed introduction to the impacts of conventional and renewable energy production and consumption on the natural environment, health, economics and their related management structures. Following the midterm examination, students will be exposed to new transportation technologies, main causes of air pollution, impacts of international commerce, sustainable manufacturing and industrial ecology basics, green buildings, energy management and sustainable food production.

ENVE 462 Solid and Hazardous Waste Management

Introduction to solid and hazardous wastes. Disposal of solid wastes. Types of hazardous wastes. Hazardous wastes and health impacts. Fate of hazardous wastes. Handling of hazardous wastes. Regulations for managing hazardous wastes. Environmental programs for hazardous wastes management. Case studies.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Water Resources Management and Planning	ENVEN 605	Credit: 3

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Water sources connectivity. Water resources planning and management. Case studies (wastewater treatment, uses: agricultural, urban, industrial, mining, rural, remote communities). Transboundary water management. IWRM. Water infrastructure design and operation. Water market.
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Course Coordination

#	Course Title and Code	Coordinati on	Co-coordination	Undergr ad.	Postgrad .	From	To
	ENVE 503	Cevat Yaman		Yes		2018	
	ENVE 452	Cevat Yaman		Yes		2018	



HUMN 512	Cevat Yaman		Yes		2020	
ENRG 412	Cevat Yaman		Yes		2019	
ENG 251	Cevat Yaman		Yes		2020	
ENVEN 605	Cevat Yaman			Yes	2020	
ENVE 462	Cevat Yaman		Yes		2018	

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
	5	25	2020	

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
	Gulsah Delice, MSc	Effect of Biogas Production and Codisposal of Municipal Solid Waste and Sewage Sludge in a Recirculated Landfill Bioreactor	Gebze Technical University TURKEY	2018
	Yusuf Kucukaga, MSc	Effect of Geotextile Layer on Leachate Quality in Recirculated Landfill Bioreactor	Gebze Technical University TURKEY	2017



Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
	DSR	Laboratory Scale In-Situ Petroleum Hydrocarbon Bioremediation by using Geotextile filter, Bacteria and Nutrients	Imam Abdulrahman Bin Faisal University	2019 - 2021

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization

Committee Membership

#	From	To	Position	Organization
	2018		Member of the Quality and Accreditation Committee (CoE)	Imam Abdulrahman Bin Faisal University
	2018		Member of the Recruitment Committee (CoE)	Imam Abdulrahman Bin Faisal University

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
	2016	2018	Kocaeli Metropolitan Municipality, Department of Environmental Protection, TURKEY	Part-time

Volunteer Work



#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Greenhouse Gas models: EPA, IPCC, EPE
2	

Last Update

04/01/2021