

# Prof. Mustafa Talha GÖNÜLLÜ

## Personal Information

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## Research Areas

Environmental Engineering, Environmental Technology, Industrial and Hazardous Waste Management, Noise Pollution Control, Solid Waste Engineering and Management, Hazardous Waste Management, Soil and Groundwater Pollution and Control, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Construction, Department Of Environmental Engineering, 2020 - Continues

Professor, Adiyaman University, Faculty Of Engineering, Department Of Environmental Engineering, 2015 - 2020

Professor, Yildiz Technical University, Faculty Of Construction, Department Of Environmental Engineering, 2003 - 2013

Associate Professor, Yildiz Technical University, Faculty Of Construction, Department Of Environmental Engineering, 1992 - 2003

## Academic and Administrative Experience

Rector, Adiyaman University, Rectorate, 2011 - 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Modeling of biogas production from cattle manure with co-digestion of different organic wastes using an artificial neural network**  
Tufaner F., AVŞAR Y., Gonullu M. T.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.19, no.9, pp.2255-2264, 2017 (Journal Indexed in SCI)
- II. **Optimization of treatment leachates from young, middle-aged and elderly landfills with bipolar membrane electro dialysis**  
İlhan F., Guvenc S., Avşar Y., Kurt U., Gonullu M. T.  
ENVIRONMENTAL TECHNOLOGY, vol.38, no.21, pp.2733-2742, 2017 (Journal Indexed in SCI)
- III. **Recovery of mixed acid and base from wastewater with bipolar membrane electro dialysis-a case study**  
İlhan F., Kabuk H. A., Kurt U., Avşar Y., Gonullu M. T.  
DESALINATION AND WATER TREATMENT, vol.57, no.11, pp.5165-5173, 2016 (Journal Indexed in SCI)
- IV. **Investigation of Leachate Treatment with Electrocoagulation and Optimization by Response Surface Methodology**  
Kabuk H. A., İlhan F., Avşar Y., Kurt U., Apaydın Ö., Gonullu M. T.  
CLEAN-SOIL AIR WATER, vol.42, no.5, pp.571-577, 2014 (Journal Indexed in SCI)

- V. **Evaluation of treatment and recovery of leachate by bipolar membrane electro dialysis process**  
 İlhan F., Kabuk H. A. , Kurt U., Avşar Y., Sari H., Gönüllü M. T.  
 CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.75, pp.67-74, 2014 (Journal Indexed in SCI)
- VI. **ROUTE TIME ESTIMATION OF SOLID WASTE COLLECTION VEHICLES BASED ON POPULATION DENSITY**  
 Apaydın Ö., Gönüllü M. T.  
 GLOBAL NEST JOURNAL, vol.13, no.2, pp.162-169, 2011 (Journal Indexed in SCI)
- VII. **A statistical evaluation of the potential genotoxic activity in the surface waters of the Golden Horn Estuary**  
 Kocak E., Yetilmezsoy K., Gonullu M. T. , Petek M.  
 MARINE POLLUTION BULLETIN, vol.60, no.10, pp.1708-1717, 2010 (Journal Indexed in SCI)
- VIII. **The influence of indoor acoustical parameters on student perception in classrooms**  
 AVŞAR Y., Gonullu M. T.  
 NOISE CONTROL ENGINEERING JOURNAL, vol.58, no.3, pp.310-318, 2010 (Journal Indexed in SCI)
- IX. **An Investigation on the Treatment of Tannery Wastewater by Electrocoagulation**  
 GÖNÜLLÜ M. T.  
 Global Nest Journal, vol.11, no.4, pp.546-555, 2009 (Journal Indexed in SCI Expanded)
- X. **AN INVESTIGATION ON THE TREATMENT OF TANNERY WASTEWATER BY ELECTROCOAGULATION**  
 Apaydın Ö., Kurt U., Gönüllü M. T.  
 GLOBAL NEST JOURNAL, vol.11, no.4, pp.546-555, 2009 (Journal Indexed in SCI)
- XI. **Decolorization and COD reduction of UASB pretreated poultry manure wastewater by electrocoagulation process: A post-treatment study**  
 Yetilmezsoy K., İlhan F., Sapci-Zengin Z., Şakar S., Gonullu M. T.  
 JOURNAL OF HAZARDOUS MATERIALS, vol.162, no.1, pp.120-132, 2009 (Journal Indexed in SCI)
- XII. **Co-composting kinetics of rose processing waste with OFMSW**  
 Tosun İ., Gonullu M. T. , Arslankaya E., Gunay A.  
 BIORESOURCE TECHNOLOGY, vol.99, no.14, pp.6143-6149, 2008 (Journal Indexed in SCI)
- XIII. **Treatment of leachate by electrocoagulation using aluminum and iron electrodes**  
 İlhan F., Kurt U., Apaydın Ö., Gonullu M. T.  
 JOURNAL OF HAZARDOUS MATERIALS, vol.154, pp.381-389, 2008 (Journal Indexed in SCI)
- XIV. **Emission control with route optimization in solid waste collection process: A case study**  
 Apaydın Ö., Gönüllü M. T.  
 SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.33, no.2, pp.71-82, 2008 (Journal Indexed in SCI)
- XV. **Treatment of domestic wastewater by electrocoagulation in a cell with Fe-Fe electrodes**  
 KURT U., Gonullu M. T. , İLHAN F., Varınca K.  
 ENVIRONMENTAL ENGINEERING SCIENCE, vol.25, no.2, pp.153-161, 2008 (Journal Indexed in SCI)
- XVI. **Comparison of classical chemical and electrochemical processes for treating rose processing wastewater**  
 Avşar Y., Kurt U., Gönüllü M. T.  
 Journal Of Hazardous Materials, vol.148, pp.340-345, 2007 (Journal Indexed in SCI Expanded)
- XVII. **Reduction of COD in wastewater from an organized tannery industrial region by Electro-Fenton process**  
 Kurt U., Apaydın Ö., Gönüllü M. T.  
 Journal Of Hazardous Materials, vol.143, pp.33-40, 2007 (Journal Indexed in SCI Expanded)
- XVIII. **Route optimization for solid waste collection: Trabzon (turkey) case study**  
 Apaydın Ö., Gönüllü M. T.  
 GLOBAL NEST JOURNAL, vol.9, no.1, pp.6-11, 2007 (Journal Indexed in SCI)
- XIX. **Recent years status of sediment bed of Golden Horn (Istanbul) after year 1999**  
 GÖNÜLLÜ M. T. , Avsar Y., Apaydin O., Bayhan H., Kurt U.

- ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.121, pp.561-569, 2006 (Journal Indexed in SCI)
- XX. **Treatability of Water-Based Paint Wastewater with Fenton Process in Different Reactor Types**  
GÖNÜLLÜ M. T.  
CHEMOSPHERE, vol.64, pp.1536-1540, 2006 (Journal Indexed in SCI Expanded)
- XXI. **Primary Productivity in the Golden Horn**  
Gönüllü M. T. , Avşar Y., Bayhan H., Şakar S., Arslankaya E., Apaydın Ö., Kurt U.  
Environmental Monitoring And Assessment, vol.109, pp.57-64, 2005 (Journal Indexed in SCI Expanded)
- XXII. **Determination of Safe Distance between Roadway and Buildings to Get Acceptable School Outdoor Noise Level by Using Noise Barriers**  
Avşar Y., Gönüllü M. T.  
Building And Environment, vol.40, pp.1255-1260, 2005 (Journal Indexed in SCI Expanded)
- XXIII. **Effects of Residual Configuration on the Rate of Trichloroethylene (TCE) Dissolution**  
GÖNÜLLÜ M. T.  
WATER SCIENCE AND TECHNOLOGY, vol.30, no.7, pp.19-22, 2004 (Journal Indexed in SCI Expanded)
- XXIV. **Anaerobic digestion and methane generation potential of rose residue in batch reactors**  
Tosun I., Gonullu M., Gunay A.  
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.39, no.4, pp.915-925, 2004 (Journal Indexed in SCI)
- XXV. **A study of organics and their alteration in benthic sediments of golden horn**  
Gönüllü M. T. , Bayhan H., Avşar Y., Arslankaya E., Kurt U., Tosun İ., Apaydın Ö.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.12, no.12, pp.1457-1464, 2003 (Journal Indexed in SCI)
- XXVI. **Laboratory and Controlled Field Experiments Using Potassium Permanganate to Remediate Trichloroethylene and Perchloroethylene DNAPLs in Porous Media**  
Schnarr M., Truax C., Farquhar G., Hood E., Gönüllü M. T. , Stickney B.  
Journal Of Contaminant Hydrology, vol.29, no.3, pp.203-222, 1998 (Journal Indexed in SCI Expanded)
- XXVII. **Modelling dissolution of an organic mixture in the subsurface**  
GÖNÜLLÜ M. T.  
WATER RESEARCH, vol.30, no.3, pp.649-653, 1996 (Journal Indexed in SCI)
- XXVIII. **Estimation of T-90 and bacterial die-off rate values in the Antalya Bay of Turkey**  
ARAL N., Gonullu M. T. , Saral A.  
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-ENVIRONMENTAL SCIENCE AND ENGINEERING & TOXIC AND HAZARDOUS SUBSTANCE CONTROL, vol.30, no.10, pp.2255-2262, 1995 (Journal Indexed in SCI)
- XXIX. **ANALYTICAL MODELING OF ORGANIC CONTAMINANTS IN LEACHATE**  
GÖNÜLLÜ M. T.  
WASTE MANAGEMENT & RESEARCH, vol.12, no.2, pp.141-150, 1994 (Journal Indexed in SCI)
- XXX. **Analytical Modelling of Organic Contaminants in Leachate**  
GÖNÜLLÜ M. T.  
WASTE MANAGEMENT & RESEARCH, vol.12, pp.141-150, 1994 (Journal Indexed in SCI Expanded)
- XXXI. **AERATION BY CONVENTIONAL CASCADES IN ARID WEATHER**  
ARAL N., GONULLU M.  
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-ENVIRONMENTAL SCIENCE AND ENGINEERING & TOXIC AND HAZARDOUS SUBSTANCE CONTROL, vol.29, no.9, pp.1749-1759, 1994 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Sızıntı Sularının Evsel Atıksularla Birlikte Eektrokoagülasyon Prosesiyle Arıtılabilirliğinin İncelenmesi**  
Kurt U., İlhan F., Birben N. C. , Ulucan K., Gönüllü M. T.  
Sigma Journal of Engineering and Natural Sciences, vol.3, no.1, pp.55-64, 2011 (Journal Indexed in ESCI)
- II. **Neural Network Modelling of Outdoor Noise Levels in a Pilot Area**

Avşar Y., Saral A., Gönüllü M. T. , Arslankaya E., Kurt U.

Turkish J. Eng. Env. Sci., vol.28, pp.149-155, 2004 (Journal Indexed in ESCI)

- III. **Istanbul'da Evsel Zararlı Atık Potansiyelinin Araştırılması. Ekoloji(16), 31-34**  
GÖNÜLLÜ M. T.  
EKOLOJİ, no.16, pp.31-34, 1995 (Other Refereed National Journals)

## **Books & Book Chapters**

- I. **Endüstriyel Kirlenme Kontrolü**  
GÖNÜLLÜ M. T.  
Birsen, 1

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Effects on Plant Growth of Biogas Producer Outflow Water**  
Tufaner F., AVŞAR Y., Dere T., Özbeyaz A., GÖNÜLLÜ M. T.  
2nd ASM International Workshop of Composting and Biogas Technologies Abstract & Proceeding, Antalya, Turkey, 16 November 2017, pp.13
- II. **Membran Prosesler İçerisinde Elektrodializ Prosesi, Mekanizması ve Uygulama Alanları**  
İLHAN F., GÖNÜLLÜ M. T. , AVŞAR Y., KURT U., KABUK H. A.  
, International Sustainable Water and wastewater Management Symposium, Konya, Turkey, 26 October 2010, pp.853-860
- III. **Treatment of COD, TOC and Color by Electrocoagulation Process from Textile Wastewaters**  
İLHAN F., VARINCA K. B. , GÖNÜLLÜ M. T. , KASAR C.  
International Sustainable Water and wastewater Management Symposium, Konya, Turkey, 27 October 2010, pp.669-677
- IV. **Investigation on treatment of leachate by nanofiltration**  
İLHAN F., KABUK H. A. , GÖNÜLLÜ M. T.  
IWA Regional Conference And Exhibition on Membrane Technology and Water Reuse, İstanbul, Turkey, 18 October 2010, pp.692
- V. **Electrodialysis in Membrane Processes, Mechanism and Applications**  
GÖNÜLLÜ M. T.  
International Sustainable Water and wastewater Management Symposium, 01 October 2010
- VI. **Optimization of organic pollutants removal by electrocoagulation with iron electrodes**  
İLHAN F., ARSLANKAYA E., GÖNÜLLÜ M. T. , KURT U., APAYDIN Ö.  
1. International Workshop on Application of Redox Technologies in the Environment, İstanbul, Turkey, 14 September 2009, pp.116-120
- VII. **Optimization of COD NH3 N and Color Removal by Electrooxidation Processes from Middle Aged Landfill Leachate**  
İLHAN F., ARSLANKAYA E., GÖNÜLLÜ M. T. , KURT U., APAYDIN Ö.  
1st International Workshop on Application of Redox Technologies in the Environment, 2009, İstanbul, 01 September 2009
- VIII. **Genotoxic Characterization of Golden Horn Surface Water By Using SOS Chromotest**  
KOÇAK E., GÖNÜLLÜ M. T.  
UCS 2009, International Symposium On Environment, Kirgızistan, Bishkek, UCS 2009, Bishkek, Kyrgyzstan, 20 - 23 May 2009, pp.1-9
- IX. **Genotoxic Characterization of Golden Horn Surface Water By Using SOS Chromotest**  
GÖNÜLLÜ M. T.  
International Symposium On Environment,, 01 May 2009

- X. **Investigation of Chemical and Genotoxic Characterization of Golden Horn Surface Water by Using SOS Chromotest**  
GÖNÜLLÜ M. T.  
Cairo 11th International Conference on Energy & Environment, 01 March 2009
- XI. **Water Recycling, Reduce and Reuse**  
GÖNÜLLÜ M. T.  
5th World Water Forum, 01 March 2009
- XII. **A research on using ph, conductivity and temperature at electrocoagulation Process control**  
GÖNÜLLÜ M. T. , ARSLANKAYA E., İLHAN F., KURT U., APAYDIN Ö.  
Middle East Waste, Recycling And Environmental Management Congress, Dead Sea, Jordan, 17 February 2008, pp.19
- XIII. **Optimization of color and removal from leachate by electro coagulation treatment**  
GÖNÜLLÜ M. T. , ARSLANKAYA E., İLHAN F., KURT U., APAYDIN Ö.  
Middle East Recycling, Waste & Environmental Management Exhibition & Congress, 7 - 09 February 2008
- XIV. **Treatment of Leachate by Electrocoagulation and Electrooxidation Processes**  
İlhan F., Apaydın Ö., Kurt U., Arslankaya E., Gönüllü M. T.  
Third International Conference on Environmental Science and Technology, Texas, United States Of America, 9 - 11 August 2007, pp.198-204
- XV. **Elektrokimyasal Arıtım ve Uygulama Alanları Katı Atık Sızıntı Suyu Çalışması Örneği**  
İLHAN F., KURT U., APAYDIN Ö., ARSLANKAYA E., GÖNÜLLÜ M. T.  
Türkiye Katı Atık Yönetimi Sempozyumu, Haz 2007, İstanbul, Turkey, 30 June 2007
- XVI. **An Investigation on Outdoor Noise Levels in The Tuzla Shipyards Region in İstanbul**  
APAYDIN Ö., AVŞAR Y., GÖNÜLLÜ M. T.  
Conf. on Environment: Survival and Sustainability, 7 - 09 February 2007
- XVII. **A Research on Treatability of Leather Industry Wastewater by Electro-Fenton Process**  
GÖNÜLLÜ M. T.  
IULTCS II. Eurocongress, Innovation and New Technologies for the Future of Global Leather Industry, 01 May 2006
- XVIII. **2003 Year Status in Primary Productivity of Golden Horn**  
ŞAKAR S., AVŞAR Y., APAYDIN Ö., GÖNÜLLÜ M. T.  
12th International Symposium on Environmental Pollution and Its Impact on Life in Mediterranean Region, Ant, Turkey, 6 - 08 November 2003
- XIX. **reatability by Fenton Oxidation of Water Based Paint Wastewater in Packed Columns and Mixing Reactors**  
GÖNÜLLÜ M. T.  
12th Int. Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 01 October 2003
- XX. **Investigation for Quality Parameters of Compost from Rose Residue and MSW**  
GÖNÜLLÜ M. T.  
12th Int. Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 01 October 2003
- XXI. **Year 2003 Status in Primary Productivity of Golden Horn**  
GÖNÜLLÜ M. T.  
12th Int. Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 01 October 2003
- XXII. **Kinetic Analysis of Composting of Rose Residue Temperature and Reaction Rates**  
GÖNÜLLÜ M. T.  
Int. Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 01 October 2003
- XXIII. **Assessment of Sociologicals Aspect of Separate Collection of Household Solid Waste in Trabzon (Turkey)**  
GÖNÜLLÜ M. T.

- ISWA 2002 World Environmental Congress&Exhibition, 01 July 2002
- XXIV. **Anaerobic Digestion of Residues from Rose Oil Production**  
GÖNÜLLÜ M. T.  
2002 World Environmental Congress&Exhibition, 01 July 2002
- XXV. **Golden Horn Sediment Pollution Characteristics in March 2001**  
GÖNÜLLÜ M. T. , Bayhan H., ARSLANKAYA E., KURT U., AVŞAR Y., Tosun İ., APAYDIN Ö.  
Golden Horn 2001 Symposium, 3-4 May 2001, İstanbul, İstanbul, Turkey, 03 May 2001, vol.1, pp.212-230
- XXVI. **Sızıntı Sularının Fenton Reaksiyonu İle Arıtılabilirliğinin Araştırılması**  
KURT U., GÖNÜLLÜ M. T.  
1. Ulusal Katı Atık Kongresi, 18-21 Nisan 2001, İzmir., Turkey, 18 - 21 April 2001
- XXVII. **Evaluation of Emissions resulting from Power Plant in the Gebze Industrial Area of Turkey**  
GÖNÜLLÜ M. T.  
Open Meeting on Combustion, 01 May 2000
- XXVIII. **Bir Çöp Lizimetresinden Toksik Bileşiklerin (Fenol, Krom ve Bakır) Sızmasının İncelenmesi**  
ARSLANKAYA E., DEBİK E., GÖNÜLLÜ M. T.
- XXIX. **İstanbul'da Evsel Zararlı Atıkların Yönetim Seçenekleri**  
ARSLANKAYA E., GÖNÜLLÜ M. T.
- XXX. **Atıklardan Madde Geri Kazanımında Sosyal ve Teknik Yaklaşımlar**  
ARSLANKAYA E., GÖNÜLLÜ M. T.
- XXXI. **Evsel Zararlı Atıkların Toplanmasında Öncelikler**  
ARSLANKAYA E., GÖNÜLLÜ M. T.
- XXXII. **Gülyagı Sanayi Proses Atıkları Özelliklerinin Belirlenmesi**  
GÖNÜLLÜ M. T. , ARSLANKAYA E.
- XXXIII. **Barbaros Bulvarı Gürültü Düzeyi Tesbit Çalışması**  
ARSLANKAYA E., GÖNÜLLÜ M. T.

## Supported Projects

- GÖNÜLLÜ M. T. , Project Supported by Higher Education Institutions, Akümülatör İmalat Tesisi Arıtma Çamurlarının Çimento ile Katılaştırılmasında Atık/Çimento Oranının Fiziksel Dayanım Üzerine Etkisinin Araştırılması., 2010 - 2014
- GÖNÜLLÜ M. T. , Project Supported by Higher Education Institutions, Atık Akü Solüsyonlarından Elektrodializ Yöntemiyle Asit Geri Kazanımı, 2010 - 2013
- GÖNÜLLÜ M. T. , Project Supported by Higher Education Institutions, Çimento ile Katılaştırılmış Kurşun İçerikli Atıkların Sızma Özelliklerinin Tespiti., 2009 - 2012
- GÖNÜLLÜ M. T. , TUBITAK Project, ŞAFAK TEMİZLİK İNŞAAT San. Tic. Ltd. Şti., Buharlı tip bir tıbbi atık bertaraf tesisinin tasarımı ve pilot tesis uygulaması, 2008 - 2010
- GÖNÜLLÜ M. T. , Project Supported by Higher Education Institutions, Haliç'teki toplam kirliliğin, canlı DNA'sı üzerindeki genotoksik etkilerinin araştırılması., 2008 - 2010
- GÖNÜLLÜ M. T. , Other Supported Projects, Gül İşleme Endüstrisinden Kaynaklanan Posaların Kompostlaşabilirliğinin Araştırılması, 2001 - 2003
- GÖNÜLLÜ M. T. , Other Supported Projects, YTÜ Kütüphane ve Dökümantasyon Daire Başkanlığı Şevket Sabancı Binasının Yapı Biyolojisi ve Yapı Fiziki Açısından İrdelenmesi ve Değerlendirilmesi- Çevre Grubu Çalışmaları, 1999 - 2001
- GÖNÜLLÜ M. T. , Other Supported Projects, İstanbulda Evsel Zararlı Atıkların Toplanmasında ve Taşınmasında Model Yardımıyla Optimizasyon Uygulaması, 1997 - 1999
- GÖNÜLLÜ M. T. , Other Supported Projects, Organik Atıkların Piroolitik Bozundurulması, 1995 - 1997
- GÖNÜLLÜ M. T. , Oceanographic Studies Related To The Marine Sewerage Outfalls, 1991 - 1993

## Citations

Total Citations (WOS):567

h-index (WOS):10