

Assoc. Prof. SEDAT YALÇINKAYA

Personal Information

Office Phone: [+90 216 777 3601](tel:+902167773601) Extension: 3618

Email: sedat.yalcinkaya@marmara.edu.tr

Web: <https://www.sedatyalcinkaya.org/>

International Researcher IDs

ScholarID: N9E_iuwAAAAJ

ORCID: 0000-0003-3062-2698

Publons / Web Of Science ResearcherID: AAF-1136-2020

ScopusID: 41262893500

Yoksis Researcher ID: 266180

Education Information

Doctorate, University of Texas at Austin, School of Engineering, Department of Civil, Architectural and Environmental Engineering, United States Of America 2011 - 2014

Postgraduate, The University of Texas at Austin, School of Engineering, Department of Civil, Architectural and Environmental Engineering, United States Of America 2009 - 2011

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Çevre Mühendisliği, Turkey 2002 - 2007

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Vocational Training, Imagery in Action, ESRI, 2021

Vocational Training, Spatial Data Science: The New Frontier in Analytics, ESRI, 2020

Project Management, Focused Group Training - Proposal development, Avrupa Birliği, 2016

Project Management, AB ve Kalkınma Ajanslarına Proje Yazma, TÜSSİDE, 2016

Vocational Training, Su ve Atık Sudan Numune Alma Eğitimi, Çevre ve Şehircilik Bakanlığı, 2015

Education Management and Planning, Introduction to the Compliance & Ethics Program, Compliance Training Program, The University of Texas at Austin, 2014

Education Management and Planning, IT Security Awareness, Compliance Training Program, The University of Texas at Austin, 2014

Education Management and Planning, Hazardous Waste Management Training, Department of Environmental Health and Safety, The University of Texas at Austin, 2014

Education Management and Planning, Hazard Communication Training, Department of Environmental Health and Safety, The University of Texas at Austin, 2014

Education Management and Planning, Compressed Gases Training, Department of Environmental Health and Safety, The University of Texas at Austin, 2014

Education Management and Planning, Laboratory Safety Training, Department of Environmental Health and Safety, The University of Texas at Austin, 2014

Education Management and Planning, Sexual Misconduct Prevention, Compliance Training Program, The University of Texas at Austin, 2014

Education Management and Planning, Family Educational Rights and Privacy Act, Compliance Training Program, The University of Texas at Austin, 2014

Education Management and Planning, Equal Employment Opportunity, Compliance Training Program, The University of Texas at Austin, 2014

Education Management and Planning, Biological Safety Training, Department of Environmental Health and Safety, The University of Texas at Austin, 2014

Occupational Health and Safety, OHSAS 18001 İş sağlığı ve Güvenliği Bilinçlendirme ve Kuruluş İç Tetkikçisi, Consult Team, 2006

Environment and Sustainability, ISO 14001:2004 Çevre Yönetim Sistemi Bilinçlendirme ve İç Tetkikçi , Consult Team, 2006

Quality Management, ISO 9001:2000 Kalite Yönetim Sistemi Bilinçlendirme ve Kurum İç Tetkikçi, Consult Team, 2006

Dissertations

Doctorate, Mesophilic Anaerobic Co-Digestion of Municipal Wastewater Sludge and Un-dewatered Grease Trap Waste, University of Texas at Austin, School of Engineering, Department of Civil, Architectural and Environmental Engineering, 2014

Postgraduate, Hydrologic Modeling of the Pecos River Basin below Red Bluff Reservoir, The University of Texas at Austin, School of Engineering, Department of Civil, Architectural and Environmental Engineering, 2011

Research Areas

Environmental Modeling, Environmental Management, Solid Waste Engineering and Management, Geographic Information Systems, Environmental Information Systems

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Environmental Engineering, 2022 - Continues

Associate Professor, Izmir Katip Celebi University, Faculty Of Engineering-Architecture, Department Of Civil Engineering, 2021 - 2022

Assistant Professor, Izmir Katip Celebi University, Faculty Of Engineering-Architecture, Department Of Environmental Engineering, 2017 - 2021

Research Assistant, The University of Texas at Austin, School of Engineering, Civil, Architectural and Environmental Engineering, 2012 - 2014

Academic and Administrative Experience

Rector's Advisor, Marmara University, Faculty of Engineering, Environmental Engineering, 2022 - Continues

Assistant Director of the Institute, Izmir Katip Celebi University, Institute Of Science, 2020 - 2021

Head of Department, Izmir Katip Celebi University, Faculty Of Engineering-Architecture, Department Of Environmental Engineering, 2018 - 2021

Advising Theses

Yalçinkaya S., Mekânsal Analiz Yöntemleri İle Bergama Havzası Taşkın Tehlike Haritasının Oluşturulması, Postgraduate,

A.POLAT(Student), 2022

Yalçinkaya S., Spatiotemporal Analysis Framework for Identifying Emerging Hot Spots and Energy Potential from Livestock Manure in Turkey, Postgraduate, B.YÜKSEL(Student), 2022

Yalçinkaya S., A Vehicle Routing Problem Based Scenario Analysis for Optimum Siting of Municipal Solid Waste Transfer Stations, Postgraduate, M.CEREN(Student), 2022

Yalçinkaya S., Urban regeneration projects in squatter settlements, the case of İzmir, Bayraklı urban regeneration project, Postgraduate, M.ÖZKAN(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Radiological Associations between Posterior Edentulism and Condylar Bony Changes: A Retrospective Study**
ALTUN B. D., Bayramov N., YALÇINKAYA S.
Journal of Stomatology, Oral and Maxillofacial Surgery, vol.125, no.2, 2024 (SCI-Expanded)
- II. **Spatiotemporal analysis and mitigation potential of GHG emissions from the livestock sector in Turkey**
YALÇINKAYA S.
Environmental Impact Assessment Review, vol.105, 2024 (SSCI)
- III. **Siting charging stations and identifying safe and convenient routes for environmentally sustainable e-scooter systems**
Altıntasi O., YALÇINKAYA S.
SUSTAINABLE CITIES AND SOCIETY, vol.84, 2022 (SCI-Expanded)
- IV. **A GIS-based multi-criteria decision support model for planning municipal solid waste collection points: A case study of cagdas Neighbourhood, cigli District, Izmir, Turkey**
Yalcinkaya S., Uzer S.
WASTE MANAGEMENT & RESEARCH, vol.40, no.8, pp.1297-1310, 2022 (SCI-Expanded)
- V. **Spatiotemporal analysis framework for identifying emerging hot spots and energy potential from livestock manure in Turkey**
YALÇINKAYA S., Ruhbas Y.
RENEWABLE ENERGY, vol.193, pp.278-287, 2022 (SCI-Expanded)
- VI. **A strategy for the implementation of water-quality-based discharge limits for the regulation of hazardous substances**
Gürsoy Haksevenler B. H., Atasoy-Aytis ., Dilaver M., Yalçinkaya S., Findik-Cinar N., Kucuk E., Plevneli T., Koc-Orhon A., Siltu E., Gucver S. M., et al.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.19, pp.24706-24720, 2021 (SCI-Expanded)
- VII. **Municipal solid waste transfer station planning through vehicle routing problem-based scenario analysis**
Hoke M. C., Yalcinkaya S.
WASTE MANAGEMENT & RESEARCH, vol.39, no.1, pp.185-196, 2021 (SCI-Expanded)
- VIII. **Application of a geographic information system-based fuzzy analytic hierarchy process model to locate potential municipal solid waste incineration plant sites: A case study of Izmir Metropolitan Municipality**
Yalcinkaya S., Kirtiloglu O. S.
WASTE MANAGEMENT & RESEARCH, vol.39, no.1, pp.174-184, 2021 (SCI-Expanded)
- IX. **A spatial modeling approach for siting, sizing and economic assessment of centralized biogas plants in organic waste management**
Yalcinkaya S.
JOURNAL OF CLEANER PRODUCTION, vol.255, 2020 (SCI-Expanded)
- X. **Anaerobic co-digestion of municipal wastewater sludge and un-dewatered grease trap waste for assessing direct feed of grease trap waste in municipal digesters**

Yalcinkaya S., Malina J. F.

INTERNATIONAL BIODETERIORATION & BIODEGRADATION, vol.104, pp.490-497, 2015 (SCI-Expanded)

- XI. **Model development and evaluation of methane potential from anaerobic co-digestion of municipal wastewater sludge and un-dewatered grease trap waste**

Yalcinkaya S., Malina J. F.

WASTE MANAGEMENT, vol.40, pp.53-62, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of land surface temperature heterogeneity in municipal landfills by satellite images**
YALÇINKAYA S., Doğan F.
Environmental Research & Technology, vol.6, no.4, pp.359-370, 2023 (Scopus)
- II. **Investigation of Waste Fires and Spatial Accessibility of Fire Stations in Izmir, Turkey**
Yalçinkaya S., Doğan F., Kaleli H. İ.
Urban Academy, vol.15, no.2, pp.727-741, 2022 (Peer-Reviewed Journal)
- III. **AHP and GIS Based Multi - Criteria Site Suitability Approach for Hospitals in Scope of Sustainable Environmental Planning - Case Study Aliağa, İzmir**
GÖNÜLLÜ SÜTÇÜOĞLU G., YALÇINKAYA S.
JENAS Journal of Environmental and Natural Studies, vol.3, no.3, pp.258-270, 2021 (Peer-Reviewed Journal)
- IV. **Compost Plant Site Selection for Food Waste Using GIS Based Multicriteria Analysis**
YALÇINKAYA S., Uzer S., Kaleli H. İ., Doğan F., Kayalık M.
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.9, no.10, pp.1908-1914, 2021 (Peer-Reviewed Journal)
- V. **Katı Atık Toplama ve Taşıma Sisteminden Kaynaklanan Hava Kirleticileri Emisyonlarının Mekansal Analiz Teknikleri ile Farklı Araç Kapasiteleri için Hesaplanması: İzmir Çiğli Örneği**
YALÇINKAYA S.
JOURNAL OF NATURAL HAZARDS AND ENVIRONMENT, vol.6, no.2, pp.366-376, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of Turkey's Biogas Generation Potential from Livestock Manure via Spatiotemporal Analysis**
YALÇINKAYA S., Ruhbaş Y.
6 Th International Congress On Innovative Scientific Approaches, Samsun, Turkey, 19 December 2021
- II. **A GIS Based Multi-Criteria Decision-Making Analysis for Siting Potential Compost Plants To Recycle Marketplace Waste**
YALÇINKAYA S., Kaleli H. İ., Doğan F., Kayalık M., Uzer S.
Euroasia Summit 4th International Applied Sciences Congress, Odessa, Ukraine, 11 September 2021, pp.53-54
- III. **Katı Atık Yönetiminde Coğrafi Bilgi Sistemleri Uygulamaları**
YALÇINKAYA S.
CUMHURİYET ZİRVESİ 4. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Afyonkarahisar, Turkey, 22 - 24 January 2021, pp.11-12
- IV. **Using Thiessen Polygons Method to Determine the Locations of Potential Waste Collection Points**
YALÇINKAYA S.
Ankara International Congress on Scientific Research - III, Ankara, Turkey, 2 - 04 October 2020, pp.128-129
- V. **MODELING THE LOCATION AND PERFORMANCE OF MUNICIPAL SOLID WASTE TRANSFER STATIONS VIA GIS BASED VRP ANALYSIS**
Höke M. C., YALÇINKAYA S.
1st INTERNATIONAL ANKARA MULTIDISCIPLINARY STUDIES CONGRESS, Ankara, Turkey, 11 - 12 August 2020,

pp.239-240

- VI. **Katı Atık Toplama Yerlerinin Tayini için Coğrafi Bilgi Sistemleri Tabanlı Bir Yöntem Geliştirilmesi**
Uzer S., YALÇINKAYA S.
MAS INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS-ENGINEERING-NATURAL & MEDICAL SCIENCES-XII, İzmir, Turkey, 18 - 19 July 2020, pp.235-236
- VII. **ARAÇ ROTALAMA PROBLEMİ İLE KATI ATIK TOPLAMA SİSTEMİ PERFORMANSININ DEĞERLENDİRİLMESİ**
YALÇINKAYA S.
6th International EUROASIA Congress on Scientific Researches and Recent Trends-6, Baku, Azerbaijan, 18 - 20 May 2020, pp.206
- VIII. **Optimal Siting And Size Of Solid Waste Management Facilities: The Case Study Of Izmir Biogas Plants**
YALÇINKAYA S., KIRTILOĞLU O. S.
4. International Conference on Civil, Environmental, Geology and Mining Engineering, Trabzon, Turkey, 20 - 22 April 2019, vol.1, pp.207
- IX. **Development of a GIS based Multicriteria Decision Support System for Organic Waste Management: Izmir Case Study**
YALÇINKAYA S., KIRTILOĞLU O. S.
4th World Congress on Civil, Structural, and Environmental Engineering, Roma, Italy, 7 - 09 April 2019
- X. **Waste to Watts Anaerobic Co-Digestion of Municipal Wastewater Sludge and Grease Trap Waste**
YALÇINKAYA S., Malina J. F.
EurAsia 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016, pp.286-290
- XI. **Mesophilic Anaerobic Co-Digestion of Municipal Wastewater Sludge with Grease Trap Residuals**
YALÇINKAYA S., Malina J. F.
Residuals and Biosolids Conference 2014, Austin, TX, United States Of America, 18 - 21 May 2014
- XII. **Making Lemonade; Mesophilic Anaerobic Co-Digestion of Municipal Wastewater Sludge with Grease Trap Residuals**
YALÇINKAYA S., Malina J. F.
EURASIA 2014 Waste Management Symposium, İstanbul, Turkey, 28 - 20 April 2014, pp.238-246
- XIII. **Katı Atık Toplama ve Taşıma Optimizasyonu Kâğıthane Örneği**
YILDIZ Ş., Saltabaş F., YALÇINKAYA S., Kemirtlek A.
TURKAY 2009 Sempozyumu, İstanbul, Turkey, 15 - 17 June 2009, pp.17-23

Supported Projects

- Bakay M. E., Yalçinkaya S., H2020 Project, Ufuk 2020 Programı Avrupa Araştırmacılar Gecesi Projesi (Green Night), 2021 - 2022
- Ertürk A., Yalçinkaya S., TUBITAK Project, Manyas Gölü Havzası'nın Yönetimi İçin Bütünleşik Ekosistem Modelleme Odaklı Karar Destek Sisteminin Oluşturulması, 2018 - 2022
- Yalçinkaya S., Kirtiloğlu O. S., TUBITAK Project, Organik Atıkların Yönetimi İçin Coğrafi Bilgi Sistemleri Tabanlı Çok Kriterli Karar Destek Sistemi Oluşturulması: İzmir Örneği, 2018 - 2020
- Atasoy Aytış E., Yalçinkaya S., Municipality, Melen Barajı Havzası Özel Hüküm Belirleme Çalışması Projesi, 2016 - 2019
- Doğan Ö., Yalçinkaya S., Project Supported by Other Official Institutions, Katı Atık Ana Planı ve İl Atık Yönetim Planlarının Hazırlanması Projesi, 2015 - 2017
- Dağlı S., Yalçinkaya S., Project Supported by Other Official Institutions, KATI ATIK TOPLAMA VE BERTARAF MALİYETLERİNİN BÖLGESEL BAZDA BELİRLENMESİ, 2015 - 2017
- Gürsoy Haksevenler B. H., Yalçinkaya S., Project Supported by Other Official Institutions, GÜNLÜK MAKSİMUM TOPLAM YÜK YAKLAŞIMININ GEDİZ HAVZASI'NDA UYGULANMASI PROJESİ KAPSAMINDA TEKNİK DESTEK PROJESİ, 2015 - 2017
- Ayaz S., Yalçinkaya S., Project Supported by Other Official Institutions, Türkiye'de Havza Bazında Hassas Alanların ve Su Kalitesi Hedeflerinin Belirlenmesi Projesi, 2012 - 2015
- Mckinney D. C., Yalçinkaya S., Project Supported by Public Organizations in Other Countries, RIO GRANDE/RIO BRAVO

PHYSICAL ASSESSMENT, 2006 - 2010

Activities in Scientific Journals

Scientific Research Communications, Editor, 2021 - Continues

OMÜ Mühendislik Bilimleri ve Teknolojisi Dergisi, Editor, 2021 - Continues

Memberships / Tasks in Scientific Organizations

Chamber of Environmental Engineers, Member, 2007 - 2018, Turkey

Water Environment Association of Texas, Member, 2014 - 2016, United States Of America

Water Environment Federation, Member, 2014 - 2016, United States Of America

American Water Works Association, Member, 2014 - 2015, United States Of America

American Society of Civil Engineers, Member, 2014 - 2015, United States Of America

Metrics

Publication: 29

Citation (WoS): 95

Citation (Scopus): 99

H-Index (WoS): 5

H-Index (Scopus): 5

Scholarships

Graduate (M.S.&Ph.D.) Fellowship, Ministry of Education, 2008 - 2014

Graduate (M.S.) Fellowship, TUBITAK, 2007 - 2009

Awards

Yalçinkaya S., Excellence in Research Award, Graduate and Industry Networking Event, Graduate Engineering Council At The University Of Texas At Austin, March 2014

Yalçinkaya S., The University Forum Research Award, Water Environment Association Of Texas (Weat), Texas Section American Water Works Association (Awwa), February 2014

Yalçinkaya S., Second Place, Academic Achievement Award, Yıldız Teknik Üniversitesi, October 2007