

Asst. Prof. Duygu ÜLKER

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAD-1671-2020

Yoksis Researcher ID: 271746

Education Information

Doctorate, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, Turkey 2017 - 2022

Postgraduate, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz İşletmeciliği, Turkey 2013 - 2016

Undergraduate, Istanbul University, Mühendislik Fakültesi, Deniz Ulaştırma Ve İşletme Mühendisliği, Turkey 2006 - 2010

Undergraduate, Istanbul University, Mühendislik Fakültesi, Çevre Mühendisliği, Turkey 2005 - 2009

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Other, Bill of Lading, BIMCO WORKSHOP, 2014

Logistics, Brokerlık Eğitimi, Gemi Brokerları Derneği, 2012

Occupational Health and Safety, OHSAS 18001 İş Sağlığı ve Güvenliği Yönetim Sistemi Sertifikası, RYM, 2008

Other, ISO 14001 Çevre Yönetim Sistemi, KASCERT, 2008

Dissertations

Doctorate, KIYI SULARINDA PETROL KİRLİLİĞİ TAŞINIMININ CBS TABANLI MODELLENMESİ, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, 2022

Postgraduate, Kabotaj Hattında Yat Taşımacılığının Maliyet Analizi ve Verimliliği, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz İşletmeciliği, 2016

Research Areas

Environmental Engineering, Environmental Technology, Environmental Management, Pollution Prevention and Waste Reduction, Water Pollution and Control, Marine Sciences and Technology, Coastal Sciences, Coastal Zone Management, Marine Protected Areas, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, 2023 - Continues

Research Assistant PhD, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, 2022 - 2023

Research Assistant, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, 2017 - 2022

Courses

SUSTAINABILITY IN MARITIME INDUSTRY, Doctorate, 2023 - 2024

Kıyı Alanları Yönetimi, Postgraduate, 2023 - 2024

MARINE POLLUTION AND POLLUTANT TRANSPORT MODELING, Doctorate, 2023 - 2024

INTRODUCTION TO COASTAL ENGINEERING, Postgraduate, 2023 - 2024

ENVIRONMENTAL ECONOMICS IN MARITIME INDUSTRY, Postgraduate, 2023 - 2024

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2023

Doctorate, Doctorate, İstanbul Üniversitesi, June, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Ranking willingness to reuse water in cotton irrigation with hybrid MCDM methods: Soke plain case study**
Burak S., Samanlıoğlu F., Ülker D., Kup E. T.
Agricultural Water Management, vol.301, 2024 (SCI-Expanded)
- II. **Evaluation of irrigation methods in Soke Plain with HF-AHP-PROMETHEE II hybrid MCDM method**
Burak S., Samanlıoğlu F., Ülker D.
AGRICULTURAL WATER MANAGEMENT, vol.271, 2022 (SCI-Expanded)
- III. **Mathematical modelling of oil spill weathering processes for contingency planning in Izmit Bay**
ÜLKER D., Burak S., BALAS L., ÇAĞLAR N.
REGIONAL STUDIES IN MARINE SCIENCE, vol.50, 2022 (SCI-Expanded)
- IV. **Assessment and simulation of water transfer for the megacity Istanbul**
Burak S., Bilge A. H., ÜLKER D.
PHYSICAL GEOGRAPHY, vol.43, no.6, pp.784-808, 2022 (SCI-Expanded)
- V. **COMPARATIVE VOYAGE-BASED EVALUATION OF YACHT TRANSFER BY SELF-SAILING AND CARGO VESSEL SHIPMENT - A PILOT STUDY**
ÜLKER D., KOLDEMİR B.
PROMET-TRAFFIC & TRANSPORTATION, vol.33, no.5, pp.755-766, 2021 (SCI-Expanded)
- VI. **COMPUTATION OF MONTHLY RUNOFF COEFFICIENTS FOR ISTANBUL**
Burak S., Bilge A. H., ÜLKER D.
THERMAL SCIENCE, vol.25, no.2, pp.1561-1571, 2021 (SCI-Expanded)
- VII. **A comparative CO2 emissions analysis and mitigation strategies of short-sea shipping and road**

transport in the Marmara Region

Ülker D., Bayırhan İ., Mersin K., Gazioğlu C.

CARBON MANAGEMENT, vol.12, no.1, pp.1-12, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of Anthropogenic Pressure in the Sea of Marmara Considering Mucilage Events**
Deryal G., Ülker D., Burak Z. S.
Turkish Journal of Water Science and Management, vol.7, no.2, pp.1-12, 2023 (Peer-Reviewed Journal)
- II. **Analysis of the Co-integration Between the Number of Cruise Tourists and the World Unemployment Rate**
ARLI E., Saygili M. S., ÜLKER D.
JOURNAL OF ETA MARITIME SCIENCE, vol.11, no.4, pp.242-250, 2023 (ESCI)
- III. **Ship-Generated Waste Management in Istanbul Ports: An Analytical Methodology to Evaluate Waste Reception Performance (WRP)**
ÜLKER D., Göksu S., Yalcin E., Canbulat O.
JOURNAL OF ETA MARITIME SCIENCE, vol.11, no.4, pp.259-269, 2023 (ESCI)
- IV. **The Legal Framework of Water Quality Management in Turkey**
Burak S., Zeki S., Ülker D., Bayırhan İ.
Turkish Journal of Water Science and Management, vol.6, no.1, pp.121-144, 2022 (Peer-Reviewed Journal)
- V. **An Assessment of How the Pandemic Affected the Cruise Tourism**
Arh E., Ülker D.
Tourism and Recreation, vol.3, no.1, pp.18-25, 2021 (Peer-Reviewed Journal)
- VI. **Assessment and Comparison of Commonly Used Eutrophication Indexes**
Ülker D., Bayırhan İ., Burak Z. S.
TURKISH JOURNAL OF WATER SCIENCE & MANAGEMENT, vol.4, no.1, pp.4-30, 2020 (Peer-Reviewed Journal)
- VII. **Socio-economic impacts in a Changing Climate: Case Study Syria**
Ülker D., Ergüven O., Gazioğlu C.
International Journal of Environment and Geoinformatics, vol.5, no.1, pp.84-93, 2018 (Peer-Reviewed Journal)
- VIII. **A Study About Using Animal Waste Generated in Livestock Carriers in Biogas Plants**
ÜLKER D., BURAK Z. S.
Academia Journal of Engineering and Applied Sciences, pp.331-338, 2017 (Peer-Reviewed Journal)
- IX. **A network model simulation proposal for river basin management plans (RBMPs) in Turkey**
Burak Z. S., Bilge A. H., Ülker D.
EUROPEAN WATER, vol.57, pp.231-236, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Thorntwaite's Method for the Computation of the Water Balance**
Burak Z. S., Bilge A. H., Ülker D.
in: Climate Change, Natural Resources and Sustainable Environmental Management, Hüseyin Gökçekuş, Youssef Kassem, Editor, Springer Nature, Zug, pp.339-347, 2022
- II. **Ship born oil pollution in Turkish Straits Sea Area and MARPOL 73/78**
ÜLKER D., BALTAOĞLU S.
in: Oil Spill along the Turkish Straits Sea Area; Accidents, Environmental Pollution, Socio-Economic Impacts and Protection, Ünlü S., Alpar B., Öztürk B., Editor, Tüday, İstanbul, pp.363-370, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Coastal Mapping and Oil Spill Modeling in Gemlik Bay, Turkiye for Emergency Response**
Ülker D., Çelik S., Shahanaghi Y., Çelik O. İ., Zeki S., Gazioğlu C., Yalçın E., Baltaoğlu S., Burak Z. S.
4th Annual Meeting Mediterranean Geosciences Union Annual Meeting (MedGU-24), Barcelona, Spain, 25 - 28 November 2024, pp.1-3
- II. **Assessment of Climate Change Impacts on Bafa Lake: Projected Temperature Trends under SSP585 Scenario**
Ülker D., Shahanaghi Y.
Mediterranean Geosciences 4th Annual Meeting, Barcelona, Spain, 25 - 28 November 2024, pp.1-4
- III. **Marmara Denizi'nde 2021 Mûsilaj Olayından Sonra Mikrobiyal Su Kalitesinin Değerlendirilmesi**
Zeki Stumpfheldt S., Murat Dalkara E., Çelik S., Bayırhan İ., Ülker D., Ünsal Özgüvenç T., Aksu A., Balcıoğlu İlhan E. B., Çardak M., Gazioğlu C.
6. Ulusal Deniz Bilimleri Konferansı, Rize, Turkey, 15 - 17 May 2024, pp.1-2
- IV. **Assessing the Bilateral Impacts in a Changing Climate in terms of Shipping Sector**
Ülker D., Göksu S.
The 14th International Exergy, Energy and Environment Symposium (IEEES-14), İstanbul, Turkey, 24 - 27 December 2023, pp.245-248
- V. **Waste Management on Oil Spill Emergency Response in Turkish Coastal Waters**
Ülker D.
The 14th International Exergy, Energy and Environment Symposium (IEEES-14), İstanbul, Turkey, 24 - 27 December 2023, pp.228-230
- VI. **Evaluation of Oil Spill Modelling within the scope of the Emergency Action Plans**
Ülker D., Burak Z. S.
Marmara Denizi 2022 Sempozyumu, İstanbul, Turkey, 8 - 09 January 2022, pp.1-5
- VII. **Thorntwaite's Method for the Computation of the Water Balance**
Burak S., BİLGE A. H., Ulker D.
5th International Conference on Natural Resources and Sustainable Environmental Management, Nicosia, CYPRUS, 01 November 2021, pp.339-347
- VIII. **Assesment of water quality of Lake Bafa in Turkey**
Ülker D., Savun-Hekimoğlu B., Burak Z. S.
IWA Digital World Water Congress, 24 May - 04 June 2021, pp.1
- IX. **Evaluation of Short-sea Shipping Networks in the Sea of Marmara for the Efficient Earthquake Transportation Emergency Management**
Ülker D.
2nd International Disaster and Resilience Congress: Resilience of/in Megacities, Eskişehir, Turkey, 13 - 15 October 2020, pp.231-235
- X. **Which Effluent Quality for Which Reuse in the Mediterranean Region?**
BURAK Z. S., ÜLKER D.
4th International Conference on Recycling and Reuse, İstanbul, Turkey, 24 - 26 October 2018, pp.122-123
- XI. **Akdeniz Havzası Ülkelerinde Kıyı ve Yüzme Sularında Kirlenme Kontrolünün Değerlendirmesi**
BURAK Z. S., ÜLKER D.
Ulusal Katı Atık Yönetimi Kongresi, Konya, Turkey, 9 - 11 May 2018, pp.19-20
- XII. **BAFA GÖLÜ'NDE KIYI ALANLARI YÖNETİMİ ÇERÇEVESİNDE SORUNLARIN DEĞERLENDİRİLMESİ**
ÜLKER D., BURAK Z. S.
Ulusal Katı Atık Yönetimi Kongresi, Konya, Turkey, 9 - 11 May 2018, pp.1-8
- XIII. **A Study about Using Animal Waste Generated in Livestock Carriers in Biogas Plants**
ÜLKER D., BURAK Z. S.
2nd ASM International Workshop of Composting And Biogas Technologies, Antalya, Turkey, 16 - 18 November 2017, pp.5
- XIV. **A network model simulation proposal for river basin management plans(RBMPs) in Turkey**
BURAK Z. S., Bilge A. H., ÜLKER D.
EWRA 2017- 10TH WORLD CONGRESS ON WATER RESOURCES AND ENVIRONMENT "PANTA RHEI", Atina, Greece,

5 - 09 July 2017, pp.231-236

XV. Teknelerin Gemi ile Taşınmasına Dair Çalışma Haydarpaşa-Fethiye Örneği

ÜLKER D., KOLDEMİR B.

3. Ulusal Deniz Turizmi Sempozyumu, İzmir, Turkey, 26 - 27 February 2016, pp.1-14

Supported Projects

Ülker D., Gazioğlu C., Zeki Stumpfheldt S., Baltaoğlu S., Burak Z. S., Yalçın E., Çelik O. İ., TUBITAK Project, Hydrodynamic and Transport Modelling, Risk Analysis and Response Methods in the Bays of the Marmara Sea for Oil Pollution Emergency Response Planning: İzmit, Gemlik and Bandırma Bays, 2023 - 2025

Zeki S., Ünsal Özgüvenç T., Gazioğlu C., Aksu A., Çardak M., Balcıoğlu E. B., Ülker D., Bayırhan İ., TUBITAK Project, Assessment of Potential Pathogen Occurrence in Sea of Marmara Mucilage and its Effect on Bacterial Biodiversity, 2021 - 2023

Burak Z. S., Ülker D., Gül B., Çağlar N., Taşkın Ö. S., Bayırhan İ., TUBITAK Project, Uv-C Işınlamasının Müsilaj Bertarafı Üzerinde Çevresel Ve Ekonomik Etkisinin Araştırılması (121G021), 2021 - 2023

Burak Z. S., Ülker D., Project Supported by Public Organizations in Other Countries, Innovative Impulses Reducing the Water Footprint of the Global Cotton-Textile Industry towards the UN-Sustainable Development Goals (InoCottonGROW) Grow Soke (FKZ02WGR1422E). German Federal Ministry of Education and Research, 2018 - 2018

Activities in Scientific Journals

International Journal of Environment and Geoinformatics, Assistant Editor/Section Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

International Water Association (IWA), Member, 2017 - Continues

Gemi Brokerları Derneği (GBD), Member, 2011 - Continues

Scientific Refereeing

International Journal of Environment and Geoinformatics, Other Indexed Journal, March 2024

International Journal of Environment and Geoinformatics, Other Indexed Journal, November 2023

MARINE SCIENCE AND TECHNOLOGY BULLETIN, Other Indexed Journal, November 2023

WATER RESOURCES MANAGEMENT, SCI Journal, September 2023

International Journal of Environment and Geoinformatics, Other Indexed Journal, September 2023

International Journal of Environment and Geoinformatics, Other Indexed Journal, July 2023

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, May 2023

TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, SCI Journal, May 2023

International Journal of Environment and Geoinformatics, Other Indexed Journal, April 2023

International Journal of Environment and Geoinformatics, Other Indexed Journal, April 2023

WATER RESOURCES MANAGEMENT, SCI Journal, March 2023

WATER RESOURCES MANAGEMENT, Journal Indexed in SCI-E, September 2022

International Journal of Environment and Geoinformatics, Other Indexed Journal, January 2022

International Journal of Environment and Geoinformatics, Other Indexed Journal, January 2022

International Journal of Environment and Geoinformatics, Other Indexed Journal, November 2021

WATER RESOURCES MANAGEMENT, Journal Indexed in SCI-E, October 2021

International Journal of Environment and Geoinformatics, Other Indexed Journal, October 2021

International Journal of Environment and Geoinformatics, Other journals, August 2021

International Journal of Environment and Geoinformatics, Other Indexed Journal, December 2020
International Journal of Agriculture, Environment and Food Sciences, National Scientific Refreed Journal, December 2020
WATER RESOURCES MANAGEMENT, Journal Indexed in SCI-E, September 2020
International Journal of Environment and Geoinformatics, Other Indexed Journal, March 2020
International Journal of Environment and Geoinformatics, Other Indexed Journal, March 2020
WATER RESOURCES MANAGEMENT, Journal Indexed in SCI-E, February 2020
WATER RESOURCES MANAGEMENT, Journal Indexed in SCI-E, November 2019
International Journal of Environment and Geoinformatics, Other Indexed Journal, November 2019

Metrics

Publication: 33
Citation (WoS): 53
Citation (Scopus): 62
H-Index (WoS): 5
H-Index (Scopus): 4

Congress and Symposium Activities

The 14th International Exergy, Energy and Environment Symposium (IEEES-14), Attendee, İstanbul, Turkey, 2023
5th International Conference on Natural Resources and Sustainable Environment Management, Attendee, Lefkoşa, Cyprus (Kkct), 2021
IWA Digital World Water Congress, Attendee, Kobenhavn, Denmark, 2021
2nd International Disaster and Resilience Congress: Resilience of/in Megacities, Attendee, Eskişehir, Turkey, 2020
Turkish-German Seminar Reducing the Water Footprint of the CottonTextile Value Chain, Moderator, Aydın, Turkey, 2019
9. Ulusal Katı Atık Yönetimi Kongresi, Attendee, Konya, Turkey, 2018
2nd ASM International Workshop of Composting and Biogas Technologies, Attendee, Antalya, Turkey, 2017
10TH WORLD CONGRESS ON WATER RESOURCES AND ENVIRONMENT "PANTA RHEI", Attendee, Athens, Greece, 2017
3. Ulusal Deniz Turizmi Sempozyumu, Attendee, İzmir, Turkey, 2016

Non Academic Experience

Business Establishment Private, Interdolphin Shipping and Agency Co., Operasyon
Business Establishment Private, Kaptan Şirketler Grubu