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International Researcher IDs

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Publons / Web Of Science ResearcherID: L-8420-2014

ScopusID: 6602794608

Yoksis Researcher ID: 221124

Education Information

Doctorate, University of California, Berkeley, Çevre Mühendisliği, United States Of America 2007 - 2012

Postgraduate, University of California, Berkeley, Çevre Mühendisliği, United States Of America 2006 - 2007

Undergraduate Double Major, Istanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 2003 - 2006

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2001 - 2005

Foreign Languages

English, C1 Advanced

German, C1 Advanced

Dissertations

Doctorate, Wetlands as best management practices to mitigate agricultural nonpoint source pollution, University Of California, Berkeley, Çevre Mühendisliği, 2012

Research Areas

Technical Sciences, Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Environmental Modeling, Water Pollution and Control, Soil and Groundwater Pollution and Control

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, İnşaat, Çevre Mühendisliği, 2022 - Continues

Assistant Professor, Istanbul Technical University, İnşaat, Çevre Mühendisliği, 2018 - 2022

Assistant Professor, Istanbul Technical University, İnşaat, Çevre Mühendisliği, 2014 - 2018

Courses

Water Supply and Wastewater Disposal, Undergraduate, 2014 - 2015

Toprak Kirlenmesi ve Kontrolü, Undergraduate, 2014 - 2015

Water Supply and Environmental Sanitation, Undergraduate, 2014 - 2015

Advising Theses

Karpuzcu M. E., Investigation of Grey Water Treatment Performance in A Vertical Subsurface Flow Constructed Wetland, Postgraduate, Ö.FURKAN(Student), 2023

Karpuzcu M. E., Tarım kaynaklı pestisitlerin SWAT ile havza ölçeğinde modellenmesi, Doctorate, F.NİHAN(Student), 2022

Karpuzcu M. E., Gri suların serbest yüzey akışlı yapay sulak alan sistemlerinde arıtım performansının değerlendirilmesi, Postgraduate, A.TAMER(Student), 2022

Karpuzcu M. E., Türkiye'de beyaz eşya sektöründe döngüsel ekonomi yaklaşımları, Postgraduate, M.BAŞKURT(Student), 2020

Karpuzcu M. E., Modelling Küçük Menderes watershed using soil and water assessment tool (SWAT), Postgraduate, M.MATIN(Student), 2019

Karpuzcu M. E., Organofosfatlı Pestisitlerin Meriç-Ergene Havzası'ndaki Sulak Alanlarda Akbetlerinin İncelenmesi, Postgraduate, Ç.Şahin(Student), 2017

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Gebze Teknik Üniversitesi, July, 2017

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Modeling fate and transport of pesticides from dryland agriculture using SWAT model**
Dogan F. N., Karpuzcu M. E.
Journal of Environmental Management, vol.334, 2023 (SCI-Expanded)
- II. **Occurrence of priority substances in urban wastewaters of Istanbul and the estimation of the associated risks in the effluents**
Birtek R. I., Karpuzcu M. E., Ozturk I.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.194, no.6, 2022 (SCI-Expanded)
- III. **Effect of land use change on hydrology of forested watersheds**
Dogan F. N., Karpuzcu M. E.
ECOHYDROLOGY, vol.15, no.1, 2022 (SCI-Expanded)
- IV. **Analysis of Eutrophication Potential in Main Drinking Water Basins of Istanbul**
Karpuzcu M. E., Fakioğlu Kutlu M., Öztürk İ.
CLEAN-SOIL AIR WATER, vol.49, no.4, 2021 (SCI-Expanded)
- V. **Mitigation of organophosphate pesticide pollution in agricultural watersheds**
Sahin C., Karpuzcu M. E.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.710, 2020 (SCI-Expanded)
- VI. **Management of wastewater in rural districts of Istanbul metropolitan municipality**
Karpuzcu M. E., Inci A., Goktas M. H., Öztürk İ.
WATER SCIENCE AND TECHNOLOGY, vol.79, no.11, pp.2079-2085, 2019 (SCI-Expanded)
- VII. **Sources and transport of contaminants of emerging concern: A two-year study of occurrence and spatiotemporal variation in a mixed land use watershed**
Fairbairn D. J., Karpuzcu M. E., ARNOLD W. A., BARBER B. L., KAUFENBERG E. F., KOSKINEN W. C., NOVAK P. J., RICE P. J., SWACKHAMER D. L.

- SCIENCE OF THE TOTAL ENVIRONMENT, vol.551, pp.605-613, 2016 (SCI-Expanded)
- VIII. **Phototransformation of pesticides in prairie potholes: effect of dissolved organic matter in triplet-induced oxidation**
Karpuzcu M. E., MCCABE A. J., ARNOLD W. A.
ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS, vol.18, no.2, pp.237-245, 2016 (SCI-Expanded)
- IX. **Sediment-water distribution of contaminants of emerging concern in a mixed use watershed**
Fairbairn D. J., Karpuzcu M. E., ARNOLD W. A., BARBER B. L., KAUFENBERG E. F., KOSKINEN W. C., NOVAK P. J., RICE P. J., SWACKHAMER D. L.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.505, pp.896-904, 2015 (SCI-Expanded)
- X. **Identifying sources of emerging organic contaminants in a mixed use watershed using principal components analysis**
Karpuzcu M. E., FAIRBAIRN D., ARNOLD W. A., BARBER B. L., KAUFENBERG E., KOSKINEN W. C., NOVAK P. J., RICE P. J., SWACKHAMER D. L.
ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS, vol.16, no.10, pp.2390-2399, 2014 (SCI-Expanded)
- XI. **Biotransformation of chlorpyrifos in riparian wetlands in agricultural watersheds: Implications for wetland management**
Karpuzcu M. E., SEDLAK D. L., Stringfellow W. T.
JOURNAL OF HAZARDOUS MATERIALS, vol.244, pp.111-120, 2013 (SCI-Expanded)
- XII. **Sizing mitigation wetlands in agricultural watersheds**
Stringfellow W. T., Karpuzcu M. E., Spier C., Hanlon J. S., Graham J.
WATER SCIENCE AND TECHNOLOGY, vol.67, no.1, pp.40-46, 2013 (SCI-Expanded)
- XIII. **Kinetics of nitrate removal in wetlands receiving agricultural drainage**
Karpuzcu M. E., Stringfellow W. T.
ECOLOGICAL ENGINEERING, vol.42, pp.295-303, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Türkiye'nin en kapsamlı çevresel restorasyon ve endüstriyel kümelenme uygulaması: Ergene Nehri havzası çevre koruma ve havzalar arası atıksu transferi projesi**
AKCA L., KINACI C., KARPUZCU M. E., CEYHAN M., AKTAŞ M., GÖRGÜN H. E., AYDIN A. F., KARAASLAN Y., ÖZTÜRK İ.
Çevre, İklim ve Sürdürülebilirlik Dergisi, vol.1, no.1, pp.27-40, 2022 (Peer-Reviewed Journal)
- II. **A Flexible Water Quality Modelling Simulator Based on Matrix Algebra**
Ertürk A., Gürel M., Ekdal A., Cüceloğlu G., Karpuzcu M. E., Karahan Özgün Ö., Kınacı C., Eropak Yılmaz C., Çınar S., Çitil E., et al.
Turkish Journal of Water Science and Management, vol.6, no.1, pp.31-88, 2022 (Peer-Reviewed Journal)
- III. **İçme sularından tat ve kokunun giderimi: İstanbul'daki kurulu su arıtma tesislerinde performans değerlendirmesi ve iyileştirilmesi**
FAKIOĞLU M., KARPUZCU M. E., TORÖZ İ., YILDIZ F., ÖZTÜRK İ.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.26, 2020 (ESCI)
- IV. **Küçük Menderes Alt Havzası'nın SWAT ile Modellenmesi**
Saddiqi M. M., KARPUZCU M. E.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.34, no.4, pp.55-69, 2019 (Peer-Reviewed Journal)
- V. **Organofosfatlı Pestisitlerin Pilot Ölçekli Sulak Alan Reaktörlerinde Gideriminin İncelenmesi**
KARPUZCU M. E., ŞAHİN Ç.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, pp.137-145, 2019 (Peer-Reviewed Journal)
- VI. **Current status of agricultural pesticide pollution in Turkey and evaluation of alternative control methods**
Dogan F. N., Karpuzcu M. E.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK

BILIMLERİ DERGİSİ, vol.25, no.6, pp.734-747, 2019 (ESCI)

VII. **İçme sularında alg kaynaklı tat ve koku sorununun değerlendirilmesi**

FAKIOĞLU M., KARPUZCU M. E., ÖZTÜRK İ.

Pamukkale Üniversitesi Mühendislik Bilimleri, vol.24, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Biyolojik Arıtma**

ÖZTÜRK İ., KARPUZCU M. E., ÖZGÜN H.

in: Atıksu Mühendisliği, , Editor, İSKİ, İstanbul, pp.123-197, 2017

Refereed Congress / Symposium Publications in Proceedings

I. **Modeling the Impact of Land Use Change on the Hydrology of a Drinking Water Basin**

DOĞAN F. N., KARPUZCU M. E.

4th International Conference on Innovative Studies of Contemporary Sciences (TOKYO SUMMIT IV), Tokyo, Japan, 29 - 31 July 2021

II. **Hydrologic Modeling of a Highly Managed Watershed Using SWAT**

SADDIQI M. M., KARPUZCU M. E.

EJONS 12th International Conference on Mathematics, Engineering, Natural and Medical Sciences, Paris, France, 9 - 11 July 2021

III. **Implementation of Stormwater Wetlands for the Protection of Drinking Water Reservoirs**

KARPUZCU M. E.

7th International Conference on Environmental Science and Technology (ICOEST), Saraybosna, Bosnia And Herzegovina, 23 - 27 June 2021

IV. **Management of Wastewater in Rural Districts of Istanbul Metropolitan Municipality**

KARPUZCU M. E., İNCİ A., HACI GÖKTAŞ M., ÖZTÜRK İ.

IWA SWWS2018 Conference on Small Water Wastewater Systems and Resources Oriented Sanitation, Haifa, Israel, 14 - 18 October 2018

V. **Wetlands as BMPs for the Control of Diffuse Pollution**

KARPUZCU M. E.

Michigan State University Seminar Series, 25 August 2017

VI. **Fate of Organophosphate Pesticides in Wetlands Receiving Agricultural Drainage**

KARPUZCU M. E., ŞAHİN Ç.

254th National Meeting of the American-Chemical-Society (ACS), Washington, United States Of America, 19 - 24 August 2017

VII. **Biotransformation of organophosphate pesticides in wetland sediments in Meric-Ergene Basin**

ŞAHİN Ç., KARPUZCU M. E.

The 9th Eastern European IWA Young Water Professionals Conference, Budapest, Hungary, 24 - 27 May 2017

VIII. **Understanding sources of aquatic contaminants of emerging concern**

RICE P., FAIRBAIRN D., KARPUZCU M. E., KAUFENBERG E., ARNOLD W., NOVAK P., KOSKINEN W., BARBER B., SWACKHAMER D.

250th National Meeting of the American-Chemical-Society (ACS), BOSTON, United States Of America, 16 - 20 August 2015, vol.250

IX. **Phototransformation of pesticides in prairie potholes: Effect of dissolved organic matter in triplet-induced oxidation**

KARPUZCU M. E., ARNOLD W.

248th National Meeting of the American-Chemical-Society (ACS), San-Francisco, Costa Rica, 10 - 14 August 2014, vol.248

- X. **Biodegradation of organophosphate pesticides in riparian wetlands receiving agricultural drainage**
KARPUZCU M. E., HANLON J., SEDLAK D., STRINGFELLOW W.
American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, Dallas, TX, United States Of America, 29 July - 01 August 2012
- XI. **Incorporation of engineered ecosystem services into regions with highly modified hydrologic cycles**
STRINGFELLOW W., JAIN R., KARPUZCU M. E.
96th ESA Annual Meeting, Austin, United States Of America, 7 - 12 August 2011
- XII. **Spatial and temporal variation in the biodegradation of organophosphate pesticides in agricultural drains and riparian wetlands**
KARPUZCU M. E., HANLON J., SEDLAK D., STRINGFELLOW W.
XVIIth World Congress of the International Commission of Agricultural and Biosystems Engineering (CIGR), Quebec City, Canada, 13 - 17 June 2010

Metrics

Publication: 34

Citation (WoS): 275

Citation (Scopus): 334

H-Index (WoS): 7

H-Index (Scopus): 7

Congress and Symposium Activities

Michigan State University Seminar Series, Invited Speaker, Michigan, United States Of America, 2017

Non Academic Experience

University of Minnesota