Dr.Öğr.Üyesi HABİBULLAH UZUN

Kişisel Bilgiler

İş Telefonu: +90 216 348 0292 Dahili: 1685
E-posta: habibullah.uzun@marmara.edu.tr
Web: http://dosya.marmara.edu.tr/eng/enve/Akademik%20Personel/Habibullah_Uzun_CV_English_051419.pdf
Posta Adresi: Eğitim Mah., Fahrettin Kerim Gökay Cd., 34722 Kadıköy/İstanbul

Uluslararası Araştırmacı ID'leri
ScholarID: c95RkG4AAAAJ
ORCID: 0000-0001-7675-0885
Yoksis Araştırmacı ID: 237816

Biyografi

My primary field of research interest is the application of physicochemical processes (i.e., adsorption, chemical oxidation, separation) in drinking water. I have dedicated my research career to studying water quality, the occurrence of disinfection by-product (DBP) precursors in source water, and their control during water treatment. I am also interested in understanding the algal and human activities on the occurrence of micropollutants (e.g., MIB and Geosmin, pharmaceuticals, per- and polyfluoroalkyl substances [PFAS], microplastics, flame retardants, pesticides, etc.) and heavy metals in source waters and controlling them with different physicochemical applications. However, recent research showed that abrupt changes occur in the behavior of weather events (i.e., global warming, drought, and heatwaves). Also, industrial, and domestic waste or wastewater discharges increase across the globe. The case in this new atmospheric phenomena, catastrophic events (i.e., drought, hot weather, wildfires, flooding), and increased algal and anthropogenic activities in source waters require new approaches in terms of watershed management and water treatment. Thus, my research interest evolved on these new emerging topics and their potential effects on safe drinking water supply. In addition, I'm doing research on the production of activated carbon from the waste feedstock and the regeneration of exhausted GACs. Furthermore, I am also a member of the International Biochar Association, and doing research on the production of biochar, a pyrolysis product shown as one of the most important future technologies on sequestration of carbon and improving plant & crop growth, from biosolids and waste feedstock.

Eğitim Bilgileri

Doktora, Clemson University, College of Engineering, Environmental Engineering and Science, Amerika Birleşik Devletleri 2010 - 2016
Yüksek Lisans, Michigan State University, College of Engineering, Civil and Environmental Engineering, Amerika Birleşik Devletleri 2008 - 2010
Lisans, Sakarya Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Türkiye 2002 - 2005

Yaptığı Tezler

Doktora, N-nitrosodimethylamine in drinking water: Temporalformation potential patterns in source waters andtreatability of precursors, Clemson University, Environmental Enginnering And Science, 2016

Araştırma Alanları

Çevre Mühendisliği, Çevre Kimyası, Atıksuların Toplanması ve Arıtımı, Su Kirliliği ve Kontrolü, Su Temini ve Arıtımı, Su ve Hava Kaynaklarının Yönetimi

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Marmara Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2018 - Devam Ediyor
Araştırma Görevlisi, Sakarya Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2017 - 2018
Doktor, Clemson University, College of Engineering, Environmental Engineering and Earth Science, 2016 - 2017
Öğrenci, Clemson University, College of Engineering, Environmental Engineering and Earth Science, 2010 - 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Effect of prescribed fires on the export of dissolved organic matter, precursors of disinfection by-products, and water treatability**
UZUN H., Zhang W., Olivares C. I., Erdem C. U., Coates T. A., Karanfil T., Chow A. T.
Water Research, cilt.187, 2020 (SCI-Expanded)

II. **Low water treatability efficiency of wildfire-induced dissolved organic matter and disinfection by-product precursors**
Chen H., UZUN H., Chow A. T., Karanfil T.
Water Research, cilt.184, 2020 (SCI-Expanded)

III. **Concentration and isotopic composition of mercury in a blackwater river affected by extreme flooding events**
Tsui M. T., Uzun H., Ruecker A., Majidzadeh H., Ulus Y., Zhang H., Bao S., Blum J. D., Karanfil T., Chow A. T.
LIMNOLOGY AND OCEANOGRAPHY, cilt.65, sa.9, ss.2158-2169, 2020 (SCI-Expanded)

IV. **Two years of post-wildfire impacts on dissolved organic matter, nitrogen, and precursors of disinfection by-products in California stream waters**
UZUN H., Dahlgren R. A., Olivares C., Erdem C. U., Karanfil T., Chow A. T.
Water Research, cilt.181, 2020 (SCI-Expanded)

V. **Hurricane resulted in releasing more nitrogenous than carbonaceous disinfection byproduct precursors in coastal watersheds.**
Majidzadeh H., Uzun H., Chen H., Bao S., Tsui M., Karanfil T., Chow A.
The Science of the total environment, cilt.705, ss.135785, 2020 (SCI-Expanded)

VI. **Control wildfire-induced Microcystis aeruginosa blooms by copper sulfate: Trade-offs between reducing algal organic matter and promoting disinfection byproduct formation**
Tsai K., UZUN H., Chen H., Karanfil T., Chow A. T.
WATER RESEARCH, cilt.158, ss.227-236, 2019 (SCI-Expanded)

VII. **Removal of wastewater and polymer derived N-nitrosodimethylamine precursors with integrated use of chlorine and chlorine dioxide**
Uzun H., Kim D., Karanfil T.
CHEMOSPHERE, cilt.216, ss.224-233, 2019 (SCI-Expanded)

VIII. **Long-term watershed management is an effective strategy to reduce organic matter export and disinfection by-product precursors in source water**
Majidzadeh H., Chen H., Tsai K., Chrıstopher O., Carl T., UZUN H., Karanfil T., Chow A. T.
International Journal Of Wildland Fire, 2019 (SCI-Expanded)

IX. **Optical in-situ sensors capture dissolved organic carbon (DOC) dynamics after prescribed fire in high-DOC forest watersheds**
Olivares C. I., Zhang W., Uzun H., Erdem C. U., Majidzadeh H., Trettin C., Karanfil T., Chow A.
INTERNATIONAL JOURNAL OF WILDLAND FIRE, cilt.28, sa.10, ss.761-768, 2019 (SCI-Expanded)

X. **Deactivation of wastewater-derived N-nitrosodimethylamine precursors with chlorine dioxide**

oxidation and the effect of pH
UZUN H., Kim D., Karanfil T.
SCIENCE OF THE TOTAL ENVIRONMENT, cilt.635, ss.1383-1391, 2018 (SCI-Expanded)

XI. **Disinfection byproduct precursor dynamics and water treatability during an extreme flooding event in a coastal blackwater river in southeastern United States**
Ruecker A., UZUN H., Karanfil T., Tsui M. T. K., Chow A. T.
CHEMOSPHERE, cilt.188, ss.90-98, 2017 (SCI-Expanded)

XII. **Extreme flooding mobilized dissolved organic matter from coastal forested wetlands**
Majidzadeh H., UZUN H., Ruecker A., Miller D., Vernon J., Zhang H., Bao S., Tsui M. T. K., Karanfil T., Chow A. T.
BIOGEOCHEMISTRY, cilt.136, sa.3, ss.293-309, 2017 (SCI-Expanded)

XIII. **Dynamic Changes of Disinfection Byproduct Precursors following Exposures of Microcystis aeruginosa to Wildfire Ash Solutions**
Tsai K., UZUN H., Karanfil T., Chow A. T.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, cilt.51, sa.15, ss.8272-8282, 2017 (SCI-Expanded)

XIV. **The Removal of N-Nitrosodimethylamine Formation Potential in Drinking Water Treatment Plants**
UZUN H., Kim D., Karanfil T.
JOURNAL AMERICAN WATER WORKS ASSOCIATION, cilt.109, ss.15-28, 2017 (SCI-Expanded)

XV. **Removal of N-nitrosodimethylamine precursors with powdered activated carbon adsorption**
Beita-Sandi W., Ersan M. S., UZUN H., Karanfil T.
WATER RESEARCH, cilt.88, ss.711-718, 2016 (SCI-Expanded)

XVI. **Assessing trihalomethanes (THMs) and N-nitrosodimethylamine (NDMA) formation potentials in drinking water treatment plants using fluorescence spectroscopy and parallel factor analysis**
Yang L., Kim D., UZUN H., Karanfil T., Hur J.
CHEMOSPHERE, cilt.121, ss.84-91, 2015 (SCI-Expanded)

XVII. **Seasonal and temporal patterns of NDMA formation potentials in surface waters**
UZUN H., Kim D., Karanfil T.
WATER RESEARCH, cilt.69, ss.162-172, 2015 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Increased Organohalogen Diversity after Disinfection of Water from a Prescribed Burned Watershed**
Olivares C., UZUN H., Erdem C. U., Zhang W., Trettin C., Liu Y., Burton S. D., Robinson E. W., Karanfil T., Chow A. T.
ACS ENVIRONMENTAL SCIENCE AND TECHNOLOGY WATER, cilt.1, sa.5, ss.1274-1282, 2021 (ESCI)

Kitap & Kitap Bölümleri

I. **Seasonal Changes of NDMA FormationPotential and its Removal DuringWater Treatment**
UZUN H., Daekyun K., Wilson B., Mahmut Selim E., Karanfil T., Chrıs P.
Water Research Foundation, Colorado, 2016

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Prescribed Fire Reduces Disinfection Byproduct Precursors In Source Water**
Chow A. T., Karanfil T., UZUN H., Carl T.
NOM7 IWA Specialist Conference on Natural Organic Matter, Tokyo, Japonya, 7 - 10 Ekim 2019

II. **Influence Of Hurricane Events On Dissolved Organic Matter Export And Disinfection Byproduct Formations In Coastal Blackwater Rivers**
Chen H., Majidzadeh H., Ruecker A., UZUN H., Karanfil T., Chow A. T.

NOM7 IWA Specialist Conference on Natural Organic Matter, Tokyo, Japonya, 7 - 10 Ekim 2019

III. **Extreme flooding induced transport of mercury andmethylmercury in a blackwater river in the coastal plain**
Tsui M. T. K., UZUN H., Ruecker A., Xiangping N., Joel B., Bao S., Karanfil T., Chow A. T.
13 th International Conference on Mercury as a Global Pollutant, 16 - 21 Temmuz 2017

IV. **Fluvial transport of mercury and methylmercury from two burned watersheds in northern California**
Peijia K., Tsui M. T. K., UZUN H., Karanfil T., Randy D., Chow A. T.
13 th International Conference on Mercury as a Global Pollutant, 16 - 21 Temmuz 2017

V. **The effect of prescrıbed fıre on DOC and DBP precursors ın forested watersheds**
UZUN H., Wenbo Z., Cagrı Utku E., Chrıstopher O., Thomas C., Chow A. T., Karanfil T.
AWWA Annual Conference Exposition 2017, 11 - 14 Haziran 2017

VI. **Compositional changes to DOM following prescribed fires on forested watersheds and their effect on drinking water supply**
Chrıstopher O., UZUN H., Cagrı Utku E., Wenbo Z., Thomas C., Carl T., Yina L., Errol R., Chow A. T., Karanfil T.
Advancing Healthy Communities through Environmental Engineering and Science (AEESP) 2017, 20 - 22 Haziran 2017

VII. **The effect of prescribed burns on dissolved organic matter (DOM) exports and disinfection by-product formation potential (DBP FP)**
Cagrı Utku E., Wenbo Z., UZUN H., Chrıstopher O., Thomas C., Chow A. T., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2017, 12 - 15 Mart 2017

VIII. **Compositional Changes of Dissolved Organic Matter Following Prescribed Fire on Forested Watershedsand their Effect on Drinking Water Supply**
Cagrı Utku E., Chrıstopher O., UZUN H., Wenbo Z., Carl T., Yina L., Errol R., Chow A. T., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2017, 12 - 15 Mart 2017

IX. **Water and Nutrients Exports during an Extreme Flooding Event in South Carolina**
Shaowu B., Hongyuan Z., Tsui M. T. K., Ruecker A., UZUN H., Karanfil T., Chow A. T.
AGU Chapman 2017, 22 - 27 Ocak 2017

X. **Dissolved Organic Carbon and Mercury Exports during Extreme Flooding in South Carolina induced by Hurricane Joaquin, 2015**
Chow A. T., Shaowu B., Hongyuan Z., Tsui M. T. K., Ruecker A., UZUN H., Karanfil T.
AGU 2016, 12 - 16 Aralık 2016

XI. **Can prescribed fire reduce disinfection by-product precursor loading to source water?**
UZUN H., Chrıstopher O., Wenbo Z., Cagrı Utku E., Chow A. T., Karanfil T.
AWWA Water Quality and Technology Conference 2016, 13 - 17 Kasım 2016

XII. **Water Treatabılıty of Surface Water Under Intensive Flooding - Case Study of South Carolina Flooding**
Karanfil T., UZUN H., Ruecker A., Tsui M. T. K., Chow A. T.
AWWA Water Quality and Technology Conference 2016, 13 - 17 Kasım 2016

XIII. **Dissolved Organic Matter and DisinfectionByproduct Precursors in Coastal Blackwater Rivers:A Case Study of South Carolina Flooding**
Chow A. T., Ruecker A., UZUN H., Karanfil T., Tsui M. T. K.
American Chemical Society 252th Conference 2016, 20 - 25 Ağustos 2016

XIV. **Exports of dissolved organiccarbon and disinfection byproductprecursors from prescribed burntforests**
Wenbo Z., UZUN H., Cagrı Utku E., Chrıstopher O., Thomas C., FrancesMary R., Karanfil T., Chow A. T.
American Chemical Society 252th Conference 2016, 20 - 25 Ağustos 2016

XV. **Removal of Wastewater- and Polymer- derıved NDMA Precursros wıth Integrated Oxıdatıon Strategıes**
UZUN H., Daekyun K., Karanfil T.
AWWA Annual Conference Exposition 2016, 19 - 22 Haziran 2016

XVI. **Removal of Wastewater- and Polymer-derived NDMA Precursors by Integrated Cl2 ClO2 Oxidations**
UZUN H., Daekyun K., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2016, 13 - 16 Mart 2016

XVII. **Treatability of Coastal Black River during the Historical Flooding Event in SC**
UZUN H., Ruecker A., Karanfil T., Chow A. T.
South Carolina Environmental Conference - SCAWWA/WEASC 2016, 13 - 16 Mart 2016

XVIII. **Forest Fire and Drinking Water Quality : Forest management reduces THM HAA formation**
Cagrı Utku E., Wenbo Z., UZUN H., Chrıstopher O., Chow A. T., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2016, 13 - 16 Mart 2016

XIX. **DEACTIVATION OF WASTEWATER- AND POLYMER-DERIVED NDMA PRECURSORS WITH INTEGRATED OXIDATION**
UZUN H., Daekyun K., Karanfil T.
Gordorn Research Conference 2015, 9 - 13 Ağustos 2015

XX. **Control of NDMA Precursors by Oxidation with Chlorine Dioxide**
UZUN H., Daekyun K., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2012, 15 - 17 Mart 2015

XXI. **The Control of NDMA wıth Chlorıne Dıoxıde (ClO2)**
UZUN H., Daekyun K., Karanfil T.
AWWA Water Quality and Technology Conference 2014, 16 - 20 Kasım 2014

XXII. **Temporal patterns of NDMA precursors' removal at drinkingwater treatment plants**
UZUN H., Daekyun K., Karanfil T.
American Chemical Society 248th Conference 2014, 10 - 14 Ağustos 2014

XXIII. **An Overvıew of NDMA Formatıon Seasonal Temporal Varıabılıty of NDMA Formatıon Potentıals ın Selected Source Waters**
Karanfil T., UZUN H., Daekyun K.
AWWA Annual Conference Exposition 2014, 9 - 12 Haziran 2014

XXIV. **Temporal Seasonal Patterns of NDMA Formatıon Potentıals ın Source Waters**
UZUN H., Daekyun K., Karanfil T.
AWWA Annual Conference Exposition 2013, 10 - 13 Haziran 2013

XXV. **NDMA Formation Control in a Drinking Water Treatment Plants**
UZUN H., Daekyun K., Karanfil T.
Water, Wastewater and Waste (3W) Istanbul 2013, 22 - 24 Mayıs 2013

XXVI. **NDMA Formation Potentials in Source Waters and Removal at Drinking Water Treatment Plants**
UZUN H., Daekyun K., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2013, 10 - 12 Mart 2013

XXVII. **NDMA Formation from Source Waters to Distribution Systems**
UZUN H., Daekyun K., Nuray A., Karanfil T.
AWWA Annual Conference Exposition 2012, 10 - 14 Haziran 2012

XXVIII. **NDMA Precursors in Source Waters and Water Treatment Plants**
UZUN H., Daekyun K., Nuray A., Karanfil T.
South Carolina Environmental Conference - SCAWWA/WEASC 2012, 11 - 13 Mart 2012

Metrikler

Yayın: 49
Atıf (WoS): 347
Atıf (Scopus): 372
H-İndeks (WoS): 10
H-İndeks (Scopus): 10