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Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2007 - 2013

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2001 - 2004

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ÇEVRE MÜHENDİSLİĞİ, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ÇEVRE MÜHENDİSLİĞİ, 2018 - Continues

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ÇEVRE MÜHENDİSLİĞİ, 2015 - 2018

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ÇEVRE MÜHENDİSLİĞİ, 2002 - 2015

Courses

CEV3102 Toplumsal Duyarlılık Projesi, Undergraduate, 2019 - 2020

Akademik Araştırma ve Raporlama Teknikleri, Undergraduate, 2020 - 2021

CEV1031 Çevre Mühendisliğine Giriş, Undergraduate, 2017 - 2018

Aritma Çamurlarının Tasfiyesi, Undergraduate, 2018 - 2019

ORGANİK MİKROKİRLETİCİLER VE KONTROLÜ, Postgraduate, 2017 - 2018

CEV 4107 Bitirme Projesi Hazırlık, Undergraduate, 2017 - 2018

CEV 4101 Çevre Mühendisliği Projesi II, Undergraduate, 2017 - 2018

CEV 4006 Bitirme Projesi, Undergraduate, 2017 - 2018

CEV 5000 Çevre Mühendisliğinde Araştırma Teknikleri ve Yayın Etiği, Postgraduate, 2017 - 2018

Çevre Mühendisliği Projesi II, Undergraduate, 2016 - 2017

Advising Theses

EKER ŞANLI G., Polychlorinated biphenyl (pcb) concentrations and air-soil exchange in olive lands in Bursa, Postgraduate, Ş.Nur(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Spatio-Temporal Variations, Fugacity Fractions and Air-Soil Exchanges of PCBs in Industrial, Urban and Semi-Rural Sites**
EKER ŞANLI G., Erkul S. N., TAŞDEMİR Y.
Polycyclic Aromatic Compounds, vol.44, no.2, pp.1019-1036, 2024 (SCI-Expanded)
- II. **Concentrations, phase exchanges and source apportionment of polycyclic aromatic hydrocarbons (PAHs) In Bursa-Turkey**
Sanli G., Celik S., Joubi V., TAŞDEMİR Y.
Environmental Research, vol.232, 2023 (SCI-Expanded)
- III. **Temporal Variations of PCBs and Their Estimated Air-Soil Exchange Fluxes Measured in Seven Sites in Bursa-Turkey**
EKER ŞANLI G., TAŞDEMİR Y.
Soil and Sediment Contamination, vol.32, no.7, pp.843-861, 2023 (SCI-Expanded)
- IV. **Accumulations and temporal trends of polychlorinated biphenyls (PCBs) in olive tree components**
EKER ŞANLI G., TAŞDEMİR Y.
ENVIRONMENTAL GEOCHEMISTRY AND HEALTH, vol.44, no.8, pp.2577-2594, 2022 (SCI-Expanded)
- V. **Regional-temporal Trends and Risk Assessment of Polychlorinated Biphenyls (PCBs) in Olive Lands in Bursa, Turkey**
Erkul S. N., EKER ŞANLI G.
SOIL & SEDIMENT CONTAMINATION, vol.31, no.6, pp.715-737, 2022 (SCI-Expanded)
- VI. **Prediction of Polycyclic Aromatic Hydrocarbons (PAHs) Removal from Wastewater Treatment Sludge Using Machine Learning Methods**
ÇAĞLAR GENÇOSMAN B., EKER ŞANLI G.
WATER AIR AND SOIL POLLUTION, vol.232, no.3, 2021 (SCI-Expanded)
- VII. **Performance Evaluation of Diethylamine to the Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from Polluted Soils with Sunlight**
Eker G., ŞENGÜL B., CİNDORUK S. S.
Polycyclic Aromatic Compounds, vol.41, pp.306-318, 2021 (SCI-Expanded)
- VIII. **Effects of Hydrogen Peroxide and Temperature on Removal of Polycyclic Aromatic Hydrocarbons (Pahs) from Soil during Photodegradation Applications**
ŞENGÜL B., EKER ŞANLI G., SAKIN A. E.
SOIL & SEDIMENT CONTAMINATION, vol.30, no.4, pp.436-448, 2021 (SCI-Expanded)
- IX. **Removal PCBs in soil using of H₂O₂ during UVA applications**
Tandogan B., EKER ŞANLI G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.2, pp.779-792, 2021 (SCI-Expanded)
- X. **Seasonal variations of organochlorine pesticides (OCPs) in air samples during day and night periods in Bursa, Turkey**
Sanlı G., Taşdemir Y.

Atmospheric Pollution Research, vol.11, pp.2142-2153, 2020 (SCI-Expanded)

- XI. **Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from Industrial Soil with Solar and UV Light**
Eker G., Şengül B.
POLYCYCLIC AROMATIC COMPOUNDS, vol.40, pp.1238-1250, 2020 (SCI-Expanded)
- XII. **Determination of Polychlorinated Biphenyl (PCB) concentrations of olive groves in spring season**
Erkul S. N., EKER ŞANLI G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.1003-1014, 2020 (SCI-Expanded)
- XIII. **Effect of UV wavelength, temperature and photocatalyst on the removal of PAHs from industrial soil with photodegradation applications**
EKER ŞANLI G., Hatipoglu M.
ENVIRONMENTAL TECHNOLOGY, vol.40, no.28, pp.3793-3803, 2019 (SCI-Expanded)
- XIV. **Atmospheric Deposition of Organochlorine Pesticides (OCPs): Species, Levels, Diurnal and Seasonal Fluctuations, Transfer Velocities**
EKER ŞANLI G., TAŞDEMİR Y.
ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.75, no.4, pp.625-633, 2018 (SCI-Expanded)
- XV. **Spatial variations of polycyclic aromatic hydrocarbons (pahs) concentrations in olive grove area soils in Bursa**
EKER ŞANLI G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.2, pp.607-616, 2017 (SCI-Expanded)
- XVI. **Spatial Distribution of Polycyclic Aromatic Hydrocarbon (PAH) Concentrations in Soils from Bursa, Turkey.**
Karaca G.
Archives of environmental contamination and toxicology, vol.70, no.2, pp.406-17, 2016 (SCI-Expanded)
- XVII. **Removal of polycyclic aromatic hydrocarbons (PAHs) from inorganic clay mineral: Bentonite.**
Karaca G., Baskaya H. S., TAŞDEMİR Y.
Environmental science and pollution research international, vol.23, no.1, pp.242-52, 2016 (SCI-Expanded)
- XVIII. **Removal of polycyclic aromatic hydrocarbons (pahs) from organized industry district treatment sludges with photochemical degradation: Ambient air applications Organize sanayi bölgesi aritma çamurlarındaki poliaromatik hidrokarbonların (pah) fotokimyasal parçalanma yoluyla giderimi: açık hava uygulamaları**
Karaca G., TAŞDEMİR Y.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.30, no.4, pp.557-565, 2015 (SCI-Expanded)
- XIX. **Application of Advanced Oxidation Processes for Polycyclic Aromatic Hydrocarbons Removal from Municipal Treatment Sludge**
Karaca G., Tasdemir Y.
Clean - Soil, Air, Water, vol.43, no.2, pp.191-196, 2015 (SCI-Expanded)
- XX. **Migration of PAHs in food industry sludge to the air during removal by UV and TiO₂**
Karaca G., TAŞDEMİR Y.
Science of the Total Environment, no.1, pp.356-361, 2014 (SCI-Expanded)
- XXI. **Application of various methods for removal of polycyclic aromatic hydrocarbons from synthetic solid matrices**
Karaca G., TAŞDEMİR Y.
Environmental Technology (United Kingdom), vol.35, no.14, pp.1840-1850, 2014 (SCI-Expanded)
- XXII. **Migration of polycyclic aromatic hydrocarbons (PAHs) in urban treatment sludge to the air during PAH removal applications**
Karaca G., CİNDORUK S. S., TAŞDEMİR Y.
JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, vol.64, no.5, pp.568-577, 2014 (SCI-Expanded)

- XXIII. **Polycyclic Aromatic Hydrocarbons (PAHs) Removal Applications in the Industrial Treatment Sludge using UV and TiO₂**
Karaca G., Tasdemir Y.
JOURNAL OF RESIDUALS SCIENCE & TECHNOLOGY, vol.11, no.2, pp.65-70, 2014 (SCI-Expanded)
- XXIV. **Temporal and spatial variations in PAH concentrations in the sediment from the Nilufer Creek in Bursa, Turkey**
Karaca G., TAŞDEMİR Y.
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.49, no.8, pp.900-912, 2014 (SCI-Expanded)
- XXV. **Effects of Temperature and Photocatalysts on Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from Automotive Industry Sludge**
Karaca G., TAŞDEMİR Y.
Polycyclic Aromatic Compounds, vol.33, no.4, pp.380-395, 2013 (SCI-Expanded)
- XXVI. **Removal of polycyclic aromatic hydrocarbons (PAHs) from industrial sludges in the ambient air conditions: Automotive Industry**
Karaca G., TAŞDEMİR Y.
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.48, no.8, pp.855-861, 2013 (SCI-Expanded)
- XXVII. **Removal of polycyclic aromatic hydrocarbons from municipal sludge using UV light**
SALİHOĞLU N. K., Karaca G., SALİHOĞLU G., TAŞDEMİR Y.
DESALINATION AND WATER TREATMENT, vol.44, pp.324-333, 2012 (SCI-Expanded)
- XXVIII. **EFFECT OF DIETHYLAMINE ON PAH REMOVAL FROM MUNICIPAL SLUDGE UNDER UV LIGHT**
Karaca G., TAŞDEMİR Y.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.20, pp.1777-1784, 2011 (SCI-Expanded)
- XXIX. **Comparison of Polycyclic Aromatic Hydrocarbons Levels in Sludges from Municipal and Industrial Wastewater Treatment Plants**
SALİHOĞLU N. K., Salihoglu G., Tasdemir Y., CİNDORUK S. S., Yolsal D., Ogulmus R., Karaca G.
ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.58, no.3, pp.523-534, 2010 (SCI-Expanded)
- XXX. **Properties of steel foundry electric arc furnace dust solidified/stabilized with Portland cement.**
Salihoglu G., Pinarli V., Salihoglu N. K., Karaca G.
Journal of environmental management, vol.85, no.1, pp.190-7, 2007 (SCI-Expanded)
- XXXI. **Stabilization and solidification of waste phosphate sludge using Portland cement and fly ash as cement substitute**
Pinarli V., Karaca G., Salihoglu G., Salihoglu N.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.40, no.9, pp.1763-1774, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Farklı Toprak Kullanım Alanlarında Poliaromatik Hidrokarbon (PAH) Kirliliği: İlkbahar Mevsimi**
EKER ŞANLI G., Sivri S.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.21, no.63, pp.805-817, 2019 (Peer-Reviewed Journal)
- II. **Removal of Polychlorinated Biphenyls (PCBs) from Soils Using Additives: Ambient Air Applications**
Tandoğan B., EKER ŞANLI G.
Journal of Biological Environmental Sciences, vol.13, no.37, pp.1-8, 2019 (Peer-Reviewed Journal)
- III. **Determination of Soil Pollution Derived From Polychlorinated Biphenyls (PCBs) in Bursa: Spatial and Temporal Variations**
EKER ŞANLI G., Tandoğan B.

MANAS Journal of Engineering, vol.7, no.1, pp.42-51, 2019 (Peer-Reviewed Journal)

- IV. **Immobilization of Heavy Metals in Waste Phosphate Coating Sludge Using Kiln Dust as Portland Cement Substitute**
EKER G., PINARLI V.
Civil Engineering and Architecture, 2018 (Scopus)
- V. **UV-A IŞINLARIYLA TOPRAKLARDAKİ POLİAROMATİK HİDROKARBONLARIN (PAH'LARIN) GİDERİMİNDE TiO₂'İN FOTOKATALİZÖR OLARAK KULLANIMI**
EKER G.
Ömer Halis Demir Mühendislik Bilimleri Dergisi, 2018 (Peer-Reviewed Journal)
- VI. **SANAYİ BÖLGESİ TOPRAKLARINDA POLİKLORLU BİFENİLLERİN (PCB'LERİN) GİDERİMİ İÇİN FOTOPARÇALAMA UYGULAMALARI**
EKER G., Tandoğan B., Küçük A., Özkan Ç.
Çevre Bilim ve Teknoloji, 2017 (Peer-Reviewed Journal)
- VII. **Endüstriyel Arıtma Çamurlarındaki Poliaromatik Hidrokarbonların PAH ların Sıcaklık ve UV Işınları Etkisiyle Havaya Geçişleri**
KARACA G., TAŞDEMİR Y.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.21, no.1, pp.1-12, 2016 (Peer-Reviewed Journal)
- VIII. **ALICI SU ORTAMLARINDAKİ POLİHALKALI AROMATİK HİDROKARBONLARIN PAH LAR KONSANTRASYONLARININ BÖLGESEL DEĞİŞİMİ NİLÜFER ÇAYI ÖRNEĞİ**
EKER G., TAŞDEMİR Y.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.21, no.1, pp.191-204, 2016 (Peer-Reviewed Journal)
- IX. **Çelik endüstrisi baca tozlarında çinko ve kurşun stabilizasyonu**
PINARLI V., SALİHOĞLU G., EKER ŞANLI G., SALİHOĞLU N. K.
Çevre Bilimleri, vol.7, pp.1-6, 2014 (Peer-Reviewed Journal)
- X. **Çevresel Uygulamalarda Çimento Kullanımı Tehlikeli Atık Bertarafı**
SALİHOĞLU G., KARACA G.
Çimento ve Beton Dünyası, vol.15, pp.60-68, 2010 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **BİR TEKSTİL İŞLETMESİNDE ENERJİ MALİYETLERİNİN VE KARBON AYAK İZİNİN AZALTILMASINA İLİŞKİN BİR ARAŞTIRMA**
Değirmen D., Eker Şanlı G.
4th International Congress on Agriculture, Environment and Health, Afyonkarahisar, Turkey, 20 - 22 May 2021, pp.473-487
- II. **Seasonal Variations of Organochlorine Pesticides (OCPs) in Air Samples during Day and Night Periods in Bursa, Turkey**
EKER ŞANLI G., TAŞDEMİR Y.
18th World Clean Air Congress, Turkey, 23 - 27 September 2019
- III. **UTILIZATION OF SCRAP TIRES AND WASTE OIL AS SUPPLEMENTARY FUELS IN CEMENT PRODUCTION**
EKER ŞANLI G., PINARLI V.
The Thirty-Fourth International Conference on Solid Waste Technology and Management, 31 March - 03 April 2019
- IV. **Chemical Fixation of Automotive Industry Coating Sludge Containing Nickel and Zinc Using Silica Fume as an Alternative Binder to Portland Cement**
EKER G., PINARLI V.
ICENS 4th International Conference on Engineering and Natural Science, 2 - 06 May 2018
- V. **Nilüfer Çayı Sedimentinde Polisiklik Aromatik Hidrokarbon (PAH) Seviyelerinin İncelenmesi**
EKER G., TAŞDEMİR Y.

Uluslararası Su ve Çevre Kongresi, Bursa, Turkey, 22 March 2018

- VI. **Bursa Topraklarında Kış Mevsiminde Polihalkali Aromatik Hidrokarbon (PAH) Kaynaklı Kirlilik Seviyesinin Belirlenmesi**
EKER G.
uluslararası su ve çevre kongresi, 22 - 24 March 2018
- VII. **Gemilerin Bakım-Onarım Çalışmalarından Kaynaklanan Deniz Kirliliğinin Azaltılması İçin Alınacak Önlemler**
Demir E., EKER G.
uluslararası su ve çevre kongresi, 22 - 24 March 2018
- VIII. **Organiklorlu Pestisitlerin (OCP'lerin) Doğancı Barajı'na Atmosferik Çökelmelerinin İncelenmesi**
Leylek A. T., EKER G., TAŞDEMİR Y.
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Turkey, 22 - 24 March 2018, pp.1817-1825
- IX. **Nilüfer Çayı Sedimentinde Polisiklik Aromatik Hidrokarbon (PAH) Seviyelerinin**
EKER G., TAŞDEMİR Y.
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Turkey, 22 - 24 March 2018, pp.1807-1816
- X. **Evaporation of Polycyclic Aromatic Hydrocarbons (PAHs) from the Automotive Treatment Sludge During PAH Photodegradation Applications**
EKER G., TAŞDEMİR Y.
8th Atmospheric Sciences Symposium – ATMOS 2017, İstanbul, Turkey, 1 - 04 November 2017, pp.249-259
- XI. **Sanayi Bölgesi Topraklarında Poliklorlu Bifenillerin (PCB'lerin) Giderimi İçin Fotoparçalama Uygulamaları**
EKER G., Tandoğan B., Küçük A., Özkan Ç.
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
- XII. **Immobilization of Heavy Metals in Waste Phosphate Coating Sludge Using Kiln Dust as Portland Cement Substitute**
EKER G., PINARLI V.
"Sixth International Conference on Environmental Engineering, Planning and Economics (CEMEPE 2017) SECOTOX Conference, 25 - 30 June 2017
- XIII. **LEVELS OF POLYCYCLIC AROMATIC HYDROCARBON PAH CONCENTRATIONS INSURFACE SOILS BURSA SUMMER SEASON**
EKER G., Hatipoğlu M.
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES(IBCCESS), Giresun, Turkey, 31 August - 03 September 2016
- XIV. **Polycyclic Aromatic Hydrocarbons PAHs Removal Applications in the Industrial Treatment Sludge Using UV and TiO₂**
KARACA G., TAŞDEMİR Y.
4th European Conference on Sludge Management, İzmir, Turkey, 26 - 27 May 2014
- XV. **Effect of Photosensitizer Diethylamine on the Evaporation of Polycyclic Aromatic Hydrocarbons PAHs from the Industrial Sludge**
KARACA G., TAŞDEMİR Y.
4th European Conference on Sludge Management, İzmir, Turkey, 26 - 27 May 2014
- XVI. **Kentsel Arıtma Çamurlarındaki Poliaromatik Hidrokarbonların Uzaklaştırılmasında Alternatif Yöntemler**
KARACA G., TAŞDEMİR Y.
3. Uluslararası Bursa Su Kongresi ve Sergisi, Bursa, Turkey, 22 - 24 March 2013, pp.999-1006
- XVII. **Kentsel Arıtma Çamurlarındaki Poliaromatik Hidrokarbonların PAH lar Uzaklaştırılmasında Fenton Uygulamaları**
KARACA G., TAŞDEMİR Y.
4. Ulusal Katı Atık Yönetimi Kongresi, UKAY 2012, ANTAYLYA, Turkey, 17 - 20 October 2012, pp.30
- XVIII. **Migration of PAHs in Food Industry Sludge to the Air During Removal by UV and TiO₂**
KARACA G., TAŞDEMİR Y.

Air Quality Management at Urban, Regional and Global Scales 4th International Symposium and IUAPPA Regional Conference, İstanbul, Turkey, 10 - 13 September 2012, pp.80

XIX. The Study of Applicability of Limit Values for PAHs on Soil in Turkey

GÜLÇİÇEK G., TOROZ İ., ALP K., HANEDAR A., AVŞAR E., KARACA G.

Second International Conference on Air Pollution and Combustion, Antalya, Turkey, 19 - 23 September 2011

XX. Effect of Diethylamine on PAH Removal from Municipal Sludge Under UV Light

KARACA G., TAŞDEMİR Y.

Uluslararası Sürdürülebilir Su ve Atıksu Sempozyumu, Konya, Turkey, 26 - 28 October 2010, vol.2, pp.1249-1256

XXI. Bursa daki Atıksu Arıtma Tesislerinde Oluşan Çamurlarda Çok Halkalı Aromatik Hidrokarbonların PAH Seviyeleri

SALİHOĞLU N. K., SALİHOĞLU G., CİNDORUK S. S., KARACA G., YOLSAL D., OĞULMUŞ R., TAŞDEMİR Y.

Türkiye’de Katı Atık Yönetimi Sempozyumu (TÜRKAY), İstanbul, Turkey, 15 - 17 June 2009, pp.559-565

XXII. Cement use for Environmental Purposes Hazardous Waste Treatment

SALİHOĞLU G., KARACA G., PINARLI V.

Third International Symposium Sustainability in Cement and Concrete, İstanbul, Turkey, 21 - 23 May 2007, vol.1, pp.214-221

XXIII. Otomotiv Endüstrisi Tehlikeli Atıklarının Çimento Fabrikalarında Ek Yakıt Olarak Geri Kazanımı

PINARLI V., KARACA G., ÜNLÜ H.

3. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 26 - 28 June 2006, pp.1

XXIV. Otomotiv Endüstrisi Atık Çamurlarının Kimyasal Fiksasyonu Stabilizasyonu ve Solidifikasyonu

SALİHOĞLU N. K., PINARLI V., EKER G., SÖL Z.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi 2. Ulusal Katı Atık Kongresi, İzmir, Turkey, 7 - 09 May 2003, pp.6-13

Metrics

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