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Kişisel Bilgiler

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Yoksis Araştırmacı ID: [15621](https://yoksis.gov.tr/yoksis/arastrmaci/15621)

Eğitim Bilgileri

Doktora, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), Türkiye 1994 - 1999

Yüksek Lisans, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (YI) (Tezli), Türkiye 1991 - 1994

Lisans, Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Çevre Mühendisliği Bölümü, Türkiye 1987 - 1991

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Karadeniz kıyı şeridi yüzeysel sularında organoklorlu pestisit analizi, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), 1999

Yüksek Lisans, Fotodegradasyon ile lineer alkil benzen sülfonat (LAB) ve fenol giderimi, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (YI) (Tezli), 1994

Araştırma Alanları

Çevre Teknolojisi, Atıksuların Toplanması ve Arıtımı, Su Kirliliği ve Kontrolü, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Ondokuz Mayıs Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2012 - Devam Ediyor

Doç. Dr., Ondokuz Mayıs Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2007 - 2012

Yrd. Doç. Dr., Ondokuz Mayıs Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2000 - 2007

Araştırma Görevlisi, Ondokuz Mayıs Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1992 - 2000

AKADEMİK İDARI DENeyİM

Ondokuz Mayıs Üniversitesi, 2016 - 2018

Ondokuz Mayıs Üniversitesi, 2009 - 2010

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **High-efficiency removal of Rhodamine B using modified biochar from agricultural waste pine nut shell: investigation of kinetics, isotherms, and artificial neural network modeling**
Atalay Erođlu H., Kadioglu E. N., Akbal F.
BIOMASS CONVERSION AND BIOREFINERY, 2024 (SCI-Expanded)
- II. **Artificial neural network modeling of Fenton-based advanced oxidation processes for recycling of textile wastewater**
Kadioglu E. N., Ozturk H., Erođlu H., Akbal F., Kuleyin A., Özkaraoava E. B.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, cilt.136, ss.542-553, 2024 (SCI-Expanded)
- III. **Granular titanium dioxide and silicon-doped titanium dioxide as reusable photocatalysts for dye removal**
Atali S. G., Akbal F., Gurbuz M., Turan B. C.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, cilt.21, sa.3, ss.2024-2036, 2024 (SCI-Expanded)
- IV. **Modeling of Cu(II) adsorption on the activated Phragmites australis waste by fuzzy-based and neural network-based inference systems**
Elver O., Temel F. A., Yolcu O. C., Akbal F., Kuleyin A.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, cilt.129, ss.180-192, 2024 (SCI-Expanded)
- V. **Sustainable wastewater purification with crab shell-derived biochar: Advanced machine learning modeling & experimental analysis**
Bibi A., Khan H., Hussain S., Arshad M., Wahab F., Usama M., Khan K., Akbal F.
BIORESOURTE TECHNOLOGY, cilt.390, 2023 (SCI-Expanded)
- VI. **Combining Electro-Fenton and adsorption processes for reclamation of textile industry wastewater and modeling by Artificial neural Networks**
Kuleyin A., Gok A., Atalay Erođlu H., Özkaraoava E. B., Akbal F., Jada A., Duply J.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, cilt.921, 2022 (SCI-Expanded)
- VII. **Investigation of spatial and seasonal variation of water quality along the mid-Black Sea coast (from Sinop to Ordu) of Turkey, by multivariate statistical**
Üstün Odabaşı S., Ceylan Z., Şentürk İ., Akbal F., Bakan G., Buyukgungor H.
REGIONAL STUDIES IN MARINE SCIENCE, cilt.50, 2022 (SCI-Expanded)
- VIII. **Treatment of textile industry wastewater by electro-Fenton process using graphite electrodes in batch and continuous mode**
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JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, cilt.9, sa.1, 2021 (SCI-Expanded)
- IX. **Elaboration and properties of a new SDS/CTAB@Montmorillonite organoclay composite as a superb adsorbent for the removal of malachite green from aqueous solutions**
Haounati R., Ouachtak H., El Haouti R., Akhouairi S., Largo F., Akbal F., Benlhachemi A., Jada A., Addi A. A.
SEPARATION AND PURIFICATION TECHNOLOGY, cilt.255, 2021 (SCI-Expanded)
- X. **Mesoporous silica synthesized from natural local kaolin as an effective adsorbent for removing of Acid Red 337 and its application in the treatment of real industrial textile effluent**
Slatni I., Elberrichi F. Z., Duplay J., Fardjaoui N. E. H., Guendouzi A., Guendouzi O., Gasmi B., Akbal F., Rekkab I.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.27, sa.31, ss.38422-38433, 2020 (SCI-Expanded)
- XI. **Adsorptive removal of both cationic and anionic dyes by using sepiolite clay mineral as adsorbent: Experimental and molecular dynamic simulation studies**
Largo F., Haounati R., Akhouairi S., Ouachtak H., El Haouti R., El Guerdaoui A., Hafid N., Santos D. M. F., Akbal F., Kuleyin A., et al.
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- XII. **Treatment of zinc plating wastewater by combination of electrocoagulation and ultrafiltration process**
Oztel M. D., Kuleyin A., Akbal F.
WATER SCIENCE AND TECHNOLOGY, cilt.82, sa.4, ss.663-672, 2020 (SCI-Expanded)
- XIII. **Experimental and molecular dynamics simulation study on the adsorption of Rhodamine B dye on magnetic montmorillonite composite gamma-Fe₂O₃@Mt**
Ouachtak H., El Haouti R., El Guerdaoui A., Haounati R., Amaterz E., Addi A. A., Akbal F., Taha M. L.
JOURNAL OF MOLECULAR LIQUIDS, cilt.309, 2020 (SCI-Expanded)
- XIV. **Cationic dyes adsorption by Na-Montmorillonite Nano Clay: Experimental study combined with a theoretical investigation using DFT-based descriptors and molecular dynamics simulations**
El Haouti R., Ouachtak H., El Guerdaoui A., Amedlous A., Amaterz E., Haounati R., Addi A. A., Akbal F., El Alem N., Taha M. L.
JOURNAL OF MOLECULAR LIQUIDS, cilt.290, 2019 (SCI-Expanded)
- XV. **Temporal variation of mercury in Turkish Black Sea waters and associated risk assessment**
Odabasi U. S., Senturk I., Maryam B., Akbal F., Bakan G., Buyukgungor H.
GLOBAL NEST JOURNAL, sa.2, ss.345-354, 2018 (SCI-Expanded)
- XVI. **A comparative study of ozonation, iron coated zeolite catalyzed ozonation and granular activated carbon catalyzed ozonation of humic acid**
GÜMÜŞ D., Akbal F.
CHEMOSPHERE, cilt.174, ss.218-231, 2017 (SCI-Expanded)
- XVII. **Classification and Effects of Sludge Disintegration Technologies Integrated Into Sludge Handling Units: An Overview**
Atay Ş., Akbal F.
CLEAN-SOIL AIR WATER, cilt.44, sa.9, ss.1198-1213, 2016 (SCI-Expanded)
- XVIII. **Comparison of Fenton and electro-Fenton processes for oxidation of phenol**
GÜMÜŞ D., Akbal F.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, cilt.103, ss.252-258, 2016 (SCI-Expanded)
- XIX. **Adsorption of copper from aqueous solution onto natural sepiolite: equilibrium, kinetics, thermodynamics, and regeneration studies**
Donmez M., Camci S., Akbal F., Yagan M.
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- XX. **Arsenite removal by adsorption onto iron oxide-coated pumice and sepiolite**
Oztel M. D., Akbal F., Altas L.
ENVIRONMENTAL EARTH SCIENCES, cilt.73, sa.8, ss.4461-4471, 2015 (SCI-Expanded)
- XXI. **Treatment of metal plating wastewater by electrocoagulation**
Akbal F., Camci S.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, cilt.31, sa.3, ss.340-350, 2012 (SCI-Expanded)
- XXII. **Water and sediment quality assessment in the mid-Black Sea coast of Turkey using multivariate statistical techniques**
Akbal F., Gurel L., Bahadir T., Guler I., Bakan G., Buyukgungor H.
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- XXIII. **Decolorization of Levafix Brilliant Blue E-B by Electrocoagulation Method**
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- XXIV. **Photocatalytic Degradation of Textile Dye and Wastewater**
Gumus D., Akbal F.
WATER AIR AND SOIL POLLUTION, cilt.216, sa.1-4, ss.117-124, 2011 (SCI-Expanded)
- XXV. **Multivariate Statistical Techniques for the Assessment of Surface Water Quality at the Mid-Black Sea Coast of Turkey**
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- XXVI. **Copper, chromium and nickel removal from metal plating wastewater by electrocoagulation**
Akbal F., Camci S.
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- XXVII. **Comparison of Electrocoagulation and Chemical Coagulation for Heavy Metal Removal**
Akbal F., Camci S.
CHEMICAL ENGINEERING & TECHNOLOGY, cilt.33, sa.10, ss.1655-1664, 2010 (SCI-Expanded)
- XXVIII. **Photocatalytic degradation of organic dyes in the presence of titanium dioxide under UV and solar light: Effect of operational parameters**
Akbal F.
ENVIRONMENTAL PROGRESS, cilt.24, sa.3, ss.317-322, 2005 (SCI-Expanded)
- XXIX. **Adsorption of basic dyes from aqueous solution onto pumice powder**
Akbal F.
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- XXX. **Sorption of phenol and 4-chlorophenol onto pumice treated with cationic surfactant**
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JOURNAL OF ENVIRONMENTAL MANAGEMENT, cilt.74, sa.3, ss.239-244, 2005 (SCI-Expanded)
- XXXI. **Photocatalytic degradation of phenol**
Akbal F., Onar A.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.83, sa.3, ss.295-302, 2003 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Colour and COD Removal from Real Textile Wastewater by Using Diatomite**
KULEYİN A., ÖZKARAOVA E. B., AKBAL F.
J. Int., Environmental Application and Science, cilt.15, sa.1, ss.34-40, 2020 (Hakemli Dergi)
- II. **Samsun İli Çevre ve Şehircilik Eylem Planı**
MUTLU A., AKBAL F., BERİTAN S. C.
Samsun İli Çevre ve Şehircilik Eylem Planı, ss.6-102, 2018 (Hakemsiz Dergi)
- III. **Potential Reuse of Treated Industrial Wastewater in Agriculture: Textile Wastewater**
ÖZKARAOVA E. B., AKBAL F., KULEYİN A.
International Scientific Journal Mechanization in Agriculture, sa.4, ss.138-140, 2018 (Hakemli Dergi)
- IV. **Catalytic Ozonation for The Removal of Humic Acid in Water with Iron Coated Zeolite (ICZ)**
GÜMÜŞ D., AKBAL F.
Nevşehir Bilim ve Teknoloji Dergisi, cilt.6, ss.424-430, 2017 (Hakemli Dergi)
- V. **ENVIRONMENTAL POLLUTION ASSESSMENT OF THE BLACK SEA COAST OF TURKEY BASED ON GIS-MAPPING TECHNIQUES**
Bakan G., Şişman A., Akbal F., Büyükgüngör H.
PONTE International Scientific Researchs Journal, cilt.73, sa.6, ss.185-198, 2017 (Hakemli Dergi)
- VI. **ELEKTROKOAGÜLASYON VE KİMYASAL KOAGÜLASYON PROSESLERİYLE TEKSTİL ENDÜSTRİSİ ATIKSUYUNDAN RENK GİDERİMİ**
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Çevre Bilim ve Teknoloji, 2017 (Hakemli Dergi)
- VII. **REMOVAL OF NATURAL ORGANIC MATTER IN DRINKING WATERS AND PREVENTION OF TRIHALOMETHANES FORMATION**
GÜMÜŞ D., Akbal F.
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- VIII. **TRADITIONAL AND ALTERNATIVE TECHNOLOGIES FOR ARSENIC REMOVAL FROM DRINKING WATERS**
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- IX. **The removal of As(V) from drinking waters by coagulation process using Iron salts**
Donmez M., Akbal F.
World Academy of Science, Engineering and Technology, cilt.78, ss.437-439, 2011 (Scopus)

Kitap & Kitap Bölümleri

- I. **WATER QUALITY CRITERIA FOR THE EVALUATION OF TREATED WASTEWATER REUSE AS IRRIGATION WATER**
AKBAL F., KULEYİN A., ÖZKARAOVA E. B.
COOPERATION FOR CLIMATE AND GREEN DEAL BOOK, Prof. Dr. Yüksel ARDALI, Editör, Publications of Ondokuz Mayıs University, Samsun, ss.658-665, 2023
- II. **"Application of Advanced Oxidation Processes in Combined Systems for Wastewater Reuse,"**
AKBAL F., ÖZKARAOVA E. B., KULEYİN A.
An Innovative Approach of Advanced Oxidation Processes for Wastewater Treatment,, Maulin Shah, Editör, Taylor & Francis Group, LLC, Boca Raton, FL, U.S.A , 2022. doi:10.1201/9781003165958, Boca Raton, ss.145-165, 2022
- III. **Application of Advanced Oxidation Processes in Combined Systems for Wastewater Reuse**
AKBAL F., ÖZKARAOVA E. B., KULEYİN A.
Advanced Oxidation Processes for Wastewater Treatment, Maulin P Shah, Sweta Parimita Bera and Günay Yildiz Tore, Editör, CRC Press, Taylor and Franciss Group, Londrina, ss.145-168, 2022

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Textile Wastewater Treatment by TiO₂ Based Photocatalysts**
ATALAY EROĞLU H., AKBAL F., GÜRBÜZ M.
International Conference on Global Practice of Multidisciplinary Scientific Studies-IV, Kıbrıs (Kktc), 28 - 30 Nisan 2023, ss.544-549
- II. **Water Quality Criteria for the Evaluation of Treated Wastewater Reuse as Irrigation Water**
AKBAL F., ÖZKARAOVA E. B., KULEYİN A.
Cooperation for Climate and Green Deal Symposium, 24-26 October 2022, Samsun Turkey, Samsun, Türkiye, 24 Ekim 2022
- III. **Evaluation Of Textile Wastewater Treatment By Electro-Fenton Method Using Different Electrode Pairs And Its Effect On Energy Consumption**
KULEYİN A., Gök A., AKBAL F.
2nd International Conference on Agriculture, Technology, Engineering and Sciences(ICATES 2019), 17 - 20 Eylül 2019
- IV. **Zeolit Kullanılarak Sızıntı Suyundan Amonyak Giderimi**
yeni ö., ARIMAN S., AKBAL F., KULEYİN A.
13. Ulusal 1. Uluslararası Çevre Mühendisliği Kongresi, Gebze, Türkiye, 10 - 12 Ekim 2019, ss.610-620
- V. **Optimizing Continuous Photo-Fenton Process for Removal Color and Organic Compounds From Textile Wastewater**
ATALAY H., AKBAL F.
11th Eastern European Young Water Professionals Conference, Prag, Çek Cumhuriyeti, 1 - 05 Ekim 2019
- VI. **Treatment of Textile Wastewater with Heterogeneous Fenton Oxidation**
ATALAY EROĞLU H., Kadioğlu E. N., AKBAL F., ÖZKARAOVA E. B.
11th Eastern European Young Water Professionals Conference, Prag, Çek Cumhuriyeti, 1 - 05 Ekim 2019
- VII. **PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE USING GRANULAR TiO₂**

ŞAHİN GİRAY A., AKBAL F., GÜRBÜZ M.

3rd International Symposium on Innovative Approaches in Scientific Studies, 19 - 21 Nisan 2019

- VIII. **Selecting suitable fluoride removal technique for developing countries**
Shukra J. N., AKBAL F.
IV. ECOCEE EURASIAN CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 17 - 18 Haziran 2019
- IX. **Removal of Zinc from Industrial Wastewater by Polyelectrolyte Assisted Ultrafiltration Process**
dönmez öztel m., AKBAL F.
Uluslararası Kentsel Su ve Atıksu Yönetimi Sempozyumu (UKSAY)-2018, 25 - 27 Ekim 2018
- X. **Peroksimonosülfat Oksidasyonu İle Tekstil Atıksuyundan Renk Ve Koi Gideriminin İncelenmesi**
Peker M., Gök A., Kadioğlu N., Öztürk H., ATALAY H., KULEYİN A., ÖZKARAOVA E. B., AKBAL F.
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Türkiye, 22 - 24 Mart 2018, ss.2062
- XI. **TEKSTİL ATIKSULARININ ARITIMINDA FOTO-FENTON PROSESİNİN OPTİMİZASYONU**
Öztürk H., Kadioğlu N., ATALAY H., Peker M., KULEYİN A., ÖZKARAOVA E. B., AKBAL F.
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Türkiye, 22 - 24 Mart 2018, ss.592-597
- XII. **GRAFİT-KARBON ELEKTRODLAR KULLANILARAK ELEKTRO-FENTON YÖNTEMİYLE TEKSTİL ATIKSU ARITIMININ DEĞERLENDİRİLMESİ**
Gök A., Peker M., ATALAY H., KULEYİN A., ÖZKARAOVA E. B., AKBAL F.
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- XIII. **TEKSTİL ATIKSUYUNUN FENTON PROSESİ İLE ARITIMINDA OPTİMUM KOŞULLARIN ARAŞTIRILMASI**
Kadioğlu N., Öztürk H., ATALAY H., Gök A., KULEYİN A., ÖZKARAOVA E. B., AKBAL F.
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Türkiye, 22 - 24 Mart 2018, ss.586-591
- XIV. **Catalytic Ozonation for The Removal of Humic Acid in Water with Iron Coated Zeolite (ICZ)**
GÜMÜŞ D., AKBAL F.
2nd International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia), Nevşehir, Türkiye, 8 - 10 Mayıs 2017
- XV. **TREATMENT OF REAL TEXTILE WASTEWATER BY USING DIATOMITE**
ÖZKARAOVA E. B., KULEYİN A., AKBAL F., CEYLAN A., ÇORUHLU S.
2nd IWA Regional Symposium on Water, Wastewater and Environment, 22 - 24 Mart 2017
- XVI. **ORTA KARADENİZ SAHİLİNDE DENİZ SUYU KARBON KİRLİLİĞİNİN BELİRLENMESİ**
ŞENTÜRK İ., BAKAN G., ÜSTÜN ODABAŞI S., AKBAL F., BÜYÜKGÜNGÖR H.
INTERNATIONAL SYMPOSIUM OF WATER AND WASTEWATER MANAGEMENT, 26 - 28 Ekim 2016
- XVII. **Monitoring of seasonal organic and inorganic pollution at the mid Black Sea coast of Turkey**
ÜSTÜN ODABAŞI S., ŞENTÜRK İ., AKBAL F., BAKAN G., BÜYÜKGÜNGÖR H., MARYAM B., MARYAM B.
1st International Black Sea congress on Environmental Sciences, Giresun, Türkiye, 31 Ağustos - 03 Eylül 2016
- XVIII. **Orta Karadeniz Sahilinde Deniz Suyu Karbon Kirliliğinin Belirlenmesi**
Şentürk İ., Üstün Odabaşı S., Akbal F., Bakan G., Büyükgüngör H.
ULUSLARARASI KENTSEL SU VE ATIK SU YÖNETİMİ SEMPOZYUMU (UKSAY), Giresun, Türkiye, 26 - 28 Ekim 2016, ss.637-642
- XIX. **Marine Water Quality at the Mid Black Sea Coast of Turkey**
Şentürk İ., Üstün Odabaşı S., Bakan G., Akbal F., Büyükgüngör H.
ULUSLARARASI KENTSEL SU VE ATIK SU YÖNETİMİ SEMPOZYUMU (UKSAY), Malatya, Türkiye, 26 - 28 Ekim 2016, ss.836-843
- XX. **Removal of Nickel From Industrial Wastewater by Electrocoagulation and Ultrafiltration Process**
Dönmez Öztel M., AKBAL F.
1st INTERNATIONALBLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, 31 Ağustos - 03 Eylül 2016
- XXI. **Monitoring of Seasonal Organic and Inorganic Pollution at the Mid Black Sea of Coastline of Turkey**
Üstün Odabaşı S., Bareera M., Şentürk İ., Akbal F., Bakan G., Büyükgüngör H.
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- XXII. **Humic Acid Removal by Adsorption onto Iron Oxide Coated Zeolite**
GÜMÜŞ D., AKBAL F.

- International Congress on Water, Waste and Energy Management, 18 - 20 Temmuz 2016
- XXIII. **Removal of zinc from industrial wastewater by electrocoagulation assisted ultrafiltration process**
dönmez öztel m., AKBAL F., KULEYİN A.
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- XXIV. **Effects of Aerobic Sludge Stabilization on Sludge Properties**
Atay Ş., Akbal F.
Eurasia Waste Management Symposium, İstanbul, Türkiye, 2 - 04 Mayıs 2016, ss.767-771
- XXV. **Assessment of Seasonal and Spatial Variations in Marine Water Quality at the Mid Black Sea Shore of Turkey**
Akçam E., Üstün Odabaşı S., Şentürk İ., Geçer E., Bakan G., Akbal F., Büyükgüngör H.
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- XXVI. **Improved Natural Organic Matter Removal by Adsorption Ultrafiltration System**
AKBAL F., GÜMÜŞ D.
AquaConSoil 2015, 2 - 12 Haziran 2015
- XXVII. **Fenton Process for The Purification of Polluted Waters**
GÜNGÖR E. B., KULEYİN A., AKBAL F., orkun m. o., GÜMÜŞ D.
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- XXVIII. **Monitoring of Seasonal and Spatial Variations in Marine Water Quality at the Mid Black Sea Coast of Turkey**
Şentürk İ., Üstün Odabaşı S., Öztel M., Özkaynak H., Akçam E., Geçer E., Akbal F., Bakan G., Büyükgüngör H.
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- XXIX. **The Effect of Ultrasonic Disintegration Technology on Sludge Solubilization**
Atay Ş., Akbal F.
4th European Conference on Sludge Management, İzmir, Türkiye, 26 - 27 Mayıs 2014, ss.60
- XXX. **Biological Disintegration Techniques to Enhance Sludge Stabilization**
Atay Ş., Akbal F.
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- XXXI. **Mekanik, Termal ve Kimyasal Dezentegrasyon Teknolojilerinin Çamur Stabilizasyonuna Etkisi**
Atay Ş., Akbal F.
10. Ulusal Çevre Mühendisliği Kongresi, Ankara, Türkiye, 12 - 14 Eylül 2013, ss.489-493
- XXXII. **Aritma Çamuru Miktarının Azaltılmasında Gerçek Ölçekli Termal Aritma Prosesleri**
Atay Ş., Akbal F.
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Türkiye, 9 - 12 Eylül 2013, ss.1314-1318
- XXXIII. **The Sludge Disintegration Techniques Integrated in the Sludge Handling Units**
Atay Ş., Akbal F.
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Desteklenen Projeler

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