

# Prof. Feryal Akbal

## Personal Information

**Office Phone:** [+90 362 312 1919](tel:+903623121919) Extension: 1222

**Email:** fakbal@omu.edu.tr

**Web:** <https://avesis.omu.edu.tr/fakbal>

## International Researcher IDs

ScholarID: pAi9UjcAAAAJ

ORCID: 0000-0001-6871-928X

Publons / Web Of Science ResearcherID: CBB-2457-2022

ScopusID: 9239686500

Yoksis Researcher ID: 15621

## Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), Turkey 1994 - 1999

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1987 - 1991

## Foreign Languages

English, C1 Advanced

## Dissertations

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

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

## Research Areas

Environmental Technology, Waste Water Collection and Treatment, Water Pollution and Control, Engineering and Technology

## Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2012 - Continues

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2007 - 2012

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2000 - 2007

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1992 - 2000

## Academic and Administrative Experience

Ondokuz Mayıs University, 2016 - 2018

Ondokuz Mayıs University, 2009 - 2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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 Eroğlu 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., Eroglu H., Akbal F., Kuleyin A., Özkaraova E. B.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.136, pp.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, vol.21, no.3, pp.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, vol.129, pp.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.  
BIORESOURCETECHNOLOGY, vol.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 Eroğlu H., Özkaraova E. B., Akbal F., Jada A., Duply J.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.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, vol.50, 2022 (SCI-Expanded)
- VIII. **Treatment of textile industry wastewater by electro-Fenton process using graphite electrodes in batch and continuous mode**  
Kuleyin A., Gok A., Akbal F.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.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., Benhachemi A., Jada A., Addi A. A.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.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, vol.27, no.31, pp.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.

JOURNAL OF MOLECULAR LIQUIDS, vol.318, 2020 (SCI-Expanded)

- XII. **Treatment of zinc plating wastewater by combination of electrocoagulation and ultrafiltration process**  
Oztel M. D., Kuleyin A., Akbal F.  
WATER SCIENCE AND TECHNOLOGY, vol.82, no.4, pp.663-672, 2020 (SCI-Expanded)
- XIII. **Experimental and molecular dynamics simulation study on the adsorption of Rhodamine B dye on magnetic montmorillonite composite gamma-Fe<sub>2</sub>O<sub>3</sub>@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, vol.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, vol.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, no.2, pp.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, vol.174, pp.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, vol.44, no.9, pp.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, vol.103, pp.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.  
DESALINATION AND WATER TREATMENT, vol.54, no.10, pp.2868-2882, 2015 (SCI-Expanded)
- XX. **Arsenite removal by adsorption onto iron oxide-coated pumice and sepiolite**  
Oztel M. D., Akbal F., Altas L.  
ENVIRONMENTAL EARTH SCIENCES, vol.73, no.8, pp.4461-4471, 2015 (SCI-Expanded)
- XXI. **Treatment of metal plating wastewater by electrocoagulation**  
Akbal F., Camci S.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.31, no.3, pp.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.  
ENVIRONMENTAL EARTH SCIENCES, vol.64, no.5, pp.1387-1395, 2011 (SCI-Expanded)
- XXIII. **Decolorization of Levafix Brilliant Blue E-B by Electrocoagulation Method**  
Akbal F., Kuleyin A.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.30, no.1, pp.29-36, 2011 (SCI-Expanded)
- XXIV. **Photocatalytic Degradation of Textile Dye and Wastewater**  
Gumus D., Akbal F.  
WATER AIR AND SOIL POLLUTION, vol.216, no.1-4, pp.117-124, 2011 (SCI-Expanded)
- XXV. **Multivariate Statistical Techniques for the Assessment of Surface Water Quality at the Mid-Black Sea Coast of Turkey**  
Akbal F., Gurel L., Bahadir T., Guler I., Bakan G., Buyukgungor H.

- WATER AIR AND SOIL POLLUTION, vol.216, no.1-4, pp.21-37, 2011 (SCI-Expanded)
- XXVI. **Copper, chromium and nickel removal from metal plating wastewater by electrocoagulation**  
Akbal F., Camci S.  
DESALINATION, vol.269, no.1-3, pp.214-222, 2011 (SCI-Expanded)
- XXVII. **Comparison of Electrocoagulation and Chemical Coagulation for Heavy Metal Removal**  
Akbal F., Camci S.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.33, no.10, pp.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, vol.24, no.3, pp.317-322, 2005 (SCI-Expanded)
- XXIX. **Adsorption of basic dyes from aqueous solution onto pumice powder**  
Akbal F.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.286, no.2, pp.455-458, 2005 (SCI-Expanded)
- XXX. **Sorption of phenol and 4-chlorophenol onto pumice treated with cationic surfactant**  
Akbal F.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.74, no.3, pp.239-244, 2005 (SCI-Expanded)
- XXXI. **Photocatalytic degradation of phenol**  
Akbal F., Onar A.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.83, no.3, pp.295-302, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- 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, vol.15, no.1, pp.34-40, 2020 (Peer-Reviewed Journal)
- II. **Samsun İli Çevre ve Şehircilik Eylem Planı**  
MUTLU A., AKBAL F., BERİTAN S. C.  
Samsun İli Çevre ve Şehircilik Eylem Planı, pp.6-102, 2018 (Non Peer-Reviewed Journal)
- III. **Potential Reuse of Treated Industrial Wastewater in Agriculture: Textile Wastewater**  
ÖZKARAOVA E. B., AKBAL F., KULEYİN A.  
International Scientific Journal Mechanization in Agriculture, no.4, pp.138-140, 2018 (Peer-Reviewed Journal)
- 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, vol.6, pp.424-430, 2017 (Peer-Reviewed Journal)
- 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, vol.73, no.6, pp.185-198, 2017 (Peer-Reviewed Journal)
- VI. **ELEKTROKOAGÜLASYON VE KİMYASAL KOAGÜLASYON PROSESLERİYLE TEKSTİLENDÜSTRİSİ ATIKSUYUNDAN RENK GİDERİMİ**  
ÖZYURT A., AKBAL F.  
Çevre Bilim ve Teknoloji, 2017 (Peer-Reviewed Journal)
- VII. **REMOVAL OF NATURAL ORGANIC MATTER IN DRINKING WATERS AND PREVENTION OF TRIHALOMETHANES FORMATION**  
GÜMÜŞ D., Akbal F.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.31, no.4, pp.529-553, 2013 (ESCI)
- VIII. **TRADITIONAL AND ALTERNATIVE TECHNOLOGIES FOR ARSENIC REMOVAL FROM DRINKING WATERS**

Ozgel M. D., Akbal F.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.31, no.3, pp.386-408, 2013 (ESCI)

**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, vol.78, pp.437-439, 2011 (Scopus)

## **Books & Book Chapters**

**I. WATER QUALITY CRITERIA FOR THE EVALUATION OF TREATED WASTEWATER REUSE AS IRRIGATION WATER**

AKBAL F., KULEYİN A., ÖZKARAOVA E. B.

in: COOPERATION FOR CLIMATE AND GREEN DEAL BOOK, Prof. Dr. Yüksel ARDALI, Editor, Publications of Ondokuz Mayıs University, Samsun, pp.658-665, 2023

**II. "Application of Advanced Oxidation Processes in Combined Systems for Wastewater Reuse,"**

AKBAL F., ÖZKARAOVA E. B., KULEYİN A.

in: An Innovative Approach of Advanced Oxidation Processes for Wastewater Treatment,, Maulin Shah, Editor, Taylor & Francis Group, LLC, Boca Raton, FL, U.S.A , 2022. doi:10.1201/9781003165958, Boca Raton, pp.145-165, 2022

**III. Application of Advanced Oxidation Processes in Combined Systems for Wastewater Reuse**

AKBAL F., ÖZKARAOVA E. B., KULEYİN A.

in: Advanced Oxidation Processes for Wastewater Treatment, Maulin P Shah, Sweta Parimita Bera and Günay Yildiz Tore, Editor, CRC Press, Taylor and Francis Group, Londrina, pp.145-168, 2022

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Textile Wastewater Treatment by TiO<sub>2</sub> Based Photocatalysts**

ATALAY EROĞLU H., AKBAL F., GÜRBÜZ M.

International Conference on Global Practice of Multidisciplinary Scientific Studies-IV, Cyprus (Kktc), 28 - 30 April 2023, pp.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, Turkey, 24 October 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 September 2019

**IV. Zeolit Kullanılarak Sızıntı Suyundan Amonyak Giderimi**

Yeni Ö., ARIMAN S., AKBAL F., KULEYİN A.

13. Ulusal 1. Uluslararası Çevre Mühendisliği Kongresi, Gebze, Turkey, 10 - 12 October 2019, pp.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, Czech Republic, 1 - 05 October 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, Czech Republic, 1 - 05 October 2019

- VII. **PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE USING GRANULAR TiO<sub>2</sub>**  
ŞAHİN GİRAY A., AKBAL F., GÜRBÜZ M.  
3rd International Symposium on Innovative Approaches in Scientific Studies, 19 - 21 April 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 June 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 October 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, Turkey, 22 - 24 March 2018, pp.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, Turkey, 22 - 24 March 2018, pp.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.  
Uluslararası Su ve Çevre Kongresi SUÇEV, Bursa, Turkey, 22 - 24 March 2018, pp.598-603
- 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, Turkey, 22 - 24 March 2018, pp.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, Turkey, 8 - 10 May 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 March 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 October 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, Turkey, 31 August - 03 September 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, Turkey, 26 - 28 October 2016, pp.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, Turkey, 26 - 28 October 2016, pp.836-843
- XX. **Removal of Nickel From Industrial Wastewater by Electrocoagulation and Ultrafiltration Process**  
Dönmez Öztel M., AKBAL F.  
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, 31 August - 03 September 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.  
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, Giresun, Turkey, 31 August - 03 September 2016, pp.793-801
- 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 July 2016
- XXIII. **Removal of zinc from industrial wastewater by electrocoagulation assisted ultrafiltration process**  
dönmez öztel m., AKBAL F., KULEYİN A.  
International Congress on Water, Waste and Energy Management, 18 - 20 July 2016
- XXIV. **Effects of Aerobic Sludge Stabilization on Sludge Properties**  
Atay Ş., Akbal F.  
Eurasia Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016, pp.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.  
1st Interntional Conference on Sea and Coastal Development in the Frame of Sustainability (MACODESU), Trabzon, Turkey, 18 - 20 September 2015, pp.34-40
- XXVI. **Improved Natural Organic Matter Removal by Adsorption Ultrafiltration System**  
AKBAL F., GÜMÜŞ D.  
AquaConSoil 2015, 2 - 12 June 2015
- XXVII. **Fenton Process for The Purification of Polluted Waters**  
GÜNGÖR E. B., KULEYİN A., AKBAL F., orkun m. o., GÜMÜŞ D.  
AquaConSoil 2015, 2 - 12 June 2015
- XXVIII. **Monitoring of Seasonal and Spatial Variations in Marine Water Quality at the Mid Black Sea Coastof Turkey**  
Şentürk İ., Üstün Odabaşı S., Öztel M., Özkaynak H., Akçam E., Geçer E., Akbal F., Bakan G., Büyükgüngör H.  
ICOCEE Cappadocia 2015, Nevşehir, Turkey, 20 - 23 May 2015, pp.159
- XXIX. **The Effect of Ultrasonic Disintegration Technology on Sludge Solubilization**  
Atay Ş., Akbal F.  
4th European Conference on Sludge Management, İzmir, Turkey, 26 - 27 May 2014, pp.60
- XXX. **Biological Disintegration Techniques to Enhance Sludge Stabilization**  
Atay Ş., Akbal F.  
Eurasia Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.1015-1020
- XXXI. **Mekanik, Termal ve Kimyasal Dezentegrasyon Teknolojilerinin Çamur Stabilizasyonuna Etkisi**  
Atay Ş., Akbal F.  
10. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 12 - 14 September 2013, pp.489-493
- XXXII. **Aritma Çamuru Miktarının Azaltılmasında Gerçek Ölçekli Termal Aritma Prosesleri**  
Atay Ş., Akbal F.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1314-1318
- XXXIII. **The Sludge Disintegration Techniques Integrated in the Sludge Handling Units**  
Atay Ş., Akbal F.  
International Conference on Environmental Science and Technology, Nevşehir, Turkey, 18 - 21 June 2013, pp.360-361

## Supported Projects

Akbal F., Project Supported by Higher Education Institutions, Güneş Enerjisi Destekli Distilasyon Yöntemi ile Deniz Suyundan İçme Suyu Üretimi, 2022 - 2023

Akbal F., Project Supported by Higher Education Institutions, Grafitik Karbon Nitrür Sentezi ve Fotokatalitik Performansının İncelenmesi, 2022 - 2023

Akbal F., Project Supported by Higher Education Institutions, 3rd International Congress on Water, Waste and Energy Management (EWWM), 2016 - 2016

Akbal F., Project Supported by Higher Education Institutions, 5th EuCheMS Chemistry Congress 2014, 2016 - 2016

Akbal F., Project Supported by Higher Education Institutions, AquaConSoil 2015, 2015 - 2016

Ardalı Y., Akbal F., Bakan G., Turan N. G., Kuleyin A., Beyazıt N., Gümüş A., Şişman A., Atay Ş., Aykaç Özen H., et al, Project Supported by Other Official Institutions, Derin Deniz Deşarjı Tasarım Kriterlerinin Belirlenmesi Projesi, 2015 - 2015