

## Prof. AYŞEGÜL AKSOY

### Personal Information

Office Phone: [+90 210 587 4](tel:+902105874)

Email: [aaksoy@metu.edu.tr](mailto:aaksoy@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/aaksoy>

### International Researcher IDs

ScholarID: ANPNh2EAAAAJ

ORCID: 0000-0003-0099-348X

Publons / Web Of Science ResearcherID: G-3053-2011

ScopusID: 7007041120

Yoksis Researcher ID: 164013

### Education Information

Doctorate, University of Virginia, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, United States Of America 1996 - 2000

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Çevre Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey 1987 - 1991

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Impact of kinetic sorption and heterogeneities on aquifer remediation design and costs, University Of Virginia, İnşaat Mühendisliği Bölümü, 2000

Postgraduate, Development of a novel regenerable sorbent for hot gas desulfurization, Middle East Technical University, Graduate School of Natural and Applied Sciences, Çevre Mühendisliği (YI) (Tezli), 1994

### Research Areas

Environmental Engineering, Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2015 - Continues

Professor, Stanford University, School Of Engineering, Nsf Erc Renuwit, 2015 - 2016

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering,

2011 - 2015

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2003 - 2011

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2002 - 2003

Expert, University of California, Davis, School Of Engineering, Civil And Environmental Engineering, 2001 - 2002

Research Assistant, The University of Virginia, School Of Engineering, Civil Engineering Department, 1996 - 2000

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 1992 - 1995

## Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2012 - 2015

Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeodezi Ve Coğrafi Bilgi Teknolojileri (YI) (Tezli), 2011 - 2012

Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2006 - 2009

## Courses

SOLID WASTE MANAGEMENT, Undergraduate, 2019 - 2020

HEURISTIC OPTIMIZATION AND MODELING OF ENVIRONMENTAL SYSTEMS, Postgraduate, 2018 - 2019

Environmental systems engineering, Postgraduate, 2019 - 2020

Transport Processes in Environmental Engineering, Undergraduate, 2013 - 2014

## Advising Theses

Aksoy A., Sanin F. D., COST-BASED OPTIMIZATION OF LAND APPLICATION OF SLUDGE IN GEDIZ BASIN, Postgraduate, A.UMUT(Student), 2022

Aksoy A., Comparison of BEST and LEED green building rating systems through cost based optimization, Postgraduate, B.UĞURLU(Student), 2022

Aksoy A., Sanin F. D., COMPREHENSIVE META ANALYSIS OF WORLDWIDE LANDFILL LEACHATE, Doctorate, D.ERGENE(Student), 2022

Bayramoğlu T. H., Aksoy A., Evaluation of wastewater treatment alternatives for different water reuse applications with modeling and cost analysis, Postgraduate, P.Uyanık(Student), 2020

Aksoy A., Waste Inventory for a Refrigerator Manufacturing Plant, Postgraduate, C.DÖNMEZOĞLU(Student), 2019

Aksoy A., Bayramoğlu T. H., Comparison of energy consumption and carbon footprint of wastewater treatment systems through modeling, Postgraduate, B.OKAN(Student), 2019

AKSOY A., Modelling and Assessment of Landfill Gas Generation at Afyonkarahisar Landfill Site, Postgraduate, S.Karayılan(Student), 2018

AKSOY A., SANİN F. D., Evaluation of dewatered and partially dried sewage sludge combustion based on energy balance and carbon footprint, Postgraduate, E.CALBAY(Student), 2018

SANİN F. D., AKSOY A., Effects of ultrasound pretreatment and anaerobic digestion on the energy potential of sludge, Postgraduate, E.Berkay(Student), 2015

AKSOY A., Assessment and prediction of water quality parameters in Lake Köyceğiz using artificial neural network approach, Postgraduate, O.Özçelik(Student), 2015

KENTEL ERDOĞAN E., AKSOY A., Evaluation of BTEX concentrations in selected industries producing and applying paint based on human health risks through inhalation /, Postgraduate, G.Naz(Student), 2014

SANİN F. D., AKSOY A., Evaluation of solar sludge drying alternatives on costs and area requirements, Postgraduate,

M.Kurt(Student), 2014

AKSOY A., Spatial data analysis for monitoring and prediction of selected water quality parameters in reservoirs: Porsuk dam reservoir case, Doctorate, F.Yenilmez(Student), 2014

AKSOY A., Investigation of non-point source pollution potential in the watershed of Porsuk dam reservoir, Postgraduate, E.Küçük(Student), 2013

SANIN F. D., AKSOY A., A transport cost-based optimization for arable land application of municipal sludge in Ankara, Postgraduate, M.Görgüner(Student), 2013

AKSOY A., Interactions of water and sediment phosphorus in Lake Eymir, Postgraduate, T.Pilevneli(Student), 2013

AKSOY A., Investigation of light attenuation in lake Eymir, Postgraduate, S.Atiker(Student), 2012

AKSOY A., Determination of chlorophyll-a distribution in Lake Eymir using regression and artificial neural network models with hybrid inputs, Postgraduate, O.Yüzügüllü(Student), 2011

AKSOY A., Route optimization for solid waste transportation using parallel hybrid genetic algorithms, Postgraduate, S.Onur(Student), 2010

AKSOY A., Development of an environmental pollution index for the middle section of Seyhan Basin, Postgraduate, M.Gölge(Student), 2010

Aksoy A., Ünlü K., Development of a fuzzy rule based remedial priority ranking system for contaminated sites, Postgraduate, Ş.Polat(Student), 2009

Aksoy A., Düzgün H. Ş., Investigation of the spatial relationship of municipal solid waste generation in Turkey with socio-economic, demographic and climatic factors, Postgraduate, S.Keser(Student), 2009

AKSOY A., Analysis of the heterogeneity scale effects on pump and treat aquifer remediation design, Doctorate, G.Güngör(Student), 2009

AKSOY A., Modeling the water quality of lake Eymir using artificial neural networks (ANN) and adaptive neuro fuzzy inference system (ANFIS), Postgraduate, M.Aslan(Student), 2008

AKSOY A., Interactions of water and sediment phosphorus in Lake Eymir, Postgraduate, F.Yenilmez(Student), 2007

AKSOY A., Modeling the water quality in Ulubat Lake, Postgraduate, F.Yenilmez(Student), 2007

AKSOY A., Investigation of algae distribution in eymir lake using site measurements and remotely sensed data, Postgraduate, T.Elahdab(Student), 2006

AKSOY A., Assessment of management policies for lake Uluabat basin using AVSWAT, Postgraduate, E.Bulut(Student), 2005

AKSOY A., Assessment of management policies for lake Ulubat basin using avswat, Postgraduate, E.Bulut(Student), 2005

AKSOY A., Modeling of activated sludge process by using artificial neural networks, Postgraduate, H.Moral(Student), 2004

AKSOY A., Application of genetic algorithms to calibration and verification of QUAL2E model, Postgraduate, R.Kaya(Student), 2004

AKSOY A., Application of genetic algorithms to calibration and verification of QUAL2E, Postgraduate, R.Kaya(Student), 2004

## Designed Lessons

Aksoy A., Heuristic optimization and modeling of environmental systems, Postgraduate, 2014 - 2015

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

- I. **Model-based comparison of biological wastewater and sludge treatment combinations for nutrient removal, sludge and biogas production**  
Okan B., AKSOY A., BAYRAMOĞLU T. H.  
Journal of Water Process Engineering, vol.55, 2023 (SCI-Expanded)
- II. **Evaluation of 3-D spatial distribution of dissolved oxygen concentrations in a eutrophic lake**  
YENİLMEZ F., Düzgün Ş., AKSOY A.

- Environmental Science and Pollution Research, vol.30, no.18, pp.54106-54118, 2023 (SCI-Expanded)
- III. **Plant-wide modeling of a metropolitan wastewater treatment plant to reduce energy consumption and carbon footprint**  
Okan B., BAYRAMOĞLU T. H., AKSOY A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.6, pp.16068-16080, 2023 (SCI-Expanded)
- IV. **Comprehensive analysis and modeling of landfill leachate**  
Ergene D., Aksoy A., Sanin F. D.  
WASTE MANAGEMENT, vol.145, pp.48-59, 2022 (SCI-Expanded)
- V. **Qualitative and quantitative assessment of waste generation in a refrigerator-manufacturing plant based on a waste tree and mass balance**  
Donmezoglu Olmez C., Aksoy A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.5, pp.6977-6989, 2022 (SCI-Expanded)
- VI. **Maximizing the energy potential of urban sludge treatment: An experimental study and a scenario-based energy analysis focusing on anaerobic digestion with ultrasound pretreatment and sludge combustion**  
ÇELEBİ E. B., AKSOY A., SANİN F. D.  
ENERGY, vol.221, 2021 (SCI-Expanded)
- VII. **Development of a fate and transport model for biodegradation of PBDE congeners in sediments**  
Karakas F., Aksoy A., İmamoğlu İ.  
Environmental Pollution, vol.266, 2020 (SCI-Expanded)
- VIII. **Effects of anaerobic digestion enhanced by ultrasound pretreatment on the fuel properties of municipal sludge**  
Çelebi E. B., Aksoy A., Sanin F. D.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.14, pp.17350-17358, 2020 (SCI-Expanded)
- IX. **Parallel Hybrid Genetic Algorithm and GIS-Based Optimization for Municipal Solid Waste Collection Routing**  
Düzgün H. Ş., UşKay S. O., Aksoy A.  
Journal of Computing in Civil Engineering, vol.30, no.3, 2016 (SCI-Expanded)
- X. **Evaluation of solar sludge drying alternatives by costs and area requirements**  
Kurt M., Aksoy A., Sanin F. D.  
WATER RESEARCH, vol.82, pp.47-57, 2015 (SCI-Expanded)
- XI. **A Fuzzy Rule Based Remedial Priority Ranking System for Contaminated Sites**  
Polat S., Aksoy A., Ünlü K.  
GROUNDWATER, vol.53, no.2, pp.317-327, 2015 (SCI-Expanded)
- XII. **A transport cost-based optimization for recycling of municipal sludge through application on arable lands**  
Görgüner M., Aksoy A., Sanin F. D.  
RESOURCES CONSERVATION AND RECYCLING, vol.94, pp.146-156, 2015 (SCI-Expanded)
- XIII. **An evaluation of potential sampling locations in a reservoir with emphasis on conserved spatial correlation structure**  
YENİLMEZ F., Duzgun S., AKSOY A.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.1, 2015 (SCI-Expanded)
- XIV. **Generation of the bathymetry of a eutrophic shallow lake using WorldView-2 imagery**  
YÜZÜGÜLLÜ O., AKSOY A.  
JOURNAL OF HYDROINFORMATICS, vol.16, no.1, pp.50-59, 2014 (SCI-Expanded)
- XV. **Development of pollution indices for the middle section of the Lower Seyhan Basin (Turkey)**  
GÖLGE M., YENİLMEZ F., AKSOY A.  
ECOLOGICAL INDICATORS, vol.29, pp.6-17, 2013 (SCI-Expanded)
- XVI. **Comparison of phosphorus reduction alternatives in control of nutrient concentrations in Lake Uluabat (Bursa, Turkey): Partial versus full sediment dredging**  
YENİLMEZ F., AKSOY A.

- LIMNOLOGICA, vol.43, no.1, pp.1-9, 2013 (SCI-Expanded)
- XVII. **Application of spatial and non-spatial data analysis in determination of the factors that impact municipal solid waste generation rates in Turkey**  
KESER S., Duzgun S., AKSOY A.  
WASTE MANAGEMENT, vol.32, no.3, pp.359-371, 2012 (SCI-Expanded)
- XVIII. **Change in optimal pump-and-treat remediation design and cost for different correlation lengths of spatially variable hydraulic conductivity field**  
Gungor-Demirci G., AKSOY A.  
QUARTERLY JOURNAL OF ENGINEERING GEOLOGY AND HYDROGEOLOGY, vol.44, no.4, pp.469-480, 2011 (SCI-Expanded)
- XIX. **Variation in time-to-compliance for pump-and-treat remediation of mass transfer-limited aquifers with hydraulic conductivity heterogeneity**  
Gungor-Demirci G., AKSOY A.  
ENVIRONMENTAL EARTH SCIENCES, vol.63, no.6, pp.1277-1288, 2011 (SCI-Expanded)
- XX. **Challenges in Development and Implementation of Health-Risk-Based Soil Quality Guidelines: Turkey's Experience**  
KENTEL E., AKSOY A., Buyuker B., Dilek F. B., Girgin S., Ipek M. H., Polat S., YETİŞ Ü., ÜNLÜ K.  
RISK ANALYSIS, vol.31, no.4, pp.657-667, 2011 (SCI-Expanded)
- XXI. **Evaluation of pollution levels at an abandoned coal mine site in Turkey with the aid of GIS**  
YENİLMEZ F., Kuter N., EMİL M. K., AKSOY A.  
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.86, no.1, pp.12-19, 2011 (SCI-Expanded)
- XXII. **Water quality trend analysis in Eymir Lake, Ankara**  
YENİLMEZ F., KESKİN F., AKSOY A.  
PHYSICS AND CHEMISTRY OF THE EARTH, vol.36, pp.135-140, 2011 (SCI-Expanded)
- XXIII. **Evaluation of the genetic algorithm parameters on the optimization performance: a case study on pump-and-treat remediation design**  
Gungor-Demirci G., AKSOY A.  
TOP, vol.18, no.2, pp.303-320, 2010 (SCI-Expanded)
- XXIV. **Modeling of the activated sludge process by using artificial neural networks with automated architecture screening**  
MORAL H., AKSOY A., Golcay C. F.  
COMPUTERS & CHEMICAL ENGINEERING, vol.32, no.10, pp.2471-2478, 2008 (SCI-Expanded)
- XXV. **Impact of fertilizer usage on phosphorus loads to Lake Uluabat**  
BULUT E., AKSOY A.  
DESALINATION, vol.226, pp.289-297, 2008 (SCI-Expanded)
- XXVI. **Calibration and verification of QUAL2E using Genetic algorithm optimization**  
GÖKTAŞ R. K., AKSOY A.  
Journal of Water Resources Planning and Management, vol.133, no.2, pp.126-136, 2007 (SCI-Expanded)
- XXVII. **Impacts of physical and chemical heterogeneities on aquifer remediation design**  
AKSOY A., Culver T. B.  
Journal of Water Resources Planning and Management, vol.130, no.4, pp.311-320, 2004 (SCI-Expanded)
- XXVIII. **Effect of sorption assumptions on aquifer remediation designs**  
Aksoy A., CULVER T.  
GROUND WATER, vol.38, no.2, pp.200-208, 2000 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Arıtma çamurlarının kurutulmasında sera tipi kurutucular ve güneş panellerinin birlikte kullanımının maliyetler bazında incelenmesi**  
ÇELEBİ E. B., AKSOY A., SANİN F. D.

Çevre Biim ve Teknoloji, vol.1, no.2, pp.106-124, 2016 (Peer-Reviewed Journal)

**II. Arıtma Çamurlarının Kurutulmasında Sera Tipi Kurutucular ve Güneş Panellerinin Birlikte Kullanımının Maliyetler Bazında İncelenmesi**

KURT M., AKSOY A., SANİN F. D.

Çevre Bilim ve Teknolojisi, 2016 (Peer-Reviewed Journal)

**III. Comparison of continuous and pulsed pump and treat for mass transfer limited aquifers**

AKSOY A., CULVER T.

Turkish Journal of Engineering and Environmental Sciences, vol.28, pp.307-316, 2004 (Scopus)

## **Books & Book Chapters**

**I. Dynamic optimal design of groundwater remediation using genetic algorithms**

AMY C. H., AKSOY A., TERESA C.

in: Physical and Chemical Remediation of Contaminated Aquifers, James A. Smith, Susan Burns, Editor, Kluwer Academic/Plenum Publishers, New-York, pp.1-21, 2001

**II. Cleaner energy production technologies for fossil fuels**

AKSOY A., ATIMTAY A.

in: Cleaner Technologies and Cleaner Products for Sustainable Development, H.M. Freeman, Z. Puskas, R. Olbina, Editor, Springer-Verlag, pp.279-289, 1995

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

**I. Bölgesel Bazda Karaçi Şehrinin (Pakistan) Belediye Katı Atıkların Karakterizasyonu**

Bulut Ahmad T., ERGUDER T. H., AKSOY A.

11.Ulusal Katı Atık Yönetimi Kongresi, UKAY 2023, Ardahan, Turkey, 18 - 21 October 2023, pp.106-107

**II. Development of predictive models for shallow lake turnovers**

Lam M. Y., Yücel Bilen Ö., Ünalın U. B., Çelebi E. B., Aksoy A., Ahmadian R.

40th IAHR World Congress, Vienna, Austria, 21 - 25 August 2023, pp.2290-2296

**III. Near real-time depth change monitoring on inland water bodies using Sentinel-1 and Dynamic World data**

Ünalın U. B., Yüzügüllü O., Aksoy A.

EGU General Assembly 2023, Vienna, Austria, 24 - 28 April 2023, pp.23649

**IV. Investigation of the Impact of Landfill Age and Climate Factors on Landfill Leachate Characteristics**

ERGENE ŞENTÜRK D., AKSOY A., SANİN F. D.

6th EURASIA Waste Management Symposium, 24 October 2022

**V. BEST, YEŞİL BİNA DERECELENDİRME SİSTEMİ, SERTİFİKASYONUNUN DÜŞÜK MALİYET İLEELDE EDİLMESİNE YÖNELİK OPTİMİZASYON UYGULAMASI**

Uğurlu B., Aksoy A.

14. Ulusal 2.Uluslararası Çevre Mühendisliği Kongresi, 9 - 11 December 2021, pp.246-252

**VI. Otonom su devrilmesi izleme-uyarı-müdahale sistemi**

Şanlı E. B., Şimşir S., Sömek S. K., Kallım A., Yücel Bilen Ö., Çelebi E. B., Ünalın U. B., Ahmadian R., Demir Ş., Aksoy A.

14. Ulusal 2.Uluslararası Çevre Mühendisliği Kongresi, 09 December 2021, pp.279-284

**VII. An autonomous system for minimization of turnover effects in eutrophic lakes**

Şimşir S., Sömek S. K., Şanlı E. B., Aydoğa K., Yücel Bilen Ö., Çelebi E. B., Ünalın U. B., Reza A., Demir Ş., Aksoy A.

AQUA≈360, Exeter, England, 31 August - 02 September 2021

**VIII. Genetik Algoritma ile LEED Sınıfları ve Enerji Verimli Sistemlerin Maliyetlerinin Bir Vaka Analizinde Optimizasyonu**

Uğurlu B., Atikoğlu M. C., Aksoy A.

5. Ulusal Yapı Kongresi ve Sergisi, 28 May 2021, pp.569-582

- IX. **Case Study 2: Industry Academia Partnership Programme- Transforming Systems Through Partnership Programme**  
Aksoy A.  
UK Tech Week, 16 - 18 February 2021
- X. **Evaluation of Power Production from Different Scenarios Regarding Combustion of Sewage Sludge: A Waste and an Alternative Energy Source**  
Calbay E., AKSOY A., SANİN F. D.  
ICPRE 2018, Berlin, Germany, 21 - 24 September 2018
- XI. **Cost-based comparison of sludge drying alternatives for biological municipal wastewater treatment plants in Turkey**  
ÇELEBİ E. B., Calbay E., Kurt M., AKSOY A., SANİN F. D.  
SMICE 2018, 23 - 25 May 2018
- XII. **Evaluation of Methane Gas Generation Potential at a Landfill Site in Turkey**  
KARAYILAN S., Dursun Balcı D., AKSOY A.  
GWMS 2018 Global Waste Management Symposium, Indian Wells, United States Of America, 11 - 14 February 2018
- XIII. **Katı atık düzenli depolama sahalarından farklı atık kompozisyonlarına göre gaz salınımlarının tahmini**  
Karayılan S., Dursun Balcı D., AKSOY A.  
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
- XIV. **Determination of the Spatial Distribution in Hydraulic Conductivity Using Genetic Algorithm Optimization**  
AKSOY A., LEE J. H., KİTANİDİS P. K.  
AGU FALL MEETING 2016, San-Francisco, United States Of America, 12 - 16 December 2016
- XV. **Effects of anaerobic digestion on the combustion of sewage sludge**  
ÇELEBİ E. B., AKSOY A., SANİN F. D.  
8th International Conference on Environmental Science and Technology, 6 - 10 June 2016
- XVI. **Ranking of the remedial priority of contaminated sites using a fuzzy rule based system**  
AKSOY A., POLAT S., ÜNLÜ K.  
NGWA Groundwater Summit 2016, 24 - 27 April 2016
- XVII. **ULTRASON ÖNARITIMI VE ANAEROBİK ÇÜRÜTME İŞLEMLERİNİN BİYOGAZ ÜRETİMİ VE KENTSEL ÇAMURUN YAKIT ÖZELLİKLERİ ÜZERİNDEKİ ETKİLERİ**  
ÇELEBİ E. B., AKSOY A., SANİN F. D.  
11. Ulusal Çevre Mühendisliği Kongresi, Turkey, 14 - 17 October 2015
- XVIII. **Effects of Ultrasound Pretreatment on Biogas Generation from Anaerobic Digestion and Fuel Properties of Municipal Sludge**  
ÇELEBİ E. B., AKSOY A., SANİN F. D.  
WEF/IWA Residuals and Biosolids Conference, Washington, United States Of America, 7 - 10 June 2015
- XIX. **Seasonal CH<sub>4</sub> N<sub>2</sub>O and NH<sub>3</sub> fluxes from air water interface of eutrophic Central Anatolia lake Turkey**  
OGUN E., AKSOY A., SANİN S. L.  
IWA World Water Congress, Lisbon, Portugal, 21 - 26 September 2014
- XX. **Investigation of non point source pollution potential in the watershed of Porsuk Reservoir**  
KUCUK E., AKSOY A.  
IWA World Water Congress, Lisbon, Portugal, 21 - 26 September 2014
- XXI. **Sediment water dynamics and phosphorus release potential in a lake**  
PİLEVNELİ T., AKSOY A.  
IWA World Water Congress, Lisbon, Portugal, 21 - 26 September 2014
- XXII. **GIS based area determination for land application of municipal sludge of a metropolitan wastewater treatment plant**  
GÖRGÜNER M., AKSOY A., SANİN F. D.  
4th European Conference on Sludge Management, İzmir, Turkey, 26 - 27 May 2014

- XXIII. **Evaluation of pollution control alternatives to improve the water quality in Porsuk Dam Reservoir**  
YENİLMEZ F., AKSOY A.  
ICWRE 2014, Antalya, Turkey, 13 - 15 May 2014
- XXIV. **Environmental conditions that effect greenhouse gas emissions in a shallow eutrophic lake**  
OGUN e., AKSOY A., SANİN S. L.  
17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, İstanbul, Turkey, 28 September - 01 October 2013
- XXV. **Evaluation of Water Quality within the Watershed of Porsuk Dam Reservoir**  
YENİLMEZ F., AKSOY A.  
17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, İstanbul, Turkey, 28 September - 01 October 2013
- XXVI. **Assesment of long term pollution loads in Porsuk River**  
YENİLMEZ F., AKSOY A.  
17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, İstanbul, Turkey, 28 September - 01 October 2013
- XXVII. **Determination of geostatistically representative sampling locations in Porsuk Dam Reservoir Turkey**  
AKSOY A., YENİLMEZ F., DÜZGÜN H. Ş.  
AGU 46th Annual Fall Meeting, San-Francisco, United States Of America, 9 - 13 September 2013
- XXVIII. **Determination of the vulnerable areas for diffuse pollution transport within the watershed of the Porsuk Dam Reservoir using ArcGIS**  
YENİLMEZ F., AKSOY A.  
6th International Perspective on Water Resources & The Environment, İzmir, Turkey, 7 - 09 January 2013
- XXIX. **Çevre Mühendisliğinin geleceğine yönelik görüşler**  
AKSOY A., İMAMOĞLU İ.  
2. Çevre Mühendisliği Eğitimi ve Meslek Alanındaki Gelişmeler Çalıştayı, Antalya, Turkey, 25 - 26 March 2011, pp.113-125
- XXX. **Determination of Secchi disc depths in Lake Eymir using remotely sensed data**  
YÜZÜGÜLLÜ o., AKSOY A.  
GEOMED 2010, Kemer, Turkey, 2 - 05 June 2010, pp.433
- XXXI. **Spatial and temporal analysis of water quality parameters in Mogan Lake**  
YENİLMEZ F., KESKİN f., AKSOY A.  
GEOMED 2010, Kemer, Turkey, 2 - 05 June 2010, pp.208
- XXXII. **Water management in Turkey**  
AKSOY A.  
EU Water Acquis Training the Trainer Programme in the Candidate Countries, Sevilla, Spain, 24 - 28 November 2008
- XXXIII. **Water quality trend analysis in Lake Eymir Ankara**  
YENİLMEZ F., KESKİN f., AKSOY A.  
Regional Process of the 5th World Water Forum, Lefkoşa, Cyprus (Kktc), 9 - 11 September 2008
- XXXIV. **Impact of hydraulic conductivity heterogeneity on time to compliance**  
GÜNGÖR DEMİRCİ G., AKSOY A.  
IAHR International Groundwater Symposium, İstanbul, Turkey, 18 - 20 June 2008, pp.768-775
- XXXV. **Endüstriyel kaynaklı kirlenmiş sahalar için çevre yönetim sistemi**  
ÜNLÜ K., GÜVENER m., GİRGİN s., YETİŞ Ü., DİLEK F. B., AKSOY A., BÜYÜKER b., POLAT ş.  
EKK 08, İstanbul, Turkey, 11 - 13 June 2008, pp.9-26
- XXXVI. **Impact of crossover and decision variable coding forms on the performance of genetic algorithm optimization a case study on pump and treat remediation design**  
GÜNGÖR DEMİRCİ G., AKSOY A.  
EurOPT'2008, Neringa, Lithuania, 20 - 23 May 2008, pp.36-41
- XXXVII. **Impact of fertilizer usage on phosphorus loads to Lake Uluabat**  
bulut e., AKSOY A.



- Dipcon 2006, İstanbul, Turkey, 18 - 22 September 2006
- XXXVIII. **Effect of heterogeneity correlation scale on pump and treat remediation design**  
GÜNGÖR DEMİRCİ G., AKSOY A.  
World Water and Environmental Resources Congress 2006, Omaha, United States Of America, 21 - 25 May 2006
- XXXIX. **The impact of objective function formulation on the optimal calibration of QUAL2E**  
GÖKTAŞ R. K., AKSOY A.  
World Water and Environmental Resources Congress 2005, Anchorage, United States Of America, 15 - 09 May 2005, pp.15-19
- XL. **Satellite linked sensor networks for planetary scale monitoring**  
AKSOY D., AKSOY A.  
IEEE Vehicular Technology Conference 2004-Fall, Los-Angeles, United States Of America, 26 - 29 September 2004, pp.4037-4040
- XLI. **Application of genetic algorithms for calibration and verification of QUAL2E model**  
GÖKTAŞ R. K., AKSOY A.  
Application of genetic algorithms for calibration and verification of QUAL2E model, Salt Lake City, United States Of America, 27 June - 01 July 2004
- XLII. **Calibration and verification of QUAL2E for the reaeration coefficient using genetic algorithms**  
GÖKTAŞ R. K., AKSOY A.  
13th Turkish Symposium on Artificial Intelligence and Artificial Neural Networks, İzmir, Turkey, 10 - 11 June 2004
- XLIII. **Impact of physical and chemical heterogeneities on optimal remediation design and costs**  
AKSOY A., CULVER T. B.  
World Water and Environmental Resources Congress 2001, Orlando, United States Of America, 20 May - 24 January 2001
- XLIV. **Optimization of the aquifer remediation costs and design with pulsed pumping**  
AKSOY A., CULVER T. B.  
26th Annual Conference on Water Resources Planning and Management, Tempe, United States Of America, 6 - 10 June 1999
- XLV. **The effect of mass transfer limitations on the optimization of groundwater remediation strategies**  
AKSOY A., CULVER T. B.  
25th Annual Conference on Water Resources Planning and Management, Chicago, United States Of America, 6 - 10 June 1998, pp.661-666
- XLVI. **Development of a novel regenerable zinc ferrite sorbent for hot gas desulfurization**  
AKSOY A., Atımtay A.  
10th World Clean Air Congress, Espoo, Finland, 28 May - 02 June 1995, vol.1

## Supported Projects

- Aksoy A., Newton Programme Project, Turnover response system development, 2020 - 2023
- Aksoy A., Sırer D., German International Cooperation Center (GIZ) Supported Project, Baseline Assessment Study for CirculaMare in the Mediterranean- Bursa, Turkey, 2021 - 2022
- Sanin F. D., İmamoğlu İ., Aksoy A., Alp E., Sanin S. L., Project Supported by Other Official Institutions, Türkiye'de Arıtma Çamuru Yönetimi ve Eylem Planının Hazırlanması Projesi, 2016 - 2019
- AKSOY A., KARAYILAN S., Project Supported by Higher Education Institutions, KATI ATIK DÜZENLİ DEPOLAMA SAHALARINDAN FARKLI ATIK KOMPOZİSYONLARINA GÖRE GAZ SALINIMLARININ TAHMİNİ, 2017 - 2017
- AKSOY A., TUBITAK Project, Eysel/kentsel arıtma çamurlarının yönetimi, 2010 - 2013
- AKSOY A., TUBITAK Project, Eymir Gölü'ndeki Klorofil-A'nın Mekansal Dağılımının Belirlenmesi İçin Uzaktan Algılanmış Reflektans Ve Sahada Ölçülmüş Parametre Değerlerini Hibrid Girdi Olarak Kullanan Model Geliştirilmesi, 2009 - 2010
- AKSOY A., TUBITAK Project, Uluabat Gölü ötrifikasyon kontrolü için maksimum alıcı ortam fosfor yüklerinin belirlenmesi, 2004 - 2005

## **Contractual Researches**

AKSOY A., Ulusal Su Bilgi Sistemi Fizibilite Etüdü Projesi, 2013 - 2014

AKSOY A., AKS PLANLAMA LTD. ŞTİ. PROJESİ, 2010 - 2012

AKSOY A., Development of a management system for sites contaminated by point sources, 2007 - 2007

## **Scientific Refereeing**

waste management, Journal Indexed in SCI-E, November 2022

## **Metrics**

Publication: 86

Citation (WoS): 424

Citation (Scopus): 574

H-Index (WoS): 11

H-Index (Scopus): 12

## **Invited Talks**

UK Tech Week, Workshop, British Embassy, England, February 2021

## **Awards**

Şimşir S., Sömek S. K., Şanlı E. B., Kallem A., Yücel Bilen Ö., Çelebi E. B., Ünalan U. B., Ahmadian R., Demir Ş., Aksoy A., Best paper award, Aqua360 Organizasyon Komitesi, September 2021

## **Non Academic Experience**

Stanford University

University of California at Davis

University of Virginia

University of Virginia