

## Assoc. Prof. FİRDES YENİLMEZ

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Middle East Technical University, Fen Bilimleri, Çevre Mühendisliği, Turkey 2007 - 2014

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey 2004 - 2007

Undergraduate, Akdeniz University, Faculty Of Engineering, Çevre Mühendisliği, Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Environment and Sustainability, Karbon Ayak İzi ve Karbon Ticareti, Akdeniz Üniversitesi, 2023

Education Management and Planning, Avrupa Birliği Hibe Programlarına Proje Hazırlama Teknikleri, Antalya Valiliği, 2016

Education Management and Planning, 21. Yüzyılda Su Yönetimi: Bütünleşik Su Yönetimi Çerçevesinde Türkiye’de ve Dünyada Su, NİHA, 2013

Education Management and Planning, Environmental Modeling and Health Risk Analysis, Dokuz Eylül Üniversitesi, 2011

Education Management and Planning, Türkiye’de Su ve Çevre Müktesebatı alanında Eğiticilerin Eğitimi, Orman ve Su İşleri Bakanlığı, 2010

Education Management and Planning, SWAT (Soil and Water Assessment Tool) Basic and Advanced International Course, IGEM Akademia, 2010

Education Management and Planning, Agilent 7890/5975 GCMS Yazılım ve Donanımı, SEM, 2010

Quality Management, Analiz Metotlarının Geçerli Kılınması (Validasyon, Verifikasyon) ve Ölçüm Belirsizliği Eğitimi, TÜRKAK, 2010

Quality Management, TS ISO EN/IEC 17025 standardına göre İç Tetkikçi Eğitimi, TÜRKAK, 2010

Quality Management, Deney ve Kalibrasyon Laboratuvarlarının Yeterliliği İçin Genel Şartlar Standardı, TÜRKAK, 2010

Education Management and Planning, Persistent Organic Pollutants: Occurrence, Trends, Fate and Remediation, ODTÜ, 2009

Education Management and Planning, Cleaner Production, A tool for Green Competitiveness in the Turkish Industry,

ODTÜ, 2008

Education Management and Planning, Integrated Risk Assessment and Management for Continuous Improvement, ODTÜ, 2007

## Dissertations

Doctorate, Spatial Data Analysis For Monitoring And Prediction Of Selected Water Quality Parameters In Reservoirs: Porsuk Dam Reservoir Case, Middle East Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2014

Postgraduate, Modeling The Water Quality In Uluabat Lake, Middle East Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2007

## Research Areas

Environmental Engineering, Environmental Technology, Environmental Modeling, Water Pollution and Control, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Environmental Engineering, 2017 - Continues

Research Assistant PhD, Akdeniz University, Faculty of Engineering, Department of Environmental Engineering, 2014 - 2017

Research Assistant, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği , 2003 - 2014

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

- I. **Comparative assessment of hydrochemical characterization and groundwater quality for irrigation in an autochthonous karst aquifer with the support of GIS: case study of Altinova, Turkey**  
Wani A. M. L., Abunada Z., YENİLMEZ F., MUHAMMETOĞLU A., MUHAMMETOĞLU H.  
Environmental Earth Sciences, vol.83, no.8, 2024 (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. **WATER QUALITY EVALUATION BASED ON THE WATER QUALITY INDEX METHOD IN KARACAOREN-II DAM LAKE**  
Yenilmez F.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.8A, pp.8399-8403, 2022 (SCI-Expanded)
- IV. **ASSESSMENT OF WATER QUALITY EVALUATION PERFORMANCE OF GEOSTATISTICAL TECHNIQUES**  
Yenilmez F.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.08A, pp.8423-8430, 2022 (SCI-Expanded)
- V. **Assessment of groundwater contamination risk with scenario analysis of hazard quantification for a karst aquifer in Antalya, Turkey**  
Cil A., Muhammetoglu A., Ozyurt N. N., YENİLMEZ F., Keyikoglu R., Amil A., Muhammetoglu H.  
Environmental Earth Sciences, vol.79, no.9, 2020 (SCI-Expanded)
- VI. **An evaluation of potential sampling locations in a reservoir with emphasis on conserved spatial correlation structure**  
Yenilmez F., Duzgun S., AKSOY A.

- ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.1, 2015 (SCI-Expanded)
- VII. **Development of pollution indices for the middle section of the Lower Seyhan Basin (Turkey)**  
Golge M., Yenilmez F., AKSOY A.  
ECOLOGICAL INDICATORS, vol.29, pp.6-17, 2013 (SCI-Expanded)
- VIII. **Comparison of phosphorus reduction alternatives in control of nutrient concentrations in Lake Uluabat (Bursa, Turkey): Partial versus full sediment dredging**  
Yenilmez F., AKSOY A.  
LIMNOLOGICA, vol.43, no.1, pp.1-9, 2013 (SCI-Expanded)
- IX. **Forest Fire Risk Mapping by Kernel Density Estimation**  
Kuter N., Yenilmez F., Kuter S.  
CROATIAN JOURNAL OF FOREST ENGINEERING, vol.32, no.2, pp.599-610, 2011 (SCI-Expanded)
- X. **Evaluation of pollution levels at an abandoned coal mine site in Turkey with the aid of GIS**  
Yenilmez F., Kuter N., Emil M. K., AKSOY A.  
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.86, no.1, pp.12-19, 2011 (SCI-Expanded)
- XI. **Water quality trend analysis in Eymir Lake, Ankara**  
Yenilmez F., Keskin F., AKSOY A.  
PHYSICS AND CHEMISTRY OF THE EARTH, vol.36, no.5-6, pp.135-140, 2011 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Statistical Evaluation of Water Quality and Meteorological Conditions in Karacaören-II Dam Lake**  
YENİLMEZ F.  
Kocaeli Journal of Science and Engineering, vol.5, no.1, pp.97-104, 2022 (Peer-Reviewed Journal)
- II. **Meteorolojik Koşulların Mogan Gölü Su Kalitesine Etkileri**  
YENİLMEZ F., Keskin F., Aksoy A.  
BİBAD Biyoloji Bilimleri Araştırma Dergisi (Research Journal of Biology Sciences), vol.3, no.2, pp.33-38, 2010 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Case Study on the Evaluation of Changes of Microbiological Parameters in Coastal Waters**  
Yenilmez F.  
3. International Ankara Multidisciplinary Studies Congress, 5 - 07 December 2021, pp.423-427
- II. **Assessment of Water Quality Evaluation Performance of Geostatistical Techniques**  
Yenilmez F.  
20th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 26 - 27 October 2020, pp.109
- III. **Assesment of Water Quality Evaluation Performance of Geostatistical Techniques**  
YENİLMEZ F.  
20th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP2020), Greece, 26 - 27 October 2020
- IV. **Water Quality Evaluation Based on The Water Quality Index Method in Karacaören-II Dam Lake**  
Yenilmez F.  
20th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 26 - 27 October 2020, pp.110
- V. **Evaluation of Impacts of Intensive Agricultural Activities on Groundwater Quality in a Karstic Area: Antalya-Turkey**  
Çil A., Keyikoglu R., YENİLMEZ F., MUHAMMETOĞLU A., ÖZYURT N. N., MUHAMMETOĞLU H.  
9th International Symposium on Eastern Mediterranean Geology (ISEMG 2018), 7 - 11 May 2018

- VI. **The Response of Water Quality of Karacaören-II Dam Reservoir to Climate Change**  
YENİLMEZ F.  
The 3rd ASM International Congress of Agriculture and Environment, 16 - 18 November 2017
- VII. **Seasonal-Spatial Distribution of Secchi Depth in Karacaören-II Dam Reservoir**  
YENİLMEZ F.  
The 3rd ASM International Congress of Agriculture and Environment, 16 - 18 November 2017
- VIII. **Weaknesses and Threats in Potable Water Resources Management of Antalya (Turkey)**  
YENİLMEZ F.  
The 19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 3 - 06 October 2017
- IX. **Assessment of Groundwater Vulnerability in a Karstic Aquifer Using Index-Based Methods: Altınova-Turkey Case Study**  
Çil A., AMIL A., YENİLMEZ F., ÖZYURT N. N., MUHAMMETOĞLU A., MUHAMMETOĞLU H.  
LuWQ 2017 International Interdisciplinary Conference on Land Use and Water Quality, Netherlands, 29 May - 01 June 2017
- X. **Evaluation of Spatial Distribution Of Water Quality Parameters Using Ordinary Kriging: Karacaören II Dam Reservoir Case**  
YENİLMEZ F.  
International Scientific Conference on Applied Sciences "Spatial Data Processing, Modelling, Analysing and Management for Knowledge Based Systems" (ISCAS2016)", Turkey, 27 - 30 September 2016
- XI. **3D Spatial Distribution of Water Quality Parameters in Karacaören-II Dam Reservoir**  
YENİLMEZ F.  
1st International Black Sea Congress on Environmental Sciences (IBCESS), Antalya, Turkey, 31 August - 03 September 2016, pp.135
- XII. **Agricultural nitrate pollution of groundwater in Antalya-Turkey**  
Çil A., Keyikoglu R., YENİLMEZ F., MUHAMMETOĞLU A., MUHAMMETOĞLU H.  
13th International Conference on Protection and Restoration of the Environment, Mykonos, Greece, 3 - 08 July 2016, pp.56-63
- XIII. **Agricultural nitrate pollution of groundwater in Antalya-Turkey**  
Çil A., Keyikoglu R., YENİLMEZ F., MUHAMMETOĞLU A., MUHAMMETOĞLU H.  
13th International Conference on Protection and Restoration of the Environment, Mykonos, Greece, 3 - 08 July 2016, pp.56-63
- XIV. **Baraj Göllerinde İzleme Ağlarının Oluşturulmasında Mekansal Veri Analizi Araçlarının Kullanılması: Porsuk Baraj Gölü Örneği**  
YENİLMEZ F., DÜZGÜN H., AKSOY A.  
3. Uluslararası Sürdürülebilir Su Yönetimi Kongresi, İzmir, Turkey, 8 - 10 October 2015, pp.75
- XV. **Analysis of pressures and impacts for the water quality of Karacaören-II dam reservoir**  
YENİLMEZ F.  
18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Crete, Greece, 26 - 30 September 2015, pp.200
- XVI. **Analysis of trends in the water quality of Karacaören-II dam reservoir**  
YENİLMEZ F.  
18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Crete, Greece, 26 - 30 September 2015, pp.202
- XVII. **Evaluation of Pollution Control Alternatives to Improve the Water Quality in Porsuk Dam Reservoir**  
YENİLMEZ F., AKSOY A.  
3rd International Conference on Water Resources and Environmental Management (ICWRE 2014), Antalya, Turkey, 13 - 15 May 2014, pp.41
- XVIII. **Determination of geostatistically representative sampling locations in Porsuk Dam Reservoir (Turkey)**  
Aksoy A., YENİLMEZ F., Düzgün H. Ş.

AGU Fall Meeting, San Francisco, United States Of America, 9 - 13 December 2013

- XIX. 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
- XX. 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
- XXI. Determination of the vulnerable areas for diffuse pollution transport within the watershed of the Porsuk Dam Reservoir using ArcGIS**  
YENİLMEZ F., Aksoy A.  
IPWE 6th International Perspective on Water Resources & The Environment, İzmir, Turkey, 7 - 09 January 2013
- XXII. Analysis of traffic incidents in METU campus**  
Keskin F., YENİLMEZ F., Colak M., Yavuzer I., Duzgun H. S.  
2nd International Geography Symposium-Mediterranean Environment, Antalya, Turkey, 2 - 05 June 2010, vol.19, pp.61-70
- XXIII. Mogan Gölü su kalite parametrelerinin mekansal ve zamansal değerlendirilmesi**  
YENİLMEZ F., Keskin F., AKSOY A.  
JEOUZAL 2010, Ankara, Turkey, 4 - 05 November 2010, pp.29
- XXIV. Çevre Koşullarının Mogan Gölü Su Kalitesine Etkileri**  
YENİLMEZ F., Keskin F., AKSOY A.  
IX. Ulusal Ekoloji ve Çevre Kongresi, Nevşehir, Turkey, 7 - 10 October 2010, pp.21
- XXV. Analyzing of Traffic Incidents In METU**  
Keskin F., YENİLMEZ F., Çolak M., Yavuzer İ., Düzgün H. Ş.  
GEOMED 2010 (The 2nd International Geography Symposium), Antalya, Turkey, 2 - 05 June 2010
- XXVI. Spatial and Temporal Analysis of Water Quality Parameters In Mogan Lake**  
YENİLMEZ F., Keskin F., Aksoy A.  
GEOMED 2010 (The 2nd International Geography Symposium), Antalya, Turkey, 2 - 05 June 2010
- XXVII. Çevre Koşullarının Eymir Gölü Su Kalitesine Etkileri**  
YENİLMEZ F., Keskin F., AKSOY A.  
8. Ulusal Çevre Mühendisliği Kongresi, Antalya, Turkey, 12 - 14 November 2009, pp.459-468
- XXVIII. Çevre Koşullarının Eymir Gölü Su Kalitesine Etkileri (CMO2009)**  
YENİLMEZ F., KESKİN F., AKSOY A.  
8. Ulusal Çevre Mühendisliği Kongresi (CMO2009), Turkey, 12 - 14 November 2009
- XXIX. Evaluation of Forest Fires with GIS: Case Study at METU Campus**  
Kuter N., YENİLMEZ F., Kuter S.  
Ecology and Forests for Public Health, Oslo, Norway, 18 - 20 September 2009, pp.70
- XXX. Impact of Meteorological Conditions on the Water Quality in Eymir Lake, Turkey**  
YENİLMEZ F., Keskin F., Aksoy A.  
5th World Water Forum, İstanbul, Turkey, 16 - 22 March 2009
- XXXI. Water Quality Trend Analysis in Lake Eymir, Ankara**  
YENİLMEZ F., Keskin F., Aksoy A.  
Regional Process of The 5th World Water Forum, Regional Meeting on Water in the Mediterranean Basin, Lefkoşa, Cyprus (Kkct), 9 - 11 October 2008, pp.65
- XXXII. Uluabat Gölü Su Kalitesinin WASP 7.2 Modeli Kullanılarak Değerlendirilmesi**  
YENİLMEZ F., AKSOY A.  
7.Ulusal Çevre Mühendisliği Kongresi, İzmir, Turkey, 24 - 27 October 2007, pp.56-62
- XXXIII. Fate of agricultural nitrogen in the soil and groundwater of Kumluca-Turkey**  
MUHAMMETOĞLU A., YENİLMEZ F., MUHAMMETOĞLU H.  
12th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region,

## Supported Projects

- YENİLMEZ F., Project Supported by Other Official Institutions, Salda Deresinin Su Kalitesinin Ekolojik Değerlendirilmesi, 2018 - Continues
- Demir T., Yenilmez F., Gökbülak F., Yılmaz H., TUBITAK Project, Kızılçam Ormanlarında Yangın Sonrası Hidrolojik İyileşme Süreçlerinin Belirlenmesi(Antalya Manavgat Orman Yangını Örneği), 2023 - 2026
- Yenilmez F., Aykut A., Project Supported by Other Official Institutions, Antalya Çandır Havzasında Farklı Arazi Kullanımlarının Bazı Fiziksel ve Kimyasal Su Parametrelerine Etkisi, 2019 - 2021
- VAROL M., MERDUN H., ERDEM A., YENİLMEZ F., Akgül G., Project Supported by Higher Education Institutions, Chlorella vulgaris mikroalg kültürünün oksijenleme şartlarını temsil eden yüksek CO<sub>2</sub> içerikli gaz karışımı ile fotobiyoreaktörde yetiştirilmesi ve CO<sub>2</sub> tutma veriminin incelenmesi, 2018 - 2020
- MUHAMMETOĞLU A., MUHAMMETOĞLU H., YENİLMEZ F., ÖZYURT N. N., Project Supported by Higher Education Institutions, Yeraltısuyu Risk Değerlendirmesi ve Pestisit Risk İndikatörleri Kullanılarak Tarımsal Karstik Bölgelerdeki Yeraltısuyu Kalitesinin Entegre Yönetimi, 2015 - 2018
- YENİLMEZ F., Project Supported by Other Official Institutions, Gördes Baraj Gölü Havzası Özel Hüküm Belirleme Çalışması, 2013 - 2015
- YENİLMEZ F., Project Supported by Other Official Institutions, İçme ve Kullanma Suyu Kaynağı Olarak Porsuk Barajının Korunması ve Özel Hüküm Belirlenmesi Projesi, 2009 - 2012
- YENİLMEZ F., TUBITAK Project, Uluabat Gölü Ötrifikasyon Kontrolü İçin Maksimum Alıcı Ortam Fosfor Yüklerinin Belirlenmesi, 2004 - 2006

## Scientific Refereeing

- Water Practice and Technology , Journal Indexed in ESCI, December 2021
- ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, December 2021
- KOCAELİ JOURNAL OF SCIENCE AND ENGINEERING, National Scientific Refreed Journal, March 2021
- WATER SCIENCE AND TECHNOLOGY, SCI Journal, January 2020
- Net Journal of Agricultural Science, National Scientific Refreed Journal, June 2018
- Maden Tetkik ve Arama Dergisi (Bulletin of the Mineral Research and Exploration), National Scientific Refreed Journal, February 2018
- Water Science and Technology, SCI Journal, December 2016
- Exposure and Health, SCI Journal, September 2014
- Water Science and Technology, SCI Journal, February 2014
- Journal of Environmental Radioactivity, SCI Journal, January 2014
- Water Quality, Exposure and Health, SCI Journal, December 2013

## Scientific Consultations

- Orman ve Su İşleri Bakanlığı, Project Consultancy, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği , Turkey, 2014 - 2014
- Orman ve Su İşleri Bakanlığı, Project Consultancy, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği , Turkey, 2009 - 2012

## Metrics

Publication: 46

Citation (WoS): 172

Citation (Scopus): 178

H-Index (WoS): 7

H-Index (Scopus): 7

## **Congress and Symposium Activities**

Su Kalitesi Deęerlendirmesi ve Trend Analizi", T.C. Tarım ve Orman Bakanlıęı, Su Yönetimi Genel Müdürlüęü "Su Kalitesi Yönetimi" konulu hizmet ii eęitim, Attendee, Antalya, Turkey, 2019

"Antalya'nın İme Suyu Kaynakları Üzerine SWOT Analizi" konulu seminer, Antalya Kent Konseyi, Attendee, Antalya, Turkey, 2017

## **Scholarships**

En İyi Bilimsel Makale Ödülü-3rd International Conference on Water Resources and Environmental Management, TUBİTAK, 2014 - Continues

TÜBİTAK BİDEB 2214-Yurtdışı Doktora Araştırma Bursu, TUBİTAK, 2012 - Continues

TÜBİTAK BİDEB 2211-Yurtii Doktora Bursu, TUBİTAK, 2007 - Continues

## **Awards**

YENİLMEZ F., ODTÜ Fen Bilimleri Enstitüsü Doktora Akademik Performans Ödülü, 2009, ODTÜ, October 2009

YENİLMEZ F., Akdeniz Üniversitesi Çevre Mühendislięi Bölüm Birincilięi, Akdeniz Üniversitesi, June 2002

## **Non Academic Experience**

Virginia Polytechnic Institute and State University