

## Prof. BİROL KAYRANLI

### Personal Information

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### International Researcher IDs

ScholarID: rJmQMTIAAAAJ

ORCID: 0000-0002-3344-0219

Publons / Web Of Science ResearcherID: W-4873-2019

ScopusID: 6503991958

Yoksis Researcher ID: 220934

### Biography

Çevre Mühendisliği, Çevre Teknolojisi, Atıksuların Toplanması ve Arıtımı, Su Kirliliği ve Kontrolü, Su Temini ve Arıtımı

### Education Information

Postgraduate, Hasan Kalyoncu University, Institute Of Social Sciences, İşletme (YI) (Tezli), Turkey 2012 - 2013

Post Doctorate, University of Edinburgh, School of Engineering, Institute for Infrastructure and Environment, United Kingdom 2008 - 2009

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), Turkey 2001 - 2008

Postgraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1997 - 2001

Undergraduate, Selcuk University, Faculty Of Engineering-Architecture, Turkey 1993 - 1997

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, Yerel Yönetimlerin Altyapı Yatırımlarında Dış Finansman Kullanımı ve Atıksu Arıtma Tesisi Yatırımında Dış Kredi İle Yapılabilirliğinin İrdelenmesi, Hasan Kalyoncu University, Sosyal Bilimler Enstitüsü, İşletme (YI) (Tezli), 2013

Doctorate, Evsel atık suların düşük sıcaklıklarda anaerobik ardışık kesikli reaktörle arıtımı, Hacettepe University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), 2008

Postgraduate, İçme Suyu Arıtma Tesisi Çamurlarının Tekstil Atıksularının Renk Gideriminin de Koagülant Olarak Kullanımının Araştırılması, Cukurova University, Mühendislik-Mimarlık Fakültesi, Çevre Mühendisliği Bölümü, 2001

### Research Areas

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

## Academic Titles / Tasks

Professor, Gazi University, Fen Bilimleri Enstitüsü, Environmental Science , 2022 - Continues

Professor, Purdue University, Engineering, Agricultural and Biological Engineering, 2024 - 2024

Associate Professor, Gazi University, Fen Bilimleri Enstitüsü, Çevre Bilimleri Ana Bilim Dalı, 2020 - 2022

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, Çevre Bilimleri Ana Bilim Dalı, 2000 - 2002

## Courses

İKLİM DEĞİŞİKLİKLERİ, Postgraduate, 2020 - 2021

TREATMANT SLUDGE CONTROL and DISPOSAL, Postgraduate, 2021 - 2022

OPERATION of WASTEWATER TREATMANT PLANT, Postgraduate, 2021 - 2022

ÇEVRESEL GÜRÜLTÜ KİRLİLİĞİ, Postgraduate, 2020 - 2021

GÜRÜLTÜ KİRLİLİĞİ VE KONTROLÜ, Postgraduate, 2017 - 2018, 2016 - 2017

TAŞIT KAYNAKLI HAVA KİRLİLİĞİ VE KÜRESEL İKLİM DEĞİŞİMİ, Postgraduate, 2017 - 2018, 2016 - 2017

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

- I. **Peanut shell biochar for Rhodamine B removal: Efficiency, desorption, and reusability**  
KAYRANLI B., BİLEN M., SEÇKİN İ. Y., YILMAZ T., Dinc A., AKKURT F., Simsek H.  
Chemosphere, vol.364, 2024 (SCI-Expanded)
- II. **Acidification and alkali precipitation for phosphorus recovery from municipal digested sludge**  
Seckin İ. Y., Altiner M., Kayranlı B., Yılmaz T.  
Water and Environment Journal, vol.1, no.38, pp.259-268, 2024 (SCI-Expanded)
- III. **Low-cost organic adsorbent usage for removing Ni<sup>2+</sup> and Pb<sup>2+</sup> from aqueous solution and adsorption mechanisms**  
Kayranlı B., Gök O., Yılmaz T., Gök G., Celebi H., Seçkin İ. Y., Mesutoglu O.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.5, pp.3547-3564, 2022 (SCI-Expanded)
- IV. **Cadmium removal mechanisms from aqueous solution by using recycled lignocelluloses**  
Kayranlı B.  
ALEXANDRIA ENGINEERING JOURNAL, vol.61, no.1, pp.443-457, 2022 (SCI-Expanded)
- V. **Mechanism of interaction and removal of zinc with lignocellulosic adsorbents, closing the cycle with a soil conditioner**  
Kayranlı B.  
JOURNAL OF KING SAUD UNIVERSITY SCIENCE, vol.33, no.8, 2021 (SCI-Expanded)
- VI. **Zinc Removal Mechanisms with Recycled Lignocellulose: from Fruit Residual to Biosorbent then Soil Conditioner**  
Kayranlı B., Gök O., Yılmaz T., Gök G., Çelebi H., Seçkin İ. Y., Kalat D.  
WATER AIR AND SOIL POLLUTION, vol.232, no.8, 2021 (SCI-Expanded)
- VII. **Nutrient release from integrated constructed wetlands sediment receiving farmyard run-off and domestic wastewater**  
Dong Y., Kayranlı B., Scholz M., Harrington R.  
WATER AND ENVIRONMENT JOURNAL, vol.27, no.4, pp.439-452, 2013 (SCI-Expanded)
- VIII. **ASSESSMENT OF METHANOGENIC ACTIVITY AND KINETICS OF ANAEROBIC GRANULAR SLUDGE**  
Kayranlı B., Uğurlu A.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, no.8B, pp.2394-2398, 2012 (SCI-Expanded)
- IX. **Adsorption of textile dyes onto iron based waterworks sludge from aqueous solution; isotherm, kinetic and thermodynamic study**

- Kayranli B.  
CHEMICAL ENGINEERING JOURNAL, vol.173, no.3, pp.782-791, 2011 (SCI-Expanded)
- X. **Effects of temperature and biomass concentration on the performance of anaerobic sequencing batch reactor treating low strength wastewater**  
Kayranli B., UĞURLU A.  
DESALINATION, vol.278, pp.77-83, 2011 (SCI-Expanded)
- XI. **Performance Evaluation of Integrated Constructed Wetlands Treating Domestic Wastewater**  
Kayranli B., Scholz M., Mustafa A., Hofmann O., Harrington R.  
WATER AIR AND SOIL POLLUTION, vol.210, pp.435-451, 2010 (SCI-Expanded)
- XII. **Carbon Storage and Fluxes within Freshwater Wetlands: a Critical Review**  
Kayranli B., Scholz M., Mustafa A., Hedmark A.  
WETLANDS, vol.30, no.1, pp.111-124, 2010 (SCI-Expanded)
- XIII. **The use of waterworks sludge for the treatment of dye wastes**  
Basibuyuk M., Yilmaz T., Kayranli B., Yuceer A., Forster C.  
ENVIRONMENTAL TECHNOLOGY, vol.23, no.3, pp.345-351, 2002 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Evaluation of Hazardous Wastes in Terms of Occupational Health and Safety, and Environmental Ethics**  
Punduk A., Kayranlı B.  
International Journal of Environmental Trends, vol.6, no.2, pp.113-128, 2022 (Peer-Reviewed Journal)
- II. **Yapay Sulak Alan Atık Su Arıtma Sistemlerin Eysel Atık Suların Arıtılmasında Kullanılmasında Karşılaşılan Sorunlar ve Öneriler**  
YİĞİT E. S., KAYRANLI B.  
Aksaray University Journal of Science and Engineering, vol.6, no.1, pp.17-26, 2022 (Peer-Reviewed Journal)
- III. **Textile Dye Removal From Aqueous Solution By Using Peanut And Pistachio Shells,**  
Kayranlı B., Gök O., Gök G., Çimen Mesutoğlu Ö.  
International Journal of Environmental Pollution and Environmental Modelling, vol.2, no.5, pp.270-276, 2019 (Peer-Reviewed Journal)
- IV. **Belediyelerin çevre hizmetlerini yürütürken mevzuattan kaynaklanan sorunları ve çözüm önerileri**  
KAYRANLI B., Meriç G.  
Çevre, Bilim ve Teknoloji, vol.1, no.4, pp.18-25, 2003 (Peer-Reviewed Journal)
- V. **İçmesuyu Arıtma Çamurlarının Bazı Boyar Maddelerin Giderilmesinde Adsorbant Olarak Kullanılması**  
KAYRANLI B., BAŞIBÜYÜK M.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.15, no.4, pp.901-908, 2002 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Textile dye removal from aqueous solution by using peanut and pistachio shells**  
KAYRANLI B., GÖK O., GÖK G., ÇİMEN MESUTOĞLU Ö.  
International Symposium for Environmental Science and Engineering Research (ISESER2019), Konya, Turkey, 25 May 2019

### Scientific Refereeing

CHEMISTRYOPEN, Journal Indexed in SCI-E, April 2023

ENVIRONMENTAL PROGRESS AND SUSTAINABLE ENERGY, Journal Indexed in SCI-E, April 2023  
ENVIRONMENTAL PROGRESS AND SUSTAINABLE ENERGY, Journal Indexed in SCI-E, December 2022  
BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, August 2022  
ENVIRONMENTAL PROGRESS, Journal Indexed in SCI-E, April 2022  
BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, April 2022  
BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, January 2022

## **Metrics**

Publication: 20  
Citation (WoS): 658  
Citation (Scopus): 800  
H-Index (WoS): 8  
H-Index (Scopus): 9

## **Non Academic Experience**

İller Bankası A.Ş.