

# Prof. BİNNAZ ZEYNEP ZAIMOĞLU

## Personal Information

Office Phone: [+90 322 338 6084](tel:+903223386084)

Office Phone: [+90 322 338 7221](tel:+903223387221)

Fax Phone: [+90 322 338 7221](tel:+903223387221)

Email: [zeynepz@cu.edu.tr](mailto:zeynepz@cu.edu.tr)

Web: <https://avesis.cu.edu.tr//zeynepz>

Address: müh mim fak çevre mühendiliği böl.balcalı adana

## International Researcher IDs

ORCID: 0000-0002-9573-4781

Publons / Web Of Science ResearcherID: G-3766-2018

Yoksis Researcher ID: 42849

## Education Information

Postgraduate, Cukurova University, Fen Bilimleri Ens, Tarımsal Yapılar Sulama, Turkey 1988 - 1991

## Research Areas

Environmental Engineering, Environmental Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık, Çevre Mühendisliği, 2013 - Continues

Associate Professor, Cukurova University, Mühendislik Mimarlık, Çevre Mühendisliği, 2006 - 2013

Assistant Professor, Cukurova University, Mühendislik Mimarlık, Çevre Mhendisliği, 2000 - 2006

## Advising Theses

Zaimoğlu B. Z., ATIK ÇAMURUN İYİLEŞTİRİLEBİLMESİ İÇİN BİTKİSEL ARITIM'IN (FİTOREMEDİYASYON) KULLANIM OLANAKLARININ ARAŞTIRILMASI, Postgraduate, C.KÖSEOĞLU(Student), Continues

Zaimoğlu B. Z., Cr (VI) İyonunun Süs Bitkileri Kullanılarak Toprakta Gideriminin Araştırılması, Postgraduate, N.BAŞÇI(Student), Continues

Zaimoğlu B. Z., DRENAJ KANALLARINDA MEVSİMSEL KİRLENMENİN BELİRLENMESİ, AŞAĞI SEYHAN ÖRNEĞİ, Postgraduate, Ş.İSKENDEROĞLU(Student), Continues

Zaimoğlu B. Z., MEDİCAGO SATİVA L. VE VİCİA L.BİTKİLERİ KULLANILARAK TOPRAKTAN BOR GİDERİMİNİN ARAŞTIRILMASI, Postgraduate, B.KARAÖMERLİOĞLU(Student), Continues

Zaimoğlu B. Z., NİSAŞTA ENDÜSTRİSİ ATIK SULARININ BİTKİ YETİŞTİRİLMESİNDE KULLANIM OLANAKLARININ ARAŞTIRILMASI, Postgraduate, A.Ganimet(Student), Continues

Zaimoğlu B. Z., Türkiye ve Avrupa Birliği Devletlerinde Enerji ve İklim Politikalarının Analizi, Postgraduate, O.ALTÜRK(Student), 2017

ZAIMOĞLU B. Z., Çilek (fargaria Anannasa) Bitkisinin Çinko ve Gümüş Biriktirme Kapasitesinin Araştırılması, Postgraduate, A.Cafer(Student), 2015

Zaimođlu B. Z., LACTUCA SATİVA BİTKİSİ KULLANILARAK BOR KONSANTRASYONU YÜKSEK SULARIN ARITILABİLİRLİĞİNİN ARAŞTIRILMASI, Postgraduate, S.MİÇİLLİOĞLU(Student), 2010

Zaimođlu B. Z., MISIR'IN Cr (VI) BİRİKTİRME KAPASİTESİNİN ARAŞTIRILMASI, Postgraduate, P.ATİLLA(Student), 2009

Zaimođlu B. Z., NİŞASTA SANAYİ ATIKSULARININ BİTKİSEL İYİLEŞTİRİLMESİ (FİTOREMEDİASYON) KAPASİTESİNİNE MİKORİZAL SİMBİYOZUN ETKİLERİNİN ARAŞTIRILMASI, Postgraduate, S.YILDIZ(Student), 2008

Zaimođlu B. Z., ADANA SOFULU DÜZENSİZ ÇÖP DEPOLAMA SAHASINDAN ALINAN ÇÖP SIZINTI SULARININ LABORATUVAR ÖLÇEKLİ ORTAMDA BİTKİSEL YOLLA AZOT-FOSFOR VE AĞIR METAL GİDERİMİNİN ARAŞTIRILMASI, Postgraduate, F.EKMEKÇİ(Student), 2007

Zaimođlu B. Z., ÇUKUROVA BÖLGESİNDE YAPAY SULAK ALAN TEKNOLOJİSİNİN KRSAL ALANDA KULLANIMININ ARAŞTIRILMASI, Postgraduate, B.DEMİRÖRS(Student), 2006

Zaimođlu B. Z., ADANA SOFULU DÜZENSİZ ÇÖP DEPOLAMA ALANINDA OLUŞAN ÇÖP SIZINTI SULARININ BİTKİ YETİŞTİRİLMESİNDE KULLANILMASI, Postgraduate, Z.DURAK(Student), 2005

Zaimođlu B. Z., ZEYTİNYAĞI ATIKSUYU VE PİRİNANIN BİTKİ YETİŞTİRİLMESİNDE KULLANIM OLANAKLARININ ANLAŞILMASI, Postgraduate, A.ÖCAL(Student), 2005

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

- I. **Effects of suspended titanium dioxide (TiO<sub>2</sub>) nanoparticles on cake layer formation in submerged anaerobic membrane bioreactor (AnMBR) for landfill leachate treatment (LFL)**  
Göçer S., ZAIMOĐLU B. Z., Cırık K.  
Process Biochemistry, vol.146, pp.525-538, 2024 (SCI-Expanded)
- II. **Magnetite/activated sludge hybrid process for the treatment of dye containing simulated textile wastewater**  
Balci B., Ergan B., Erkurt E., Basibuyuk M., Zaimoglu Z., Budak F., Turan E. S.  
DESALINATION AND WATER TREATMENT, no.286, pp.101-114, 2023 (SCI-Expanded)
- III. **Degradation of a basic textile dye by inactivated calcium peroxide**  
Balci B., Erkurt F. E., Budak F., Zaimoglu Z., Basibuyuk M., Yesiltas H. K.  
DESALINATION AND WATER TREATMENT, vol.258, pp.111-122, 2022 (SCI-Expanded)
- IV. **THE FACTORS SHAPING PUBLIC OPINION ABOUT PAYING FOR AND USING RENEWABLE ENERGY SOURCES: A CASE STUDY FROM TURKEY**  
Uyanik S., Sucu M. Y., Zaimoglu Z.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.2, pp.1201-1208, 2021 (SCI-Expanded)
- V. **Removal of a reactive dye from simulated textile wastewater by environmentally friendly oxidant calcium peroxide**  
Balci B., Aksoy N., Erkurt F. E., Budak F., BAŞIBÜYÜK M., ZAIMOĐLU B. Z., TURAN E. S., Yılmaz S.  
International Journal of Chemical Reactor Engineering, vol.19, no.11, pp.1231-1243, 2021 (SCI-Expanded)
- VI. **The Characteristics of Phytoremediation of Soil and Leachate Polluted by Landfills**  
ERDOĐAN R., Zaimoglu Z.  
ADVANCES IN BIOREMEDIATION OF WASTEWATER AND POLLUTED SOIL, pp.227-246, 2015 (SCI-Expanded)
- VII. **The assessment of the behavior of nanoparticles in environmental systems for sustainable development**  
Zaimoglu Z., GÜLEN H., BOSTAN BUDAK D., Ergin S., Kesici M.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- VIII. **The uptake and translocation of hexavalent chromium and effects on growth and enzyme activity of Zea mays L.**  
Zaimoglu Z., atilla P.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.10, pp.982-986, 2012 (SCI-Expanded)
- IX. **Utilization of leachate for irrigation in landfill cover soil remediation projects**  
ERDOĐAN R., Zaimoglu Z., MANSUROĐLU S.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.9, pp.979-982, 2011 (SCI-Expanded)

- X. **Use of sewage sludge in growth media for ornamental plants and its effects on growth and heavy metal accumulation**  
Erdoğan R., Zaimoglu Z., Budak F., Koseoğlu C.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.9, pp.632-635, 2011 (SCI-Expanded)
- XI. **Antioxidative enzyme activities in Brassica juncea L. and Brassica oleracea L. plants under chromium stress**  
Zaimoglu Z., Koksall N., Basci N., Kesici M., Gulen H., Budak F.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.9, no.1, pp.676-679, 2011 (SCI-Expanded)
- XII. **Heavy Metal Uptake by Aptenia cordifolia as Utility for Sewage Sludge Compost Recuperation using Leachate**  
Zaimoglu Z., Erdogan R., Kecec S., SUCU M., BUDAK F.  
ASIAN JOURNAL OF CHEMISTRY, vol.21, no.2, pp.1081-1089, 2009 (SCI-Expanded)
- XIII. **Applicability of leachates originating from solid-waste landfills for irrigation in landfill restoration projects**  
Erdogan R., Zaimoglu Z., Sucu M., Budak F., Kecec S.  
JOURNAL OF ENVIRONMENTAL BIOLOGY, vol.29, pp.779-784, 2008 (SCI-Expanded)
- XIV. **Phytoremediation of landfill leachate using Pennisetum clandestinum**  
Sogut Z., Zaimoglu B. Z., ERDOĞAN R., SUCU M.  
JOURNAL OF ENVIRONMENTAL BIOLOGY, vol.26, no.1, pp.13-20, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **LANDFILL LEACHATE TREATMENT VIA NANO ZERO VALENT IRON PARTICLES (nZVI) OF ADSORPTION PROCESS**  
GÖÇER S., ZAIMOĞLU Z., CIRIK K.  
KSÜ Mühendislik Bilimleri Dergisi, vol.27, no.3, pp.896-907, 2024 (Peer-Reviewed Journal)
- II. **Removal of pollutants from landfill leachate by adsorption with nano zero-valent iron particles: adsorption isotherms and kinetic studies**  
Göçer S., ZAIMOĞLU B. Z., Cırık K.  
Water Practice and Technology, vol.19, no.2, pp.401-418, 2024 (ESCI)
- III. **Calculation of rainwater harvest in greenhouses for semi-arid and continental climate zones**  
BAYTORUN A. N., ZAIMOĞLU B. Z., ERKURT F. E., BALCI B., YEŞİLTAŞ H. K.  
Environmental Research & Technology, vol.5, no.2, pp.188-196, 2022 (Scopus)
- IV. **SYNTHESIS OF TITANIUM DIOXIDE (TiO<sub>2</sub>) .**  
gocer S., ZAIMOĞLU B. Z., CIRIK K.  
Kahramanmaraş Sütçü İmam Üniversitesi Fen Bilimler Dergisi, vol.23, no.4, pp.219-226, 2020 (Peer-Reviewed Journal)
- V. **Sera İşletmelerinde Yağmur Sularının Hasadı ve Depolama Kapasitesinin Belirlenmesi**  
BAYTORUN A. N., ZAIMOĞLU B. Z., ÜNLÜ M.  
Turkish Journal of Agriculture - Food Science and Technology, vol.7, no.1, pp.22, 2019 (Peer-Reviewed Journal)
- VI. **Akdeniz Kentlerinde Nehir Koridorlarının Sürdürülebilir Yönetimi Antalya Örneği**  
ERDOĞAN R., ZAIMOĞLU B. Z.  
Akademia Disiplinlerarası Bilimsel Araştırmalar Dergisi, vol.2, no.4, pp.71-80, 2018 (Peer-Reviewed Journal)
- VII. **Seralarda Latent Isının Isı Gereksinim Katsayısına Etkisinin Belirlenmesi**  
BAYTORUN A. N., ZAIMOĞLU B. Z., GÜĞERÇİN Ö.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.33, no.4, pp.155-164, 2018 (Peer-Reviewed Journal)
- VIII. **Seralarda Isı Gereksiniminin Isıtma-Derece-Saat (HDH) Değerlerinden Gidilerek Belirlenmesi**  
BAYTORUN A. N., ZAIMOĞLU B. Z., GÜĞERÇİN Ö.  
Çukurova Tarım ve Gıda Bilimleri Dergisi, vol.33, no.2, pp.137-146, 2018 (Peer-Reviewed Journal)

- IX. **Comparison of Greenhouse Fuel Consumption Calculated Using Different Methods with Actual Fuel Consumption**  
BAYTORUN A. N., ZAIÑOĐLU B. Z., AKYÜZ A., ÜSTÜN S., ÇAYLI A.  
Turkish Journal of Agriculture - Food Science and Technology, vol.6, no.7, pp.850-857, 2018 (Peer-Reviewed Journal)
- X. **Farklı İklim Bölgelerindeki Seralar için Isı Gereksinimlerinin Modellenmesi**  
ZAIÑOĐLU B. Z.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.4, pp.79-86, 2017 (Peer-Reviewed Journal)
- XI. **Determining required heat energy and CO2 emissions resulting from fuel consumption in different greenhouse installations in Mediterranean climate conditions**  
BAYTORUN N., ZAIÑOĐLU B. Z.  
International Journal of Advance Research,, vol.4, no.4, pp.248-258, 2016 (Peer-Reviewed Journal)
- XII. **Reducing CO2 Emissions in Greenhouses Regarding Heat Efficiency Increase**  
BAYTORUN A. N., ZAIÑOĐLU B. Z.  
International Journal of Advance Research, vol.4, no.11, pp.1930-1936, 2016 (Scopus)
- XIII. **Investigating the provisions of Bicycle use and Inclinations of Riders Konyaaltı Antalya Case Study**  
ERDOĐAN R., Olgun R., TÜLEK B., ZAIÑOĐLU B. Z.  
International Journal of Agriculture and environmental Research, vol.2, no.5, pp.1368-1380, 2016 (Peer-Reviewed Journal)
- XIV. **Social Implications of Climate Change.**  
GÜLTEKİN U., BOSTAN BUDAK D., ZAIÑOĐLU B. Z.  
International Journal of Advanced Research, vol.4, no.8, pp.403-408, 2016 (Peer-Reviewed Journal)
- XV. **SOCIAL IMPLICATIONS OF CLIMATE CHANGE**  
GÜLTEKİN U., BOSTAN BUDAK D., ZAIÑOĐLU B. Z.  
International Journal of Advanced Research, vol.4, no.8, pp.503-508, 2016 (Peer-Reviewed Journal)
- XVI. **Renewable Energy Resources and Their Importance in Rural Areas in Turkey**  
BOSTAN BUDAK D., ZAIÑOĐLU B. Z., BUDAK F.  
Global Journal of Agricultural Innovation, Research Development, vol.2, no.2, pp.38-42, 2015 (Peer-Reviewed Journal)
- XVII. **conceptualizing a wetland research agenda for developing countries**  
james a., ZAIÑOĐLU B. Z.  
jalaplavit, vol.4, no.3, pp.5-16, 2013 (Peer-Reviewed Journal)
- XVIII. **Conceptualizing a Wetland Research Agenda for Developing Countries.**  
anderson j., ZAIÑOĐLU B. Z.  
Jalaplavit, vol.4, no.3, pp.5-10, 2013 (Peer-Reviewed Journal)
- XIX. **Pollutant Monitoring of a Drainage Canal Receiving Industrial and Agricultural Wastewater in Çukurova Plain**  
ZAIÑOĐLU B. Z., YAVUZ S., ORKUN D.  
Journal of Biological Science, vol.6, no.4, pp.646-650, 2006 (Peer-Reviewed Journal)
- XX. **Behaviour and attitudes of students towards environmental issues at Faculty of Agriculture, Turkey**  
BOSTAN BUDAK D., BUDAK F., ZAIÑOĐLU B. Z., Kekec S., Sucu M. Y.  
Journal of Applied Sciences, vol.5, no.7, pp.1224-1227, 2005 (Peer-Reviewed Journal)
- XXI. **Behaviour and attitudes of students towards environmental issues at Faculty of Agriculture, Turkey**  
BOSTAN BUDAK D., BUDAK F., ZAIÑOĐLU B. Z., Kekec S., Sucu M. Y.  
Journal of Applied Sciences, vol.5, no.7, pp.1224-1227, 2005 (Peer-Reviewed Journal)
- XXII. **Behaviour and attitudes of students towards environmental issues at Faculty of Agriculture, Turkey**  
BOSTAN BUDAK D., BUDAK F., ZAIÑOĐLU B. Z., Kekec S., Sucu M. Y.  
Journal of Applied Sciences, vol.5, no.7, pp.1224-1227, 2005 (Peer-Reviewed Journal)
- XXIII. **Considering The Statutory Protection Of Soil in Turkey With Regard To Existing Law**  
ZAIÑOĐLU B. Z.

## Books & Book Chapters

### I. İklim Krizinde Gıda Güvenliği

ZAİMOĞLU B. Z., BALCI B., ERKURT F. E.

in: İklim Ve Sağlık, Didem Evcı Kiraz, Editor, Türkiye Klinikleri, Ankara, pp.64-68, 2022

## Refereed Congress / Symposium Publications in Proceedings

### I. Yapay Sulak Alanlar, İşletme Problemleri ve Nütrient Giderimi

YEŞİLTAŞ H. K., ZAİMOĞLU B. Z.

2. Uluslararası Üsküdar Bilimsel Araştırmalar Kongresi, İstanbul, Turkey, 29 - 30 November 2024

### II. Urban Agriculture as a Tool for Environmental Protection

ERDOĞAN R., ZAİMOĞLU B. Z.

XIX. World Congress of CIGR, 22 - 25 April 2018

### III. Environmental Importance of Olive Groves in Cultural Landscape, the Case Study of Antalya

ERDOĞAN R., ZAİMOĞLU B. Z.

XIX. World Congress OF CIGR, 22 - 25 April 2018

### IV. Treatment of Campus Wastewater By Constructed Wetland, Kampus Atık Sularının Yapay Sulak Alan Yöntemi ile Arıtılması

ZAİMOĞLU B. Z., ERDOĞAN R.

6th, International Congress of Agriculture and Environment, 11 - 13 October 2018

### V. Economical and Environmental Sustainability of Water, Suyun Ekonomik ve Çevresel Sürdürülebilirliği

ZAİMOĞLU B. Z., ERDOĞAN R.

6th ASM International Congress of Agriculture and Environment, Antalya, Turkey, 11 - 13 October 2018, vol.1, pp.407-416

### VI. Su Kalitesinin Arttırılmasında Bitki Kullanımı (Yeşil Islah-Phytoremediation)

SÖĞÜT Z., ZAİMOĞLU B. Z., ZAİMOĞLU B. Z., ERDOĞAN R., DOĞAN S.

Türkiye Kıyıları 2002, Türkiye'nin Kıyı ve Deniz Alanları IV. Ulusal Konferansı, İzmir, Turkey, 5 - 08 November 2002, vol.2, pp.1007-1016

### VII. What Might be the Strategy for Phytoremediation of Contaminated Soil and Water in Mediterranean Region in Adana

ZAİMOĞLU B. Z., SÖĞÜT Z., KÜÇÜK R.

EPMR 2002 International Conference Environmental Problems of the Mediterranean Region, Near East University, Cyprus (Kktc), 12 - 15 April 2002, pp.1

### VIII. Seralarda İklimlendirme

BAYTORUN A. N., ZAİMOĞLU B. Z., AKYÜZ A.

2. Uluslararası Turfanda Şurası, Mersin, Turkey, 28 - 29 April 2000

### IX. Seralarda iklimlendirme.

BAYTORUN A. N., AKYÜZ A., ZAİMOĞLU B. Z.

Uluslararası Turfanda Surası, İçel, Turkey, 27 - 29 January 2000, vol.1, pp.22-33

## Expert Reports

### I. The pollution of the seawater caused by the refinery of annaba and ways to reduce it

ZAİMOĞLU B. Z.

2015

## Supported Projects

BUDAK F., Yılmaz S., ZAIMOĞLU B. Z., ARIKAN B., GÜZEL B., Project Supported by Higher Education Institutions, Biyodizel Üretiminde Kullanılabilir Mikroalg Türlerinin Saptanması Üretim Optimizasyonunu ve Çevresel TeknoEkonomik Analizi, 2015 - 2021

ZAIMOĞLU B. Z., Project Supported by Higher Education Institutions, The Balance Between Renewables And Fossils For Next Decade, 2017 - 2017

ZAIMOĞLU B. Z., Project Supported by Higher Education Institutions, Doğal Sulak Alan Bitkilerinin Nano Boyutlu Ağır Metal Kirliliğinin Bertarafında Kullanım Olanaklarının Araştırılması, 2013 - 2016

ZAIMOĞLU B. Z., Project Supported by Higher Education Institutions, Çilek (Fragaria ananassa) Bitkisinin Çinko ve Gümüş Biriktirme Kapasitesinin Araştırılması, 2013 - 2015

## Metrics

Publication: 110

Citation (WoS): 51

Citation (Scopus): 67

H-Index (WoS): 5

H-Index (Scopus): 5

## Non Academic Experience

ZAIMOĞLU AS

GIDA TARIM VE HAYVANCILIK BAKANLIĞI