



ASLI SEYHAN ÇIĞGIN

PROF.

Email : asliciggin@akdeniz.edu.tr

Office Phone : [+90 242 310 6369](tel:+902423106369)

Fax Phone : [+90 242 310 6306](tel:+902423106306)

Address : Akdeniz Universitesi Dumlupınar Bulvarı
Mühendislik Fakültesi Çevre Mühendisliği Bölümü Kat:3 Oda
No:C337 07058 Antalya

International Researcher IDs

ORCID: 0000-0002-3290-7112

Publons / Web Of Science ResearcherID: M-7311-2014

ScopusID: 15821658900

Yoksis Researcher ID: 218371



Learning Knowledge

Post Doctorate 2013 - 2014	Akdeniz University, Faculty Of Engineering, Department of Environmental Engineering, Turkey
Doctorate 2005 - 2011	Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendliği Bölümü Environmental Biotechnology Programı, Turkey
Postgraduate 2002 - 2005	Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendliği Bölümü Environmental Biotechnology Programı, Turkey
Undergraduate 1998 - 2002	Suleyman Demirel University, Mühendislik Ve Mimarlık Fakültesi, Çevre Mühendisliği Bölümü, Turkey

Dissertations

Doctorate, Growth and Storage Kinetics of Activated Sludge Systems Operated with Various Carbon Sources for Different Sludge Ages (Değişik Karbon Kaynaklarında Çalıştırılan Aktif Çamur Sistemlerinde Farklı Çamur Yaşlarında Çoğalma ve Depolama Kinetiği), Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendliği Bölümü Environmental Biotechnology Programı, 2011

Postgraduate, The Effect of Feeding Patterns and Sludge History on Storage under Anoxic Conditions (Anoksik Koşullarda Besleme Şeklinin ve Mikroorganizma Geçmişinin Depolama Kavramı Üzerindeki Etkisi), Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendliği Bölümü Environmental Biotechnology Programı, 2005

Academic Titles / Tasks

Professor
2023 - Continues

Akdeniz University, Faculty of Engineering, Department of Environmental
Engineering

Associate Professor
2017 - 2023

Akdeniz University, Faculty of Engineering, Department of Environmental
Engineering

Assistant Professor
2014 - 2018

Akdeniz University, Faculty of Engineering, Department of Environmental
Engineering

Supported Projects

1. Karadirek İ. E., Çığgı A. S., Kaya Başar E., TUBİTAK Project, Su Dağıtım Sistemlerinde İdari Su Kayıplarının Yönetimi İçin En Uygun Sayaç Değişimi Periyodunun Belirlenmesi, 2023 - 2026
2. MERDUN H., ÇIĞGIN A. S., SEZGİN İ. V., BOUBACAR LAOUGE Z., Project Supported by Higher Education Institutions, Arıtma çamurunun hızlı piroliz parametrelerinin optimizasyonu ve ürünlerin karakterizasyonu, 2019 - 2021
3. ÇIĞGIN A. S., MERDUN H., Başbuğ Özkan N., Project Supported by Higher Education Institutions, Zeytinyağı üretim atıksularının biyolojik arıtılabilirliğine ileri oksidasyon prosesleri ile ön arıtımın etkisi, 2018 - 2020
4. MERDUN H., ÇIĞGIN A. S., VAROL M., SEZGİN İ. V., BOUBACAR Z., Project Supported by Higher Education Institutions, Türkiyede en yaygın bulunan tarımsal biyokütle atıklarının içerik ve ısı davranışlarının araştırılması, 2018 - 2018
5. Çığgı A. S., TUBİTAK Project, Arıtma Çamurlarının Ototermal Termofilik Aerobik Çürütme (Atad) İle Stabilizasyonu İçin Optimum Proses Koşullarının Araştırılması, 2017 - 2018
6. ÇIĞGIN A. S., Project Supported by Higher Education Institutions, Arıtma Çamurlarının Ultrasonik Dezentegrasyonun Çamur Susuzlaştırmaya Etkisi, 2016 - 2017
7. ÇIĞGIN A. S., Bahar S., Project Supported by Higher Education Institutions, Atık Aktif Çamurun Aerobik Stabilizasyonu ve Ultrasonik Dezentegrasyonu için Optimum Proses Koşullarının belirlenmesi, 2016 - 2016
8. YALDIZ O., PERENDECİ N. A., AKMAN H. E., ÇIĞGIN A. S., KÖKDEMİR ÜNŞAR E., YILMAZ F., Project Supported by Higher Education Institutions, Sera Atıkları ve Büyükbaş Hayvan Gübresinden Biyogaz Üretim Prosesinin Optimizasyonu ve Modellemesi, 2015 - 2016
9. Perendeci N. A., TUBİTAK Project, Sera Atıklarından Biyometan Üretim Veriminin Artırılması Amacıyla Mekanik Parçalama, Ultrases ve Enzimatik Ön Arıtım Proseslerinin Optimizasyonu ve Modellenmesi, 2012 - 2014
10. Sözen S., TUBİTAK Project, Membran Biyoreaktörlerin Kısıtlı İşletme Koşullarında (Düşük Hidrolik Bekletme ve Düşük Çamur Bekletme Süreleri Uygulanarak) Karbon Giderimine Yönelik Performansının İncelenmesi ve Oluşan Çamurun Yakıt Olarak Kullanımının Değerlendirilmesi, 2010 - 2012
11. Sözen S., FP6 Project, Integrated high resolution imaging ground penetrating radar and decision support system for water pipeline rehabilitation, 2007 - 2009
12. Sözen S., EU Supported Other Project, Autonomous desalination system concepts for sea water and brackish water in rural areas with renewable energies– Potentials, technologies, field experience, socio-technical and socio-economic impacts, 2004 - 2008

Scholarships

TÜBİTAK 2218 – Yurt İçi Doktora Sonrası Araştırma Burs Programı, Antalya, Türkiye., TUBİTAK, 2013 - 2014
TÜBİTAK 2214 - Yurt Dışı Araştırma Burs Programı, Roma, İtalya., TUBİTAK, 2009 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Fabrication, characterization and treatment of polymeric membranes with submerged membrane bioreactor system: fruit juice industry wastewater**
Güneş-Durak S., ÇİĞGIN A. S., TÜFEKÇİ N.
International Journal of Environmental Science and Technology, vol.20, no.6, pp.6419-6432, 2023 (SCI-Expanded)
2. **Effects of biological pre-digestion of sewage sludge processed by fast pyrolysis on bio-oil yield and biochar toxicity**
Merdun H., Boubacar Laougé Z., Sezgin İ. V., Çığgin A. S.
Waste Management, vol.157, pp.149-158, 2023 (SCI-Expanded)
3. **Efficient environmentally friendly enzymatic and ultrasonic pretreatment of lignocellulosic wastes for enhanced methane production**
ÇİĞGIN A. S., YILMAZ F., PERENDEÇİ N. A.
Biomass Conversion and Biorefinery, 2023 (SCI-Expanded)
4. **Synergistic effects on co-pyrolysis and co-combustion of sludge and coal investigated by thermogravimetric analysis**
Merdun H., Laouge Z. B., Çığgin A. S.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.146, no.6, pp.2623-2637, 2021 (SCI-Expanded)
5. **Co-metabolism of olive mill wastewater in sequencing batch reactor under aerobic conditions after Fenton-based oxidation**
Çığgin A. S., Iravanian A., Doğruel S., Orhon D.
Journal of Water Process Engineering, vol.43, 2021 (SCI-Expanded)
6. **Impact of ultrasonic pretreatment on Fenton-based oxidation of olive mill wastewater-towards a sustainable treatment scheme**
Çığgin A. S., Sarica E. S., Doğruel S., Orhon D.
JOURNAL OF CLEANER PRODUCTION, vol.313, 2021 (SCI-Expanded)
7. **Pretreatment, Anaerobic Codigestion, or Both? Which Is More Suitable for the Enhancement of Methane Production from Agricultural Waste?**
Dumlu L., ÇİĞGIN A. S., Rucman S., PERENDEÇİ N. A.
MOLECULES, vol.26, no.14, 2021 (SCI-Expanded)
8. **Effect of Fenton oxidation on the toxicity of carpet manufacturing effluents**
Çığgin A. S., Özcan O., Gokcekus H., Orhon D.
DESALINATION AND WATER TREATMENT, vol.215, pp.268-278, 2021 (SCI-Expanded)
9. **Potential of auto-thermal mesophilic aerobic stabilization for sludge reduction and organic carbon removal**
Çığgin A. S., Orhon D.
DESALINATION AND WATER TREATMENT, vol.215, pp.319-327, 2021 (SCI-Expanded)
10. **Optimization and characterization of bio-oil from fast pyrolysis of Pearl Millet and Sida cordifolia L. by using response surface methodology**
LAOUGE Z. B., ÇİĞGIN A. S., MERDUN H.
FUEL, vol.274, 2020 (SCI-Expanded)
11. **Optimization of alkaline hydrothermal pretreatment of biological sludge for enhanced methane generation under anaerobic conditions**
PERENDEÇİ N. A., ÇİĞGIN A. S., KÖKDEMİR ÜNŞAR E., Orhon D.
Waste Management, vol.107, pp.9-19, 2020 (SCI-Expanded)
12. **Role of inoculum and feeding strategy in the preference of nitrogen removal pathway in case of the fluctuations in nitrogen loading rate**
Cobansoy S., Kolukırık M., Ciggin A. S.
Journal of Chemical Technology and Biotechnology, vol.94, no.7, pp.2389-2397, 2019 (SCI-Expanded)
13. **A simple kinetic modeling approach for aerobic stabilization of real waste activated sludge**
Bahar S., Çığgin A. S.
CHEMICAL ENGINEERING JOURNAL, vol.303, pp.194-201, 2016 (SCI-Expanded)
14. **Long and short term impacts of CuO, Ag and CeO₂ nanoparticles on anaerobic digestion of municipal**

waste activated sludge

Unsar E., ÇİĞGIN A. S., ERDEM A., PERENDEÇİ N. A.

Environmental Science: Processes and Impacts, vol.18, no.2, pp.277-288, 2016 (SCI-Expanded)

15. **Anaerobic co-digestion of sewage sludge with switchgrass: Experimental and kinetic evaluation**
ÇİĞGIN A. S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.1, pp.15-21, 2016 (SCI-Expanded)
16. **Effect of storage on the respirometric relationship between substrate utilization and microbial growth**
ÇİĞGIN A. S., Orhon D.
BIORESOURCETECHNOLOGY, vol.167, pp.331-335, 2014 (SCI-Expanded)
17. **Model evaluation of starch utilization by acclimated biomass with different culture history under pulse and continuous feeding**
ÇİĞGIN A. S., Insel H. G., Majone M., Orhon D.
BIORESOURCETECHNOLOGY, vol.138, pp.163-171, 2013 (SCI-Expanded)
18. **Extent of intracellular storage in single and dual substrate systems under pulse feeding**
ÇİĞGIN A. S., Rossetti S., Majone M., Orhon D.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.20, no.3, pp.1225-1238, 2013 (SCI-Expanded)
19. **Aerobic metabolism of mixed carbon sources in sequencing batch reactor under pulse and continuous feeding**
ÇİĞGIN A. S., Orhon D., Capitani D., Miccheli A., Puccetti C., Majone M.
BIORESOURCETECHNOLOGY, vol.129, pp.118-126, 2013 (SCI-Expanded)
20. **Intracellular storage of acetate/starch mixture by fast growing microbial culture in sequencing batch reactor under continuous feeding**
ÇİĞGIN A. S., Majone M., Orhon D.
BIORESOURCETECHNOLOGY, vol.119, pp.331-338, 2012 (SCI-Expanded)
21. **Respirometric evaluation and modelling of acetate utilization in sequencing batch reactor under pulse and continuous feeding**
ÇİĞGIN A. S., Insel H. G., Majone M., Orhon D.
BIORESOURCETECHNOLOGY, vol.107, pp.61-69, 2012 (SCI-Expanded)
22. **Effect of feeding regime and the sludge age on the fate of acetate and the microbial composition in sequencing batch reactor**
ÇİĞGIN A. S., Rossetti S., Majone M., Orhon D.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.47, no.2, pp.192-203, 2012 (SCI-Expanded)
23. **Effect of dual substrate environment on the formation of intracellular storage biopolymers**
ÇİĞGIN A. S., Majone M., Orhon D.
ENVIRONMENTAL TECHNOLOGY, vol.33, no.13, pp.1491-1496, 2012 (SCI-Expanded)
24. **Effect of feeding and sludge age on acclimated bacterial community and fate of slowly biodegradable substrate**
ÇİĞGIN A. S., Rossetti S., Majone M., Orhon D.
BIORESOURCETECHNOLOGY, vol.102, no.17, pp.7794-7801, 2011 (SCI-Expanded)
25. **Short-term and long-term effects on carbon storage of pulse feeding on acclimated or unacclimated activated sludge**
ÇİĞGIN A. S., Orhon D., Rossetti S., Majone M.
WATER RESEARCH, vol.45, no.10, pp.3119-3128, 2011 (SCI-Expanded)
26. **Research potential of doctoral studies on environmental sciences and engineering**
ÇİĞGIN A. S., Pala I., Katipoglu T., Dülekürgen E., Meric S., Orhon D.
DESALINATION AND WATER TREATMENT, vol.26, no.1-3, pp.3-13, 2011 (SCI-Expanded)
27. **Effect of high nitrate concentration on PHB storage in sequencing batch reactor under anoxic conditions**

- ÇİĞGIN A. S., Karahan O., Orhon D.
BIORESOURCETECHNOLOGY, vol.100, no.3, pp.1376-1382, 2009 (SCI-Expanded)
28. **Effect of feeding pattern on biochemical storage by activated sludge under anoxic conditions**
ÇİĞGIN A. S., Karahan O., Orhon D.
WATER RESEARCH, vol.41, no.4, pp.924-934, 2007 (SCI-Expanded)
29. **Effect of biochemical storage on the denitrification potential of acetate in sequencing batch reactors**
ÇİĞGIN A. S., Karahan O., Orhon D.
WATER SCIENCE AND TECHNOLOGY, vol.55, no.10, pp.261-268, 2007 (SCI-Expanded)

Articles Published in Other Journals

1. **Arıtma Çamurlarının Stabilizasyonunda Ototermal Termofilik Aerobik Çürütme (ATAD) Prosesinin Önemi ve Avantajları**
Çığgın A. S., Yurdakul M.
Çevre, Bilim ve Teknoloji, vol.4, no.1, pp.49-62, 2019 (Peer-Reviewed Journal)
2. **Effects of Mixture Ratio of Cow Manure and Greenhouse Wastes on Anaerobic Co-digestion Process**
AKMAN H. E., AKMAN E., ÇİĞGIN A. S., PERENDECİ N. A., YALDIZ O.
CIGR Journal, vol.SP, no. World Congress of CIGR, pp.160-168, 2015 (Peer-Reviewed Journal)
3. **Optimum solid loading rate for biogas production from agricultural wastes**
AKMAN H. E., Akman E., ÇİĞGIN A. S., PERENDECİ N. A., YALDIZ O.
TARIM MAKİNALARI BİLİMİ DERGİSİ, vol.10, no.3, pp.219-224, 2014 (Peer-Reviewed Journal)
4. **Karışık karbon kaynağı ortamının nişasta giderim performansı ve bakteriyel kompozisyon üzerine etkisi.**
ÇİĞGIN A. S., Majone M., Orhon D.
İTÜ DERGİSİ SERİ E: SU KİRLENMESİ KONTROLÜ, vol.21, no.2, pp.37-46, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

1. **ZEYTİNYAĞI ÜRETİM ATIKSULARININ ARITIMINDA SON GELİŞMELER**
ÇİĞGIN A. S., TÜRKOĞLU DEMİRKOL G.
in: ÇEVRE BİLİM VE TEKNOLOJİ, Türkdoğan F.İ., İskender G., Övez S., Tüfekci N., Editor, Güven Plus Grup A.Ş. Yayınları, İstanbul, pp.411-439, 2018

Refereed Congress / Symposium Publications in Proceedings

1. **Effect of Ultrasound on the Treatment of Olive Mill Wastewaters**
SARICA S., ÇİĞGIN A. S.
10th IWA International Symposium on Waste Management Problems in Agro-Industries, 19 - 21 July 2019
2. **The effect of ultrasonic disintegration on the solar drying of sewage sludge**
ÇİĞGIN A. S.
SMICE 2018, Sludge Management In Circular Economy, 23 - 25 May 2018, pp.265-267
3. **Modelling the impacts of CuO, Ag and CeO₂ nanoparticles on waste activated sludge anaerobic digestion**
KÖKDEMİR ÜNŞAR E., ÇİĞGIN A. S., PERENDECİ N. A.
14th World Congress on Anaerobic Digestion, Vina Del Mar, Chile, 15 - 18 November 2015
4. **Sera atıklarından metan üretim veriminin artırılması için alkali hidrojen peroksit (AHP) ön arıtım prosesinin optimizasyonu**
Gökgöl S., ÇİĞGIN A. S., PERENDECİ N. A.

11. Ulusal Çevre Mühendisliği Kongresi, Bursa, Turkey, 15 - 17 October 2015
5. **Synergetic Effects of Ultrasound Power and Reaction Time on The Biogas Production From Lignocellulosic Wastes**
ÇİĞGIN A. S., PERENDECİ N. A.
18. International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Girit, Greece, 26 - 30 September 2015, pp.26-30
6. **Optimization of the High Temperature-NaOH Pretreatment Process of Waste Activated Sludge for Enhanced Biogas Production**
ÇİĞGIN A. S., KÖKDEMİR ÜNŞAR E., PERENDECİ N. A.
TAKAG 2015 Young Researchers' Forum, İzmir, Turkey, 26 - 29 May 2015
7. **Co-digestion of dairy and chicken manure with corn harvesting residues to improve biogas production potential**
Bahar S., ÇİĞGIN A. S., KÖKDEMİR ÜNŞAR E., Karışlı H., PERENDECİ N. A.
International Workshop on Biogas and Compost, Antalya, Turkey, 5 - 06 December 2014
8. **Digestate quality of agricultural and livestock wastes. International Workshop on Biogas and Compost**
Gökçöl S., ÇİĞGIN A. S., KÖKDEMİR ÜNŞAR E., Karışlı H., PERENDECİ N. A.
International Workshop on Biogas and Compost, Antalya, Turkey, 5 - 06 December 2014
9. **Effect of high frequency ultrasound pretreatment on the biogas production from lignocellulosic wastes**
Öğüş N., Altıntaş K., Kayır T., Seyidoğlu S., PERENDECİ N. A., ÇİĞGIN A. S.
International Workshop on Biogas and Compost, Antalya, Turkey, 5 - 06 December 2014
10. **Enhancement of Biogas Production from Greenhouse Wastes by Pre-treatment and Co-digestion**
Dumlu L., ÇİĞGIN A. S., PERENDECİ N. A.
18th World Congress of CIGR, International Commission of Agricultural and Biosystems Engineering, Pekin, China, 16 - 19 September 2014, pp.15-19
11. **Effects of mixture ratio of cow manure and greenhouse wastes on anaerobic co-digestion process**
AKMAN H. E., AKMAN E., ÇİĞGIN A. S., PERENDECİ N. A., YALDIZ O.
18th World Congress of CIGR, International Commission of Agricultural and Biosystems Engineering, Beijing, China, 16 - 19 September 2014
12. **Optimum Solid Loading Rate for Biogas Production from Agricultural Wastes**
AKMAN H. E., Akman E., ÇİĞGIN A. S., PERENDECİ N. A., YALDIZ O.
12th International Congress on Mechanization, Energy in Agriculture, Nevşehir, Turkey, 3 - 06 September 2014, pp.45-49
13. **Çukurova bölgesinde oluşan tarımsal ve hayvansal atıklardan biyogaz yoluyla enerji üretimi**
PERENDECİ N. A., ÇİĞGIN A. S., Karışlı H.
Endüstriyel Simbiyoz Konferansı, Ankara, Turkey, 19 - 20 February 2014
14. **Evaluation of Anaerobic Co-Digestion Process of Peanut and Cotton Residues with Sewage Sludge by Simplified Mathematical Modelling**
ÇİĞGIN A. S., KÖKDEMİR ÜNŞAR E., PERENDECİ N. A.
11th IWA Conference on Instrumentation, Control and Automation, Narbonne, France, 18 - 20 September 2013, pp.61
15. **Bardenpho prosesinde fosfor gideriminden sorumlu mikrorganizmaların FISH metoduyla tespit edilmesi ve fosfor giderim performansının değerlendirilmesi**
Sezal H., Demirkaplan C., Kümük E., PERENDECİ N. A., ÇİĞGIN A. S.
10. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 12 - 14 September 2013
16. **Tohum üretimi aşamasında oluşan bitki ve meyve atıklarından aerobik koşullarda kompost üretimi**
Çoban Ö., Bahar S., Tarlan S., Çolak G., Yüksel M., ÇİĞGIN A. S., PERENDECİ N. A.
10. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 12 - 14 September 2013
17. **Fate of readily and/or slowly biodegradable COD in activated sludge**
ÇİĞGIN A. S., Rossetti S., Majone M., Orhon D.

16. International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Ioannina, Greece, 24 - 27 September 2011, pp.18
18. **Katı Atık Depolama Sahası Sızıntı Sularının Arıtılmasında Ters Ozmoz Yöntemi Uygulanması**
Çetin S., ÇİĞGIN A. S., Gültekin M., Akat Ö.
3. Ulusal Katı Atık Yönetimi Kongresi (UKAY), Ankara, Turkey, 7 - 10 September 2011, pp.651-657
19. **Effect of hydraulic and organic loads in Sequencing Batch Reactor on microbial ecology of mixed cultures and storage of polyhydroxyalkanoates**
Majone M., Valentino F., Villano M., ÇİĞGIN A. S., Lampis S., Rossetti S., Beccari M.
. 3rd Workshop on Mixed Culture Polyhydroxyalkanoates production (MMC PHA), Lizbon, Portugal, 09 April 2010, pp.1
20. **Effect of High Nitrate Concentration on PHB Storage in a Denitrifying SBR**
Çığgın A. S., Karahan Ö., Orhon D.
4th Sequencing Batch Reactor Technology Conference, Rome, Italy, 7 - 10 April 2008, pp.17-20
21. **The effect of sludge history on aerobic sludge stabilization efficiency**
Orhon D., Gökçekuş H., Sözen S., Karahan Ö., Dulekgurgen E., ÇİĞGIN A. S.
International conference on environment: survival and sustainability, Lefkoşe, Cyprus (Kkct), 19 - 24 February 2007, pp.439-440
22. **Effect of Biochemical Storage on the Denitrification Potential of Activated Sludge Systems**
ÇİĞGIN A. S., Karahan Ö., Orhon D.
7th International Symposium on Waste Management Problems in Agro-Industries, Amsterdam, Netherlands, 27 - 29 September 2006, pp.419-424
23. **Conceptual Approach for the Desalination Practices with Renewable Energies in Turkey**
Sözen S., Teksoy S., Başak S., ÇİĞGIN A. S., Seibert U., Vogt G.
3rd Dubrovnik Conference On Sustainable Development of Energy Water and Environment Systems, Dubrovnik, Croatia, 5 June - 10 May 2005, pp.50
24. **Autonomous Desalination As An Alternative Approach To Decentralized Water Management**
Sözen S., Teksoy S., Başak S., ÇİĞGIN A. S.
1st ZERO-M Conference on Sustainable Water Management, İstanbul, Turkey, 15 - 16 March 2005, pp.49-53

Academic and Administrative Experience

2023 - Continues	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi	Akdeniz University, Faculty Of Engineering, Department of Environmental Engineering
2022 - Continues	Enstitü Yönetim Kurulu Üyesi	Akdeniz University, Institute of Science
2019 - Continues	Deputy Head of Department	Akdeniz University, Faculty of Engineering, Department of Environmental Engineering
2017 - Continues	Exam Program Preparation Commission Member	Akdeniz University, Faculty Of Engineering
2020 - 2023	Fakülte Kurulu Üyesi	Akdeniz University, Faculty Of Engineering, Doçent Temsilcisi
2020 - 2022	BAP Subcommittee Member	Akdeniz University, Institute of Science

Courses

Bioconversion of Wastes, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Biological Processes, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Analytical Chemistry, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Microbiology of Wastewater, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Operation of Treatment Facilities, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
General Chemistry, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Çevre Hukuku, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Chemical Processes, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Advanced Biological Wastewater Treatment, Postgraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Modelling of Activated Sludge Systems, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Activated Sludge Biology, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Bioconversion of Wastes, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
System Design and Modelling of Aerobic Processes, Doctorate, 2017 - 2018, 2015 - 2016
Operation of Treatment Facilities, Undergraduate, 2017 - 2018, 2016 - 2017
Çevre Yönetimi, Undergraduate, 2016 - 2017
Modelling of Activated Sludge Systems, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Advising Theses

ÇİĞGIN A. S., Tekstil endüstrisi atıksularının biyolojik arıtılabilirliğine fenton ve fenton benzeri proseslerin etkisi, Postgraduate, Ö.Özgür(Student), 2019
ÇİĞGIN A. S., Zeytinyağı üretim atıksularının biyolojik arıtılabilirliğine fenton bazlı oksidasyon proseslerinin etkisi, Postgraduate, E.Selinay(Student), 2019
ÇİĞGIN A. S., Anammox bakterilerinin aklımasyonu için uygun aşı çamurunun belirlenmesi, Postgraduate, S.ÇOBANSOY(Student), 2018
ÇİĞGIN A. S., Arıtma çamuru süzöntü sularından biyolojik stabilizasyon sonrası magnezyum amonyum fosfat çöktürmesi ile azot giderimi, Postgraduate, G.KILIÇ(Student), 2018
ÇİĞGIN A. S., Yüksek Katı Madde Yüklemeinin Aerobik Çamur Stabilizasyonu Proses Verimine Etkisi, Postgraduate, O.ZENGİN(Student), 2017
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Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Environmental Modeling, Industrial and Hazardous Waste Management, Life Sciences, Biotechnology, Bioreactor, Environmental Biotechnology, Natural Sciences, Engineering and Technology