

Prof. SEVGİ ERTUĞRUL KARATAY

Personal Information

Office Phone: [+90 312 212 6720](tel:+903122126720) Extension: 8708

Email: sertugrul@ankara.edu.tr

Web: <https://avesis.ankara.edu.tr/sertugrul>

Address: Ankara Üniversitesi Tandoğan Yerleşkesi Fen Fakültesi Biyoloji Bölümü A blok Beşevler/Ankara

International Researcher IDs

ScholarID: G2KjxtMAAAAJ

ORCID: 0000-0001-9544-0276

Publons / Web Of Science ResearcherID: AAH-7457-2020

ScopusID: 57044495900

Yoksis Researcher ID: 109673

Education Information

Post Doctorate, Universiteit Gent, Belgium 2011 - 2012

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 2005 - 2010

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Ankara University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1998 - 2002

Dissertations

Doctorate, Mikrobiyel lipitlerin biyodizel üretiminde kullanım kapasitelerinin belirlenmesi, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), 2010

Postgraduate, Zeytinyağı fabrikası atıksularından lipaz üreten mikroorganizmaların izolasyonu, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), 2005

Research Areas

Life Sciences, Biotechnology, Environmental Biology, Microbiology, Natural Sciences

Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2018 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2012 - 2018

Research Assistant, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2002 - 2012

Courses

Genel Mikrobiyoloji II L., Undergraduate, 2022 - 2023, 2021 - 2022

Prokaryotik Çeşitlilik, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

General Microbiology II L., Undergraduate, 2022 - 2023, 2021 - 2022

Prokaryotic Diversity, Undergraduate, 2022 - 2023, 2021 - 2022
Biyoenjenerji ve Metabolizma, Doctorate, 2022 - 2023, 2021 - 2022
General Microbiology II, Undergraduate, 2022 - 2023, 2021 - 2022
Mikrobiyel Biyoenerji, Postgraduate, 2022 - 2023, 2021 - 2022
Genel Mikrobiyoloji II, Undergraduate, 2022 - 2023, 2021 - 2022
Biofuels, Undergraduate, 2022 - 2023, 2021 - 2022
Genel Mikrobiyoloji I, Undergraduate, 2022 - 2023, 2021 - 2022
804573 Mikrobiyel Biyoenerji, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
804532 Biyoenerji ve Metabolizma, Doctorate, 2022 - 2023, 2021 - 2022
Biyoyakıtlar, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
General Biology L., Undergraduate, 2022 - 2023, 2021 - 2022
Genel Mikrobiyoloji I L., Undergraduate, 2022 - 2023, 2021 - 2022
Biofuels, Undergraduate, 2022 - 2023
General Biology I, Undergraduate, 2022 - 2023, 2021 - 2022
BİY 210 Genel Mikrobiyoloji II, Undergraduate, 2016 - 2017
BİY210 Genel Mikrobiyoloji Laboratuvarı, Undergraduate, 2015 - 2016
BİY 209, BİY 210 Genel Mikrobiyoloji, Undergraduate, 2014 - 2015
Biyoyakıtlar, Undergraduate, 2013 - 2014, 2012 - 2013
Genel Mikrobiyoloji Uygulama, Undergraduate, 2013 - 2014, 2012 - 2013

Advising Theses

Ertuğrul Karatay S., Remazol Brilliant Blue R arıtımında kullanılmak üzere *Chlorella vulgaris* üretiminde gıda atıklarının değerlendirilmesi, Postgraduate, S.BÜŞRA(Student), 2023
Ertuğrul Karatay S., Mikroalg tabanlı biyoetanol üretiminde *Chlorella vulgaris* biyokütlesinin kullanımı, Postgraduate, M.KARTAL(Student), 2023
Ertuğrul Karatay S., Zirai Atıkların ve Mikroalgal Biyokütlenin Biyobütanol Üretiminde Kullanım Kapasitelerinin Belirlenmesi, Doctorate, N.TEKİN(Student), 2023
Ertuğrul Karatay S., Endüstriyel sebze atıklarının biyoetanol ve antosiyanin üretiminde kullanımlarının belirlenmesi, Postgraduate, A.GERBAGA(Student), 2022
Ertuğrul Karatay S., Endüstriyel çay atığından biyoetanol üretimi, Postgraduate, E.AÇIKEL(Student), 2022
ERTUĞRUL KARATAY S., Reaktif black 5 tekstil boyasının biyogideriminde surfaktan kullanımı, Postgraduate, H.ELÇİN(Student), 2021
ERTUĞRUL KARATAY S., *Chlorella vulgaris* mikroalginden biyodizel üretime zirai atık kullanımının etkisinin belirlenmesi, Postgraduate, B.ERGÖRÜNLÜ(Student), 2021
ERTUĞRUL KARATAY S., The usage of microorganisms for lithium(I) bioremoval, Postgraduate, G.BÜŞRA(Student), 2019
ERTUĞRUL KARATAY S., Reaktif boyaların biyogideriminde fungal biyokütle kullanımı, Postgraduate, İ.ÖZEREN(Student), 2019
ERTUĞRUL KARATAY S., The usage of fungi for textile dyes, Postgraduate, G.BODUR(Student), 2019
ERTUĞRUL KARATAY S., Investigation of bioethanol production potentials of agricultural wastes, Doctorate, E.DEMİRAY(Student), 2019
ERTUĞRUL KARATAY S., The usage of surfactants for copper (II) bioremoval, Postgraduate, H.KAAN(Student), 2018
ERTUĞRUL KARATAY S., Decolorization of reactive black 5 dye with halotolerant yeasts, Postgraduate, B.ŞEYMA(Student), 2018
ERTUĞRUL KARATAY S., İmidaclopridin gideriminde mikroorganizma kullanım olanaklarının araştırılması, Postgraduate, S.İŞILDAK(Student), 2017
ERTUĞRUL KARATAY S., *Dunaliella* cinsine ait türlerin biyoetanol üretiminde hammadde olarak kullanım kapasitelerinin belirlenmesi, Postgraduate, M.ERDOĞAN(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A study on bioremoval of a neonicotinoid insecticide, imidacloprid, by a newly isolated *Acremonium sclerotigenum***
Isildak S., Tekin N., ERTUĞRUL KARATAY S., DÖNMEZ G.
BIOLOGIA, 2024 (SCI-Expanded)
- II. **Bioethanol production from mulberry pomace by newly isolated non-conventional yeast *Hanseniaspora uvarum***
Kabadayı H. K., DEMİRAY E., Karatay S., DÖNMEZ G.
Biomass Conversion and Biorefinery, vol.14, no.9, pp.10611-10620, 2024 (SCI-Expanded)
- III. **Enhanced Cu(II) bioremoval by newly isolated *Kluyveromyces marxianus* with sodium dodecyl sulphate**
Kabadayı H. K., DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
BIOREMEDIATION JOURNAL, 2024 (SCI-Expanded)
- IV. **Sequential Anthocyanin Extraction and Ethanol Production from Eggplant Peel Through Biorefinery Approach**
DEMİRAY E., Gerbağa A., ERTUĞRUL KARATAY S., DÖNMEZ G.
Bioenergy Research, vol.17, no.1, pp.383-391, 2024 (SCI-Expanded)
- V. **Third generation biobutanol production by *Clostridium beijerinckii* in a medium containing mixotrophically cultivated *Dunaliella salina* biomass**
Tekin N., Ertuğrul Karatay S., Dönmez G.
Preparative Biochemistry and Biotechnology, vol.54, no.4, pp.483-493, 2024 (SCI-Expanded)
- VI. **Reactive Black 5 bioremoval potential of newly isolated halotolerant *Kluyveromyces marxianus***
Ceyhun B. S., ERTUĞRUL KARATAY S., Demiray E., DÖNMEZ G.
BIOREMEDIATION JOURNAL, vol.28, no.2, pp.156-171, 2024 (SCI-Expanded)
- VII. **Enhanced lipid accumulation of *Chlorella vulgaris* with agricultural waste under optimized photoheterotrophic conditions**
Tekin N., Ergorunlu B., Ertuğrul Karatay S., Dönmez G.
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.5, pp.4183-4194, 2023 (SCI-Expanded)
- VIII. **Potentiality of newly isolated *Aspergillus tubingensis* in biosorption of textile dyes: equilibrium and kinetic modeling**
ERTUĞRUL KARATAY S., AKSU Z., Ozeren I., DÖNMEZ G.
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.6, pp.4777-4784, 2023 (SCI-Expanded)
- IX. **Synergistic effect of CTAB on Reactive Black 5 removal performance of *Candida tropicalis***
Demiray E., GÜNAN YÜCEL H., Ozkuzucu H. E., ERTUĞRUL KARATAY S., AKSU Z., DÖNMEZ G.
BIOREMEDIATION JOURNAL, vol.27, no.2, pp.126-136, 2023 (SCI-Expanded)
- X. **Optimization studies about efficient biobutanol production from industrial tea waste by *Clostridium beijerinckii***
Tekin N., ERTUĞRUL KARATAY S., DÖNMEZ G.
FUEL, vol.331, 2023 (SCI-Expanded)
- XI. **Optimization studies about efficient biobutanol production from industrial tea waste by *Clostridium beijerinckii***
Tekin N., Ertuğrul Karatay S., Dönmez G.
FUEL, vol.331, pp.1-9, 2023 (SCI-Expanded)
- XII. **Usage potential of apple and carrot pomaces as raw materials for newly isolated yeast lipid-based biodiesel production**
ERTUĞRUL KARATAY S., Demiray E., DÖNMEZ G.
BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.10, pp.4773-4783, 2022 (SCI-Expanded)
- XIII. **Optimization Study for Enhanced Biodiesel Production by Novel Yeast Isolates Cultivated in Dilute Acid Pretreated Pumpkin Peel**
Demiray E., ERTUĞRUL KARATAY S., DÖNMEZ G.

BIOENERGY RESEARCH, vol.15, no.3, pp.1472-1481, 2022 (SCI-Expanded)

- XIV. **Second generation bioethanol production from hemicellulolytic hydrolyzate of apple pomace by *Pichia stipitis***
Kut A., Demiray E., ERTUĞRUL KARATAY S., DÖNMEZ G.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.2, pp.5574-5585, 2022 (SCI-Expanded)
- XV. ***Saccharomyces cerevisiae* and newly isolated *Candida boidinii* co-fermentation of industrial tea waste for improved bioethanol production**
DEMİRAY E., Açıkel E., ERTUĞRUL KARATAY S., DÖNMEZ G.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.44, no.1, pp.1160-1172, 2022 (SCI-Expanded)
- XVI. **Novel application of isolated *Micrococcus luteus* and *Bacillus pumilus* for Li⁺ ion biosorption: a comparative study**
GÜNAN YÜCEL H., AKSU Z., Usta T., ERTUĞRUL KARATAY S., DÖNMEZ G.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.51, no.9, pp.892-900, 2021 (SCI-Expanded)
- XVII. **Lithium (I) biofortified *Dunaliella salina* as a potential functional nutrition supplement**
GÜNAN YÜCEL H., ERTUĞRUL KARATAY S., AKSU Z., DÖNMEZ G.
ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS, vol.56, 2021 (SCI-Expanded)
- XVIII. **Usage of soluble soy protein on enzymatically hydrolysis of apple pomace for cost-efficient bioethanol production**
Demiray E., Kut A., ERTUĞRUL KARATAY S., DÖNMEZ G.
FUEL, vol.289, 2021 (SCI-Expanded)
- XIX. **Determination of Bioethanol Production from Apricot (*Prunus armeniaca*) Pomace**
Demiray E., Ertuğrul Karatay S., Dönmez G.
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.64, 2021 (SCI-Expanded)
- XX. **Efficient bioethanol production from pomegranate peels by newly isolated *Kluyveromyces marxianus***
Demiray E., Ertuğrul Karatay S., Dönmez G.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.42, no.6, pp.709-718, 2020 (SCI-Expanded)
- XXI. **A comparative investigation of lithium(I) biosorption properties of *Aspergillus versicolor* and *Kluyveromyces marxianus***
GÜNAN YÜCEL H., AKSU Z., Yalcinkaya G. B., ERTUĞRUL KARATAY S., DÖNMEZ G.
WATER SCIENCE AND TECHNOLOGY, vol.81, no.3, pp.499-507, 2020 (SCI-Expanded)
- XXII. **Improvement of bioethanol production from pomegranate peels via acidic pretreatment and enzymatic hydrolysis**
Demiray E., Ertuğrul Karatay S., Dönmez G.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.28, pp.29366-29378, 2019 (SCI-Expanded)
- XXIII. **Efficient approaches to convert *Coniochaeta hoffmannii* lipids into biodiesel by in-situ transesterification**
ERTUĞRUL KARATAY S., Demiray E., DÖNMEZ G.
BIORESOURCING TECHNOLOGY, vol.285, 2019 (SCI-Expanded)
- XXIV. **Bioethanol production by newly isolated halotolerant *Kluyveromyces marxianus* strains**
Ertuğrul Karatay S., Demiray E., Dönmez G.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.38, no.2, pp.542-547, 2019 (SCI-Expanded)
- XXV. **Evaluation of pomegranate peel in ethanol production by *Saccharomyces cerevisiae* and *Pichia stipitis***
Demiray E., Karatay S., Dönmez G.
Energy, vol.159, pp.988-994, 2018 (SCI-Expanded)
- XXVI. **Introducing a new salty waste for second-generation bioethanol production**
Demiray E., Ertuğrul Karatay S., Ekici H., Dönmez G.

- ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, no.17, pp.2070-2078, 2018 (SCI-Expanded)
- XXVII. **Effective biosorption of phenol by the thermophilic cyanobacterium Phormidium sp.**
ERTUĞRUL KARATAY S., Donmez G., AKSU Z.
WATER SCIENCE AND TECHNOLOGY, vol.76, no.12, pp.3190-3194, 2017 (SCI-Expanded)
- XXVIII. **Experimental investigations on bioethanol production from halophilic microalgal biomass**
Ertuğrul Karatay S., Erdogan M., Donmez S., Dönmez G.
ECOLOGICAL ENGINEERING, vol.95, pp.266-270, 2016 (SCI-Expanded)
- XXIX. **The isolation of novel yeast strains for bioethanol production**
Demiray E., ERTUĞRUL KARATAY S., DÖNMEZ G.
NEW BIOTECHNOLOGY, vol.33, 2016 (SCI-Expanded)
- XXX. **THE USAGE OF CARROT POMACE FOR BIOETHANOL PRODUCTION**
Demiray E., Ertuğrul Karatay S., Donmez S., Dönmez G.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.61, no.2, pp.2996-2998, 2016 (SCI-Expanded)
- XXXI. **Removal of Remazol Blue by azoreductase from newly isolated bacteria**
ERTUĞRUL KARATAY S., Kilic N., DÖNMEZ G.
ECOLOGICAL ENGINEERING, vol.84, pp.301-304, 2015 (SCI-Expanded)
- XXXII. **Usage of thermophilic cyanobacterial biomass for bioethanol production**
Karatay S.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.34, no.3, pp.903-907, 2015 (SCI-Expanded)
- XXXIII. **An economical phenol bioremoval method using Aspergillus versicolor and agricultural wastes as a carbon source**
ERTUĞRUL KARATAY S., DÖNMEZ G.
ECOLOGICAL ENGINEERING, vol.73, pp.224-228, 2014 (SCI-Expanded)
- XXXIV. **Stimulation of Phenol Removal Efficiency of Aspergillus versicolor by Surfactants, a Promising Way to Treat Phenol-Containing Waste Waters**
ERTUĞRUL KARATAY S., GÜL Ü. D., DÖNMEZ G.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.17, no.6, pp.1223-1228, 2014 (SCI-Expanded)
- XXXV. **The usage of carrot pomace as a feedstock for bioethanol production**
Demiray E., ERTUĞRUL KARATAY S., DÖNMEZ G., Donmez S.
NEW BIOTECHNOLOGY, vol.31, 2014 (SCI-Expanded)
- XXXVI. **EVALUATION OF BIOTECHNOLOGICAL POTENTIALS OF SOME INDUSTRIAL FUNGI IN ECONOMICAL LIPID ACCUMULATION AND BIOFUEL PRODUCTION AS A FIELD OF USE**
ERTUĞRUL KARATAY S., DÖNMEZ G.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.44, no.4, pp.332-341, 2014 (SCI-Expanded)
- XXXVII. **DETERMINATION OF METHYLENE BLUE BIOSORPTION BY Rhizopus arrhizus IN THE PRESENCE OF SURFACTANTS WITH DIFFERENT CHEMICAL STRUCTURES**
ERTUĞRUL KARATAY S., GÜL Ü. D., DÖNMEZ G.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.44, no.7, pp.653-662, 2014 (SCI-Expanded)
- XXXVIII. **Bioremoval of textile dyes with different chemical structures by Aspergillus versicolor in molasses medium**
ERTİT TAŞTAN B., Karatay S., DÖNMEZ G.
WATER SCIENCE AND TECHNOLOGY, vol.66, no.10, pp.2177-2184, 2012 (SCI-Expanded)
- XXXIX. **Microbial oil production from thermophile cyanobacteria for biodiesel production**
Karatay S., DÖNMEZ G.
APPLIED ENERGY, vol.88, no.11, pp.3632-3635, 2011 (SCI-Expanded)
- XL. **Potential of Gonium spp. in Synthetic Reactive Dye Removal, Possible Role of Laccases and Stimulation by Triacntanol Hormone**
Killıç N., Karatay S., Duygu E., DÖNMEZ G.
WATER AIR AND SOIL POLLUTION, vol.222, no.1-4, pp.297-303, 2011 (SCI-Expanded)
- XLI. **Improving the lipid accumulation properties of the yeast cells for biodiesel production using**

molasses

Karatay S., DÖNMEZ G.

BIORESOURCETECHNOLOGY, vol.101, no.20, pp.7988-7990, 2010 (SCI-Expanded)

- XLII. **Methylene Blue biosorption by Rhizopus arrhizus: Effect of SDS (sodium dodecylsulfate) surfactant on biosorption properties**
AKSU Z., Ertuğrul S., DÖNMEZ G.
CHEMICAL ENGINEERING JOURNAL, vol.158, no.3, pp.474-481, 2010 (SCI-Expanded)
- XLIII. **Effective bioremoval of reactive dye and heavy metals by Aspergillus versicolor**
ERTİT TAŞTAN B., Ertuğrul S., DÖNMEZ G.
BIORESOURCETECHNOLOGY, vol.101, no.3, pp.870-876, 2010 (SCI-Expanded)
- XLIV. **Single and binary chromium(VI) and Remazol Black B biosorption properties of Phormidium sp.**
AKSU Z., Ertuğrul S., DÖNMEZ G.
JOURNAL OF HAZARDOUS MATERIALS, vol.168, no.1, pp.310-318, 2009 (SCI-Expanded)
- XLV. **Efficient Production of Bioactive Recombinant Human Flt3 Ligand in E. coli**
Verstraete K., Koch S., Ertugrul S., Vandenberghe I., Aerts M., Vandriessche G., Thiede C., Savvides S. N.
PROTEIN JOURNAL, vol.28, no.2, pp.57-65, 2009 (SCI-Expanded)
- XLVI. **Treatment of dye (Remazol Blue) and heavy metals using yeast cells with the purpose of managing polluted textile wastewaters**
ERTUĞRUL KARATAY S., San N. O., DÖNMEZ G.
ECOLOGICAL ENGINEERING, vol.35, no.1, pp.128-134, 2009 (SCI-Expanded)
- XLVII. **Treatment of dye-rich wastewater by an immobilized thermophilic cyanobacterial strain: Phormidium sp.**
ERTUĞRUL KARATAY S., BAKIR M., DÖNMEZ G.
ECOLOGICAL ENGINEERING, vol.32, no.3, pp.244-248, 2008 (SCI-Expanded)
- XLVIII. **Isolation of lipase producing Bacillus sp from olive mill wastewater and improving its enzyme activity**
Ertugrul S., Donmez G., Takac S.
JOURNAL OF HAZARDOUS MATERIALS, vol.149, no.3, pp.720-724, 2007 (SCI-Expanded)
- XLIX. **Inhibitory effects of chromium(VI) and Remazol Black B on chromium(VI) and dyestuff removals by Trametes versicolor**
Aksu Z., Kilic N. K., Ertugrul S., Donmez G.
ENZYMES AND MICROBIAL TECHNOLOGY, vol.40, no.5, pp.1167-1174, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of Food Wastes in *Chlorella vulgaris* Cultivation for Remazol Brilliant Blue R Biosorption**
Nazli S. B., Tekin N., ERTUĞRUL KARATAY S., DÖNMEZ G.
AQUATIC SCIENCES AND ENGINEERING, no.1, pp.1-7, 2024 (ESCI)
- II. **Response surface methodology based optimization studies about bioethanol production by *Candida boidinii* from pumpkin residues**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
Biotech Studies, vol.33, no.1, pp.43-51, 2024 (Scopus)
- III. **INVESTIGATION OF BRILLIANT BLUE R DYE BIOREMOVAL CAPACITY OF TRICHODERMA SP.**
BODUR G., ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
Ecological Life Sciences, vol.15, no.1, pp.1-8, 2020 (Peer-Reviewed Journal)
- IV. **YER FISTIĞI KABUĞUNDAN BİYÖETANOL ÜRETİMİ**
BOSTANCI C., ERTUĞRUL KARATAY S., DÖNMEZ G.
Gıda, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of sodium dodecyl sulphate on cu(II) biosorption**
ERTUĞRUL KARATAY S., DÖNMEZ G., KAAAN K.
2nd International Euroasian Conference on Biological and Chemical Sciences (EuroasianBioChem2019), 28 - 29 June 2019
- II. **Bioethanol Production from Turnip Juice Discards as a Raw Material by an Osmotolerant Yeast**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), June 28-29, 2019 Ankara, Turkey, Ankara, Turkey, 28 - 29 June 2019, pp.1045-1050
- III. **Bioremoval of Commonly Used Textile Dyes by Aspergillus sp.**
BODUR G., ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), June 28-29, 2019 Ankara, Turkey, Ankara, Turkey, 28 - 29 June 2019, pp.1026-1030
- IV. **Effect of Sodium Dodecyl Benzenesulfonate on the Biosorption of Reactive Black 5 by Yeast Cells**
ÖZKUZUCU H. E., DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), June 28-29, 2019 Ankara, Turkey, Ankara, Turkey, 28 - 29 June 2019, pp.1040-1044
- V. **Effect of Temperature on Conventional Transesterification of Coniochaeta hoffmannii Lipids for Biodiesel Production**
ERTUĞRUL KARATAY S., DEMİRAY E., KABADAYI K., DÖNMEZ G.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), June 28-29, 2019 Ankara, Turkey, Ankara, Turkey, 28 - 29 June 2019, pp.1022-1025
- VI. **Usage of pomegranate peels for microbial growth of bioethanol producer microorganisms**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018, pp.1591-1597
- VII. **Enzymatic hydrolysis of apricot pomaces for bioethanol production by three yeasts**
DEMİRAY E., BOSTANCI C., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018, pp.1598-1603
- VIII. **The alternative usage of hazelnut shell for biofuel production**
bostanci c., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference on Science, Engineering and Technology (EuroasianSciEnTech2018), Ankara, Turkey, 22 - 23 November 2018, pp.1604-1609
- IX. **Evaluation of turnip juice discards as a fermentation medium**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 22 - 23 November 2018, pp.1585-1590
- X. **The Usage of Dead and Living Rhizopus sp. Biomass for Pesticide Removal**
özeren i., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „SmartBio, Kaunas, Lithuania, 2 - 04 May 2018, pp.279-280
- XI. **Fungal Biosorption of the Remazol Brilliant Blue R and Optimization of Some Parameters**
özeren i., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 April - 04 May 2018, pp.173-174
- XII. **Havuç Posasının Atıksulardaki Ağır Metallerin Biyogideriminde Fermentasyon Ortamı Olarak Kullanımı**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
Uluslararası su ve Çevre Kongresi, Bursa, Turkey, 22 - 24 March 2018
- XIII. **The Usage of Low Cost Fermentation Medium for Yeast Lipid Production**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.

- International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.280-281
- XIV. **The biological bioremoval of hexavalent chromium using newly isolated fungus**
DEMİRAY E., YALÇINKAYA G., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference On Biological And Chemical Sciences, 26 - 27 April 2018
- XV. **Reactive Red bioremoval with newly isolated yeast in the presence of apple pomace medium.**
DEMİRAY E., YALÇINKAYA G., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Eurasian Conference On Biological And Chemical Sciences, 26 - 27 April 2018
- XVI. **Mycoremoval of Reactive Dyes With Different Chemical Structures in Molasses Medium**
Bodur G., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.214-215
- XVII. **Improving Second Generation Bioethanol Production Via Enzymatic Hydrolysis**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.183-184
- XVIII. **Bioethanol Production From Five Carbon Sugars**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.96-97
- XIX. **Copper(II) Bioremoval by Actively Growing Fungi**
YALÇINKAYA G., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.137-138
- XX. **A Study on Bioethanol Production From Lignocellulosic Wastes**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
International Conference „Smart Bio, Kaunas, Lithuania, 2 - 04 May 2018, pp.83-84
- XXI. **Tekstil Endüstrisinde Yaygın Kullanıma Sahip Reactive Black 5 Boyasının Farklı Mikroorganizmalarla Giderimi**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
Uluslararası su ve Çevre Kongresi, Bursa, Turkey, 22 - 24 March 2018
- XXII. **Rhizopus sp. Biyokütlesinin Tekstil Boyalarının Arıtılmasında Biyosorbent Olarak Kullanımı**
ERTUĞRUL KARATAY S., özeren i., DÖNMEZ G.
Uluslararası su ve Çevre Kongresi, Bursa, Turkey, 22 - 24 March 2018
- XXIII. **Penicillium sp. Biyokütlesinin Atıksulardaki Pestisit Gideriminde Kullanım Olanaklarının Araştırılması**
ERTUĞRUL KARATAY S., özeren i., DÖNMEZ G.
Uluslararası su ve Çevre Kongresi, Kaunas, Lithuania, 22 - 24 March 2018
- XXIV. **The Usage Of Different Kluyveromyces sp. Isolates for Ni (II) Bioremoval**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
XIXth Euroanalysis, Stockholm, Sweden, 28 August - 01 September 2017
- XXV. **The Bioremediation Of Hexavalent Chromium Using Agricultural Waste.**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
XIXth Euroanalysis, Stockholm, Sweden, 28 August - 01 September 2017
- XXVI. **Usage of carrot pomace for bioethanol production by Kluyveromyces sp**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
7th Congress of European Microbiologists (FEMS) 2017, Valencia, Spain, 9 - 13 July 2017
- XXVII. **Utilization of Saccharomyces cerevisiae for bioethanol production from turnip juice discards**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
7th Congress of European Microbiologists (FEMS) 2017, Valencia, Spain, 9 - 13 July 2017
- XXVIII. **A Study On Variables Affecting Biodiesel Production From Yeast Lipids After Soxhlet Extraction**
ERTUĞRUL KARATAY S., DÖNMEZ G.
HEEP 2017, Budapest, Hungary, 25 - 27 May 2017
- XXIX. **Biological Removal of Reactive Black 5 by Micrococcus sp**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
HEEP 2017, Budapest, Hungary, 25 - 27 May 2017
- XXX. **Copper (II) Removal From Aqueous Solutions By Growing Candida sp. in the Media Prepared With**

Carrot Pomace

ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.

HEEP 2017, Budapest, Hungary, 25 - 27 May 2017

- XXXI. **Removal Of Cu(II), Ni(II) And Cr(VI) Heavy Metals By Newly Isolated Yeasts**
ERTUĞRUL KARATAY S., DÖNMEZ G.
HEEP 2017, Budapest, Hungary, 25 - 27 May 2017
- XXXII. **Efficient Bioethanol Production From Sugar Beet Molasses By Pichia Stipitis**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
HEEP 2017, Budapest, Hungary, 25 - 27 May 2017
- XXXIII. **The usage of Aspergillus sp. biomass for imidacloprid removal**
ERTUĞRUL KARATAY S., DÖNMEZ G.
3rd International Conference On Engineering And Natural Sciences (ICENS, Budapest, Hungary, 3 - 07 May 2017
- XXXIV. **Bioremoval of textile dyes by Bacillus sp. isolates in aerobic conditions**
ERTUĞRUL KARATAY S., DEMİRAY E., DÖNMEZ G.
3rd International Conference On Engineering And Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017
- XXXV. **Reactive Black 5 Removal with Saccharomyces cerevisiae in the Presence of Sugar Beet Molasses Medium**
DEMİRAY E., KABADAYI H. K., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd IWA Regional Symposium on Water, Wastewater and Environment The Past, Present and Future of the World's Water Resources (IWA-PPFW, İzmir, Turkey, 22 - 24 March 2017
- XXXVI. **Determining of Bioethanol Production Capacity of Kluyveromyces sp. in the presence of Apple Pomace**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd IWA Regional Symposium on Water, Wastewater and Environment The Past, Present and Future of the World's Water Resources (IWA-PPFW), Çeşme, Turkey, 22 - 24 March 2017
- XXXVII. **Bioremoval of Copper (II) Ions By Candida sp. in Molasses Medium**
KABADAYI H. K., DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd IWA Regional Symposium on Water, Wastewater and Environment The Past, Present and Future of the World's Water Resources (IWA-PPFW), İzmir, Turkey, 22 - 24 March 2017
- XXXVIII. **Bioethanol Production from Turnip Juice Discards by Pichia stipitis**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
2nd IWA Regional Symposium on Water, Wastewater and Environment The Past, Present and Future of the World's Water Resources (IWA-PPFW), İzmir, Turkey, 22 - 24 March 2017
- XXXIX. **Bioremoval of textile dyes with different chemical structures by using newly isolated yeasts**
ERTUĞRUL KARATAY S., ceyhun b. ş., DÖNMEZ G.
Power of microbes in industry and environment, 28 September - 01 October 2016
- XL. **Development of alternative pretreatment method for bioethanol production from peanut shells**
bostancı c., ERTUĞRUL KARATAY S., KOÇBERBER KILIÇ N., DÖNMEZ G.
Power of microbes in industry and environment, 28 September - 01 October 2016
- XLI. **Development of Alternative Pretreatment Methods for Bioethanol Production from Peanut Shells**
Cihan B., ERTUĞRUL KARATAY S., KOÇBERBER KILIÇ N., DÖNMEZ G.
Power of Microbes in Industry and Environment, 28 September - 01 October 2016
- XLII. **Optimization studies about bioethanol production from yeast strains**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
Power of microbes in industry and environment, 28 September - 01 October 2016
- XLIII. **The isolation of novel yeast strains for bioethanol production**
DEMİRAY E., ERTUĞRUL KARATAY S., DÖNMEZ G.
17th European Congress on Biotechnology, 3 - 06 July 2016
- XLIV. **Chromium VI removal by actively growing yeast cells**
ERTUĞRUL KARATAY S., DÖNMEZ G.
X. International Biometals Symposium, 10 - 15 June 2016

- XLV. Isolation experiments for Cu II tolerant yeast cells**
ERTUĞRUL KARATAY S., DÖNMEZ G.
X. International Biometals Symposium, 10 - 15 June 2016
- XLVI. The usage of yeast cells for Nickel II bioremoval**
ERTUĞRUL KARATAY S., DÖNMEZ G.
X. International Biometals Symposium, 10 - 15 June 2016
- XLVII. Bioethanol production from agricultural wastes by *Saccharomyces cerevisiae***
erdoğan m., ERTUĞRUL KARATAY S., DÖNMEZ S., DÖNMEZ G.
6th Congress of European Microbiologists (FEMS), 7 - 11 June 2015
- XLVIII. Evaluation of bacterial enzymes in degradation of textile dyes**
ERTUĞRUL KARATAY S., KOÇBERBER KILIÇ N., DÖNMEZ G.
6th Congress of European Microbiologists (FEMS), 7 - 11 June 2015
- XLIX. Microbial removal of remazol blue by different bacteria**
Karatay S., Kilic N. K., Donmez G.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.583
- L. Using the biomass of halophilic *Dunaliella* sp microalgae for bioethanol production**
Erdogan M., Karatay S., Donmez S., Donmez G.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.607
- LI. Investigating transesterification reaction parametres of *Candida tropicalis* lipids for biodiesel production**
Karatay S., Donmez G.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.607
- LII. Investigation of the lipase activity of the bacteria isolated from olive mill wastewater**
Ertugrul S., Kocherber N., Donmez G., Takac S.
12th European Congress on Biotechnology (ECB 12), Copenhagen, Denmark, 21 - 24 August 2005, vol.118

Supported Projects

- Ertuğrul Karatay S., Tekin N., Project Supported by Higher Education Institutions, Zirai Atıkların ve Mikroalgal Biyokütlenin Biyobütanol Üretiminde Kullanım Kapasitelerinin Belirlenmesi, 2022 - 2023
- Ertuğrul Karatay S., Açikel E., Project Supported by Higher Education Institutions, Endüstriyel Çay Atığından Biyoetanol Üretimi, 2021 - 2022
- Ertuğrul Karatay S., Ergörünlü B., Project Supported by Higher Education Institutions, Chlorella Vulgaris Mikroalginden Biyodizel Üretimine Zirai Atıkların Kullanımının Etkisinin Belirlenmesi, 2020 - 2021
- Ertuğrul Karatay S., Demiray E., Project Supported by Higher Education Institutions, Biyoyakıt Üretiminde Kullanılmak Üzere Nar Kabuklarının Enzimatik Hidrolizinin Optimizasyonu, 2019 - 2020
- Ertuğrul Karatay S., Demiray E., Project Supported by Higher Education Institutions, Tarımsal Atıkların Biyoetanol Üretiminde Kullanım Olanaklarının Araştırılması, 2017 - 2019
- Ertuğrul Karatay S., TÜBİTAK Project, Mikrobiyel Biyodizel Üretiminde Elma ve Havuç Posalarının Kullanım Potansiyellerinin Araştırılması, 2017 - 2018
- Ertuğrul Karatay S., Project Supported by Higher Education Institutions, Dunaliella sp. Biyokütlesinin Biyoetanole Dönüşüm Veriminin Arttırılması, 2014 - 2015
- Ertuğrul Karatay S., Erdoğan M., Project Supported by Higher Education Institutions, Dunaliella Cinsine Ait Türlerin Biyoetanol Üretiminde Hammadde Olarak Kullanım Kapasitelerinin Belirlenmesi, 2013 - 2014
- Ertuğrul Karatay S., Dönmez G., Project Supported by Higher Education Institutions, Maya ve fungus lipidlerinin soxhlet sistemi ile ekstraksiyonu, 2010 - 2011
- Ertuğrul Karatay S., Dönmez G., Project Supported by Higher Education Institutions, Mikrobiyel hücrelerde biriktirilen yağlar ve enzimlerin biyodizel üretiminde kullanımları, 2009 - 2011

Ertuğrul Karatay S., Dönmez G., Project Supported by Higher Education Institutions, Atıksulardan izole edilen mikroorganizmaların arıtım tesislerindeki kullanım etkinliklerinin belirlenmesi, 2006 - 2007

Ertuğrul Karatay S., Dönmez G., Takaç Z. S., Project Supported by Higher Education Institutions, eşitli kaynaklardan izole edilen mikroorganizmaların lipaz enzimi üretim kapasitelerinin ve endüstriyel kullanım potansiyellerinin araştırılması, 2005 - 2006

Ertuğrul Karatay S., Dönmez G., Evren Ü., Project Supported by Higher Education Institutions, Yüksek kapasitede lipaz enzimi üreten mikroorganizmaların yağlı atıklardan izolasyonu, 2004 - 2005

Activities in Scientific Journals

Communications Faculty of Sciences University of Ankara Series C Biology, Editor, 2023 - Continues

Communications/ Faculty of Sciences University of Ankara Series C: Biology and Geological Engineering and Geophysical Engineering, Committee Member, 2022 - Continues

Scientific Refereeing

PREPARATIVE BIOCHEMISTRY AND BIOTECHNOLOGY, SCI Journal, December 2022

FUEL, SCI Journal, December 2022

BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, December 2022

FUEL, SCI Journal, November 2022

Project Supported by Higher Education Institutions, BAP Other, Ankara University, Turkey, November 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Ankara University, Turkey, October 2022

Project Supported by Higher Education Institutions, BAP Other, Ankara University, Turkey, September 2022

FUEL, SCI Journal, August 2022

WASTE AND BIOMASS VALORIZATION, SCI Journal, July 2022

BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, April 2022

BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, March 2022

MINERALS ENGINEERING, SCI Journal, March 2022

ALGAL RESEARCH, SCI Journal, January 2022

ALGAL RESEARCH, SCI Journal, January 2022

ALGAL RESEARCH, SCI Journal, January 2022

Metrics

Publication: 106

Citation (WoS): 1115

Citation (Scopus): 1338

H-Index (WoS): 15

H-Index (Scopus): 17