

Lect. PhD BERAT ÇINAR ACAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: IVV-2882-2023

ScopusID: 57201276146

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2012 - 2018

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2012

Dissertations

Doctorate, Endüstriyel Atık Sulardan Biyoremediasyon ile Kromun Detoksifikasyonu, Doğal ve Kimyasal/Biyolojik Yöntemlerle Modifiye Edilmiş Kil Üzerine Krom Adsorpsiyonunun Merkezi Kompozit Tasarım Yöntemi Kullanılarak İncelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2018

Postgraduate, Lactobacillus ve Bifidobacterium Cinsi Bakterilerin Beta-Glukozidaz Enzim Aktivitesi ve İzoflavon Hidrolizi, Gazi University, Fen Bilimleri Enstitüsü, 2012

Research Areas

Biotechnology, Environmental Biotechnology, Microbial Biotechnology, Microbiology, Bacteriology, Molecular Biology and Genetics, Microbial Genetics

Academic Titles / Tasks

Lecturer PhD, Gazi University, Fen Fakültesi, Biyoloji, 2021 - Continues

Courses

Ozon Uygulaması ve Plazma Teknolojisinin Biyoteknolojide Kullanımı, Undergraduate, 2023 - 2024

Mikrobiyal Taksonomi ve Filogeni, Undergraduate, 2024 - 2025

Bakteri Dünyası, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of Chromium (III) Adsorption on Acid-Treated Bentonite Evaluation of Kinetic/Thermodynamic Data**
Çınar Acar B., Yüksekdağ Z.
WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, no.234, pp.716-735, 2023 (SCI-Expanded)
- II. **Bioreduction of Cr(VI) by Raoultella ornithinolytica BCA13 Obtained from Tannery Effluent**
Çınar Acar B., Yüksekdağ Z.
WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, vol.234, no.270, pp.1-9, 2023 (SCI-Expanded)
- III. **beta-Glucosidase activity and bioconversion of isoflavone glycosides to aglycones by potential probiotic bacteria**
Yüksekdağ Z., Acar B., Aslım B., Tukenmez U.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, 2018 (SCI-Expanded)
- IV. **Probiotic properties of lactobacilli species isolated from children's feces**
Tulumoglu S., Yuksekdağ Z., Beyatlı Y., Şimşek Ö., Cınar B., Yasar E.
ANAEROBE, vol.24, pp.36-42, 2013 (SCI-Expanded)
- V. **Beta-glucosidase activities of Lactobacillus spp**
Cınar B., Yüksekdağ Z., Kilic Y.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- VI. **Cementation in a matrix of loose sandy soil using biological treatment method**
Gurbuz A., Sarı Y. D., Yuksekdağ Z., Cınar B.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.38, pp.7432-7440, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Yeşil Sentez Yoluyla Selenyum Nanopartikül (SeNP) Sentezi**
ÇINAR ACAR B., YÜKSEKDAĞ Z., ŞAHİN T., AÇAR E., KARA F.
Gazi Üniversitesi Fen Fakültesi Dergisi, vol.4, no.1, pp.32-50, 2023 (Peer-Reviewed Journal)
- II. **Deri Endüstrisinde Krom Kullanımı ve Biyolojik Yöntemlerle Krom Giderimi**
Çınar Acar B., Yüksekdağ Z.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.6, no.1, pp.1006-1029, 2023 (Peer-Reviewed Journal)
- III. **Beta-Glycosidase Activities of Lactobacillus spp. and Bifidobacterium spp. and The Effect of 2 Different Physiological Conditions on Enzyme Activity**
Çınar Acar B., Yüksekdağ Z.
Natural and Engineering Sciences, vol.8, no.1, pp.1-17, 2023 (Scopus)
- IV. **Determination of Anti-Biofilm and Anti-Microbial Activities of Biosurfactants Produced by Lactobacillus Genus Bacteria**
Efe F., Yüksekdağ Z., Çınar Acar B.
Gazi Üniversitesi Fen Fakültesi Dergisi, vol.3, no.2, pp.102-115, 2022 (Peer-Reviewed Journal)
- V. **Kimyasal Yöntemlerle Atık Sulardan Ağır Metal Giderimi**
ÇINAR ACAR B., ACAR M. B.
Gazi Üniversitesi Fen Fakültesi Dergisi, vol.3, no.1, pp.1-13, 2022 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Gıda Ürünlerinde Bozulmalara Neden Olan Patojen Mikroorganizmaların İnaktivasyonunda Ozon Uygulamalarının Etkisi**
ÇINAR ACAR B., ŞAHİN T., YÜKSEKDAĞ Z.

- in: Mikrobiyolojide Güncel Konular IV, Tuba DAL, Editor, Akademisyen Yayınevi Kitabevi, Ankara, pp.15-30, 2023
- II. **Soğuk Atmosferik Plazma (CAP) Sisteminin Kanser Tedavisi ve Yara İyileşmesinde Kullanımı**
ÇINAR ACAR B., YÜKSEKDAĞ Z.
in: Temel Tıp Bilimlerinde Güncel Çalışmalar 4, Dr. Öğr. Üyesi Toğrul NAĞIYEV, Dr. Ali ÜÇKAYABAŞI, Editor, İksad Yayınevi, Ankara, pp.113-148, 2023
- III. **Plazma Teknolojisi ve Biyoteknolojide Uygulama Alanları**
Çınar Acar B., Yüksekdağ Z.
in: Biyosistem Mühendisliği Akademik Çalışmaları I, Doç. Dr. Mehmet Fırat BARAN, Editor, İksad Yayınevi, Ankara, pp.155-199, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Application of Non-Thermal Plasma To Improve Food Safety and Evaluate its Bactericidal Effect on Pathogens**
Çınar Acar B., Yüksekdağ Z.
International Congress on Food, Agriculture and Environment Researches in Global World, New York, United States Of America, 1 - 03 June 2024, pp.121
- II. **Deneysel Tasarım Uygulanarak Yüksek Performanslı Sıvı Kromatografisi ile Hidrokortizon Miktar Tayini ve Geçerli Kılınması**
ÇETİN TARLA G., YALÇINKAYA Ö., ÇINAR ACAR B.
17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.99
- III. **Inactivation of Foodborne Pathogens by Cold Atmospheric Plasma**
Çınar Acar B., Yüksekdağ Z.
6th International Latin American Scientific Research Congress, Habana, Cuba, 1 - 03 February 2024, pp.25
- IV. **Removal of Cr (III) from synthetic solution using untreated perlite**
AMANZHOL A. K., YALÇINKAYA Ö., ÇINAR ACAR B., YÜKSEKDAĞ Z.
8TH INTERNATIONAL TOKYO CONFERENCE ON INNOVATIVE STUDIES OF CONTEMPORARY SCIENCES, Tokyo, Japan, 12 January 2024, pp.4
- V. **Investigation of the relationship between production of biofilm and exopolysaccharide of 37 Lactic Acid Bacteria**
Akman T., YÜKSEKDAĞ Z., KILIÇ T., ÇINAR ACAR B.
V. International Agricultural, Biological, Life Science Conference (AGBIOL), Edirne, Turkey, 18 September 2023
- VI. **Inactivation of Listeria monocytogenes ATCC 7644 and Salmonella enteritidis ATCC 13076 Strains by Ozone Gas Application**
ÇINAR ACAR B., YÜKSEKDAĞ Z.
V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 September 2023, pp.285
- VII. **Determination of Silver Nanoparticle Synthesis and Antimicrobial Activity from Postbiotic of Ligilactobacillus salivarius KC66L through Green Synthesis**
Akbaş E. M., Yüksekdağ Z., Çınar Acar B., Kara F.
V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 September 2023, pp.309
- VIII. **Determination of Ozone Gas Treated Fountain Water on The Development of Escherichia coli O157:H7 and Staphylococcus aureus ATCC 25923 Pathogens**
ŞAHİN T., ÇINAR ACAR B., YÜKSEKDAĞ Z.
V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 September 2023, pp.314
- IX. **Beta-Galactosidase Activities of 3 Ligilactobacillus salivarius Strains in Simulating Gastric and Intestinal Digestion**
Yüksekdağ H., Yüksekdağ Z., Çınar Acar B.
V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 September 2023, pp.379
- X. **BİYOLOJİK UYGULAMALARDA PLAZMA TEKNOLOJİSİNİN KULLANIMI**
Çınar Acar B.

III. Ulusal Tarım ve Gıda Çalıştayı, Çorum, Turkey, 3 - 05 May 2023

- XI. **Screening of Biofilm Formation in Chicken-Delivered Lactic Acid Bacteria**
Akman T., Yüksekdağ Z., Kılıç T., Çınar Acar B.
Karadeniz 12th International Conference on Social Sciences, Rize, Turkey, 03 March 2023, pp.14-15
- XII. **Yeşil Sentez Yoluyla Ligilactobacillus salivarius KC27L suşundan gümüş nanopartikül sentezi ve karakterizasyonu**
Kılıçkaya R., Yüksekdağ Z., Çınar Acar B., Kara F.
3. International Cappadocia Scientific Research Congress, Nevşehir, Turkey, 11 December 2022, pp.1735
- XIII. **Ligilactobacillus salivarius KC27L ve Limosilactobacillus reuteri KC21L Bakterilerinde Farklı Fiziksel Şartlarda EPS Üretimlerinin Belirlenmesi**
Karacif A. A., Çınar Acar B., Yüksekdağ Z.
Cukurova 9th International Scientific Researches Conference October 9-11, 2022 / Adana, TÜRKİYE, Adana, Turkey, 09 October 2022, pp.254
- XIV. **The Ability of The Prebiotic EPSJD2 and Postbiotic CFSJD2 of Pichia kudriavzeii JD2 to Ferment and Regulate The Growth of Lactiplantibacillus plantarum Subsp. plantarum DSM20246 and Saccharomyces cerevisiae BU19 and Their Comparison With Commercial Inulin**
Aakef J. N. A., Yüksekdağ Z., Çınar Acar B.
7th International New York Conference on Evolving Trends in Interdisciplinary Research & Practices, New York, United States Of America, 1 - 03 October 2022, pp.756
- XV. **Determination of Some Probiotic Properties of Enterococcus Strains Isolated from Raw Milk**
Yüksekdağ Z., Çınar Acar B., Yılmaz E. Ş.
International Capital Conference on Multidisciplinary Scientific Research, Lisbon, Portugal, 13 - 14 July 2022, pp.365
- XVI. **Determination of Vitality of Pichia kudriavzeii JD2 Yeast Strain in Artificial Stomach and Bile**
Aakef J. N. A., Yüksekdağ Z., Çınar Acar B.
1. ATLAS International Conference on Research in Applied Sciences, Barcelona, Spain, 9 - 10 July 2022, pp.169
- XVII. **Determination of Anticholesterol Activity and Hydrophobic Properties of Pichia kudriavzeii JD2 Yeast Strain**
Aakef J. N. A., Yüksekdağ Z., Çınar Acar B.
EJONS 14th International Conference on Mathematic, Engineering and Natural Sciences, Paris, France, 6 - 07 July 2022, pp.7
- XVIII. **Determination of Autoaggregation, Coaggregation and Hydrophobicity Abilities of Enterococcus durans 19, E. faecalis 52, and E. durans 77 Strains**
Yüksekdağ Z., Çınar Acar B., Yılmaz E. Ş.
2. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 17 - 19 June 2022, pp.367-368
- XIX. **Bioremediation and Thermodynamics/Kinetic Study of Cr(III) Adsorption onto Modified Clay by Using Composite Design Method.**
Çınar Acar B., Acar M. B.
V. International Leather Engineering Congress Innovative Aspects for Leather Industry., İzmir, Turkey, 10 October 2019
- XX. **Reduction of Hexavalent Chromium by Bacteria and Investigation of Chromium (III) Adsorption**
Çınar Acar B., Acar M. B., Yüksekdağ Z.
International Eurasian Conference on Biological and Chemical Sciences (Eurasian BioChem 2018), Ankara, Turkey, 26 April 2018
- XXI. **Investigation of Chromium (VI) Adsorption on Acid Treated Bentonite Using Central Composite Design**
Çınar Acar B., Yüksekdağ Z., Acar M. B., Çetinkaya B.
International Eurasian Conference on Biological and Chemical Sciences (Eurasian BioChem 2018), Ankara, Turkey, 26 April 2018, vol.2, pp.84-89
- XXII. **Enzyme Optimization and Partial Purification of Beta-Glycosidase Produced by Lactobacillus**

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Çınar Acar B., Yüksekdağ Z., Aslım B.

International Conference on Advances in Science, İstanbul, Turkey, 13 September 2017

XXIII. Stronsiyumun H₂SO₄ ve HCl ile Muamele Edilmiş Çankırı Bentoniti Üzerine Sorpsiyon Davranışlarının Deneysel Tasarım Yöntemi Kullanılarak İncelenmesi

Çınar Acar B., Acar M. B., Çetinkaya B., Tel H.

XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Aydın, Turkey, 12 October 2016

XXIV. Enzymatic optimization of beta glucosidase produced by Bifidobacterium breve A28 and Bifidobacterium longum BASO15 strains

Çınar Acar B., Yüksekdağ Z., Aslım B.

International Conference on Biological Sciences (ICBS), Konya, Turkey, 21 - 23 October 2016

XXV. Determination of beta glucosidase activities of 3 lactobacilli strains in simulating gastric and intestinal digestion

Yüksekdağ Z., Cinar Acar B.

4 th World Congress and Expo on Applied Microbiology, California, United States Of America, 19 - 21 September 2016

XXVI. Beta Glukozidaz Enziminin Optimizasyonu ve Kısmi Saflaştırması

Çınar Acar B., Yüksekdağ Z.

I. International Symposium on Tourism and Microbial Food Safety, Antalya, Turkey, 21 April 2016

XXVII. Beta-glycosidase enzyme activities of Lactobacillus and hydrolysis of isoflavone

Yüksekdağ Z., Çınar Acar B.

World Congress and Expo on Applied Microbiology, Frankfurt, Germany, 18 - 20 August 2015

XXVIII. Determination of beta-galactosidase enzyme activities of Lactobacillus strains

Kilic Y., Yuksekdağ Z., Cinar B.

Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.42

XXIX. Beta-Glucosidase Enzyme Activities of Some Lactobacillus spp.

Çınar Acar B., Yüksekdağ Z.

15th European Congress on Biotechnology of the European Federation of Biotechnology - ECB15, İstanbul, Turkey, 23 - 26 September 2012

XXX. Lactobacillus ve Bifidobacterium cinsi bakterilerde yapay mide suyu ve bağırsak sıvısında β-glukozidaz aktiviteleri.

Çınar Acar B., Yüksekdağ Z.

21. Ulusal biyoloji kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.376

Supported Projects

YÜKSEKDAĞ Z., AKBAŞ E. M., HASIRCI N., ÇINAR ACAR B., KARA F., Project Supported by Higher Education Institutions, Ligilactobacillus salivarius KC66L Suşunun Postbiyotiğinden Yeşil Sentez Yolu ile Gümüş Nanopartiküllerinin Sentezi Optimizasyonu ve Kendi Kendini İyileştiren Hidrojellere Antibakteriyel Özellik Kazandırılması, 2023 - Continues

Yalçınkaya Ö., Çınar Acar B., Yüksekdağ Z., Amanzhol A. K., Project Supported by Higher Education Institutions, Merkezi Kompozit Tasarım ile Maya İmmobilize Perlit Kullanarak Cr(III) Giderimi, 2024 - 2025

ÇINAR ACAR B., YÜKSEKDAĞ Z., Project Supported by Higher Education Institutions, Gıda Kaynaklı Patojen Mikroorganizmaların İnaktivasyonu İçin Yeni Bir Yöntem: Soğuk Atmosferik Plazma Uygulaması, 2023 - 2024

Çınar Acar B., Şahin T., Açar E., Tıprıdamaz E., TUBITAK Project, Beta-glukandan Selenyum Nanopartikül Sentezi, Karakterizasyonu ve Antibiyofilm Ajanı Olarak Kullanılabilirliğinin Araştırılması, 2023 - 2024

Çınar Acar B., Yüksekdağ Z., Bayburt A. A., Project Supported by Higher Education Institutions, Ligilactobacillus salivarius KC27L ve Limosilactobacillus reuteri KC21L Bakterilerinde Farklı Fiziksel Şartlarda EPS Üretimlerinin Belirlenmesi, 2022 - 2023

YÜKSEKDAĞ Z., ASLIM B., NİĞDELİOĞLU DOLANBAY S., GÜLDESTE B., ÇINAR ACAR B., Project Supported by Higher Education Institutions, Pichia kudriavzevii M16 Maya Hücre Duvarından Elde Edilen Beta Glukanın Biyolojik

Aktiviteilerinin Belirlenmesi, 2022 - 2023

Çınar Acar B., Yüksekdağ Z., Project Supported by Higher Education Institutions, Detoxification of Chromium Via Bioremediation with Industrial Wastewater, Investigation of Chromium Adsorption onto Natural And Chemical/Biological Modified Clay by Using Composite Design Method, 2015 - 2018

Yüksekdağ Z., Çınar Acar B., TÜBİTAK Project, Bioconversion of isoflavone glycosides to aglycones by potential probiotic bacteria, 2013 - 2014

Yüksekdağ Z., Kılıç Y., Çınar Acar B., Project Supported by Higher Education Institutions, 2012 - 2013

Yüksekdağ Z., Gürbüz A., Sarı Y. D., Çınar Acar B., Project Supported by Higher Education Institutions, An Improvement in Engineering Properties of Soils using Biological Method, 2011 - 2012

Yüksekdağ Z., Aslım B., Çınar Acar B., Project Supported by Higher Education Institutions, Determination of β -glucosidase enzyme activity of some lactic acid bacteria, 2011 - 2011

Scientific Refereeing

BMC MICROBIOLOGY, SCI Journal, November 2024

GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in SCI-E, November 2024

FOLIA MICROBIOLOGICA, SCI Journal, September 2024

WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, SCI Journal, September 2024

JOURNAL OF CLEANER PRODUCTION, SCI Journal, June 2024

JOURNAL OF CLEANER PRODUCTION, SCI Journal, May 2024

JOURNAL OF CLEANER PRODUCTION, SCI Journal, February 2024

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, November 2023

JOURNAL OF CLEANER PRODUCTION, SCI Journal, October 2023

ENVIRONMENTAL CHEMISTRY AND ECOTOXICOLOGY, Journal Indexed in ESCI, September 2023

JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, SCI Journal, August 2023

CHEMOSPHERE CHEMISTRY, BIOLOGY AND TOXICOLOGY AS RELATED TO ENVIRONMENTAL PROBLEMS, SCI Journal, August 2023

WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, SCI Journal, June 2023

INTERNATIONAL JOURNAL OF FOOD PROPERTIES, SCI Journal, May 2023

WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, SCI Journal, April 2023

FOOD BIOSCIENCE, SCI Journal, April 2023

INTERNATIONAL JOURNAL OF LIFE SCIENCES AND BIOTECHNOLOGY, National Scientific Refreed Journal, March 2023

GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, February 2023

GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, January 2023

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, National Scientific Refreed Journal, November 2022

WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, SCI Journal, November 2022

Metrics

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