Prof. ALEV BAYINDIRLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-6076-2020

ScopusID: 6601954584 Yoksis Researcher ID: 9943

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey 1985 - 1989

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey 1982 - 1985

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1978 - 1982

Dissertations

Doctorate, Kinetics of aspergillus oryzae cultivation on starch, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 1989

Postgraduate, Isolation and purification od red beet root pigment by ultrafiltration, Middle East Technical University, Faculty of Engineering, 1985

Research Areas

Fruits, Vegetables and Nuts, Food Processing (pasteurisation, sterilisation, refrigeration, lyophilisation, etc.), Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2003 - Continues

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2009 - 2016

Courses

ENZYME ENGINEERING, Postgraduate, 2017 - 2018
INTRODUCTION TO PROCESS PRINCIPLES, Undergraduate, 2018 - 2019
APPLIED KINETICS, Undergraduate, 2018 - 2019, 2017 - 2018
MATERIAL AND ENERGY BALANCES, Undergraduate, 2018 - 2019

Advising Theses

BAYINDIRLI A., Comparison of different antioxidant assays for estimation of antioxidant potential of selected fruit juice waste materials, Postgraduate, B.EGE(Student), 2022

BAYINDIRLI A., Determination of phenolic compound profiles and antioxidant effect of black elderberry, echinacea and iceland moss extracts on late-release soft lozenge, Postgraduate, Ö.YILDIZ(Student), 2021

MERT B., BAYINDIRLI A., Effect of different freezing rates on the texture and quality parameters of selected fruit and vegetable, Postgraduate, M.BULUT(Student), 2015

BAYINDIRLI A., MERT B., Production of micro and nano fibers from hazelnut skin and utilization in biscuits,

Postgraduate, E.YILDIZ(Student), 2014

BAYINDIRLI A., Inactivation mechanism of polyphenol oxidase during ultrasound treatment, Doctorate,

H.BALTACIOĞLU(Student), 2014

ALPAS H., BAYINDIRLI A., Inactivation of foodborne pathogens and enzymes by ultrasound under pressure at non-lethal and lethal temperatures in apple and orange juices, Doctorate, B.HÜLYA(Student), 2013

YILDIZ F., BAYINDIRLI A., Effects of edible chitosan coating on quality parameters of pomegranate (punica granatum) arils, Postgraduate, A.Can(Student), 2012

BAYINDIRLI A., MERT B., Application of high dynamic microfluidization to improve some quality parameters and stability of orange juice, Postgraduate, Ö.YÜCE(Student), 2011

BAYINDIRLI A., Effect of ultrasound on drying rate of selected produce, Doctorate, Y.KANTAŞ(Student), 2007

Yener M. E., Bayındırlı A., Pressurized Liquid Extraction of Phenolic Compounds from Fruit Pomaces, Doctorate, İ.Hasbay(Student), 2006

BAYINDIRLI A., ALPAS H., Evaluation of high pressure pretreatment for enhancing the drying rate of selected fruits and vegetables, Postgraduate, U.YÜCEL(Student), 2006

BAYINDIRLI A., ALPAS H., Effect of high hydrostatic pressure (HHP) on some quality parameters and shelf-life of fruit and vegetable, Postgraduate, S.DEDE(Student), 2005

BAYINDIRLI A., Inactivation of peroxidase and lipoxygenase in green beans, peas and carrots by a combination of high hydrostatic pressure and mild heat treatment, Postgraduate, Ç.Akyol(Student), 2004

BAYINDIRLI A., ALPAS H., Inactivation of proxidase and lipoxygenase in green beans, peas and carrots by a combination of high hydrostatic pressure and mild heat treatment, Postgraduate, Ç.AKYOL(Student), 2004

BAYINDIRLI A., Effect of controlled atmosphere storage, modified atmosphere packaging and gaseous ozone treatment on the survival characteristics of salmonella entertidis at cherry tomatoes, Postgraduate, E.DAŞ(Student), 2004

BAYINDIRLI A., Effect of hydrogen peroxide high hydrostatic pressure on Salmonella enteritidis in liquid whole egg, Postgraduate, G.IŞIKER(Student), 2002

BAYINDIRLI A., Effects of size and number of perforations on water vapor permeability of polyethylene film., Postgraduate, H.ÖZLEM(Student), 2002

BAYINDIRLI A., Manufacturing a new protective polyethylene based film containing zeolites for packaging of foods, Doctorate, S.NUR(Student), 2000

BAYINDIRLI A., Enzymatic peeling of stone fruits, Postgraduate, İ.Toker(Student), 2000

BAYINDIRLI A., The Effect of component interactions on the structural and functional properties of legume extrudates, Doctorate, H.DOĞAN(Student), 2000

BAYINDIRLI A., Control of enzymatic browning in apple juice from Amasya variety, Postgraduate, N.Fatma(Student), 2000

BAYINDIRLI A., Control of enzymatic browning in apple tuke from Amasya variety, Postgraduate, N.FATMA(Student),

2000

BAYINDIRLI A., Solute effects and optimization of water activity for the grawth of thermophilic fungi, Postgraduate, F.ATİK(Student), 2000

BAYINDIRLI A., Use of a new polymer based film for modified atmosphere packaging of fruits and vegetables,

Postgraduate, T.Türkeri(Student), 1999

BAYINDIRLI A., Use of a new polymer based film for modified atmosphere packaging of fruit and vegetables,

Postgraduate, T.TÜRKERİ (Student), 1999

BAYINDIRLI A., Control of enzymatic browning in apple juice with antibrowning agents and analysis by using response surface methodology, Postgraduate, H.ÖZOĞLU(Student), 1996

HAMAMCI H., BAYINDIRLI A., Effects of growth conditions and stress applications on the cell composition of bakers' yeast, Doctorate, N.Ertugay(Student), 1995

BAYINDIRLI A., HAMAMCI H., Effects of growth conditions and stress application on the cell composition of bakers yeast, Doctorate, N.ERTUGAY(Student), 1995

BAYINDIRLI A., Peroxidase and lipoxygenase inactivation and ascorbic acid retention during blanching of peas greenbeans and carrots, Postgraduate, B.GÜNEŞ(Student), 1992

Published journal articles indexed by SCI, SSCI, and AHCI

I. Effect of freezing rate and storage on the texture and quality parameters of strawberry and green bean frozen in home type freezer

Bulut M., Bayer Ö., Kırtıl E., Bayındırlı A.

INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.88, pp.360-369, 2018 (SCI-Expanded)

II. Secondary structure and conformational change of mushroom polyphenol oxidase during thermosonication treatment by using FTIR spectroscopy

Baltacıoğlu H., Bayındırlı A., Severcan F.

FOOD CHEMISTRY, vol.214, pp.507-514, 2017 (SCI-Expanded)

III. Effect of thermal treatment on secondary structure and conformational change of mushroom polyphenol oxidase (PPO) as food quality related enzyme: A FTIR study

Baltacioglu H., Bayındırlı A., Severcan M., Severcan F.

FOOD CHEMISTRY, vol.187, pp.263-269, 2015 (SCI-Expanded)

IV. Inactivation of Listeria monocytogenes and Escherichia coli by Ultrasonic Waves Under Pressure at Nonlethal (Manosonication) and Lethal Temperatures (Manothermosonication) in Acidic Fruit Juices GUZEL B. H., ARROYO C., CONDON S., PAGAN R., BAYINDIRLI A., ALPAS H.

FOOD AND BIOPROCESS TECHNOLOGY, vol.7, no.6, pp.1701-1712, 2014 (SCI-Expanded)

V. Preface

BAYINDIRLI A.

Enzymes in Fruit and Vegetable Processing: Chemistry and Engineering Applications, 2010 (SCI-Expanded)

VI. Evaluation of high pressure pretreatment for enhancing the drying rates of carrot, apple, and green bean

YÜCEL U., ALPAS H., BAYINDIRLI A.

JOURNAL OF FOOD ENGINEERING, vol.98, no.2, pp.266-272, 2010 (SCI-Expanded)

VII. Enzymes in Fruit and Vegetable Processing Chemistry and Engineering Applications Preface Bayindirli A.

ENZYMES IN FRUIT AND VEGETABLE PROCESSING: CHEMISTRY AND ENGINEERING APPLICATIONS, 2010 (SCI-Expanded)

VIII. Preface

BAYINDIRLI A.

Enzymes in Fruit and Vegetable Processing: Chemistry and Engineering Applications, 2010 (SCI-Expanded)

IX. Introduction to enzymes

Bayindirli A.

ENZYMES IN FRUIT AND VEGETABLE PROCESSING: CHEMISTRY AND ENGINEERING APPLICATIONS, pp.1-18, 2010 (SCI-Expanded)

X. EFFECT OF HIGH PRESSURE ON LACTOCOCCAL BACTERIOPHAGES

Avsaroglu M. D., Bozoglu F., Akcelik M., BAYINDIRLI A.

JOURNAL OF FOOD SAFETY, vol.29, no.1, pp.26-36, 2009 (SCI-Expanded)

XI. Extraction of total phenolics of sour cherry pomace by high pressure solvent and subcritical fluid and determination of the antioxidant activities of the extracts

ADİL I, H., YENER M. E., BAYINDIRLI A.

SEPARATION SCIENCE AND TECHNOLOGY, vol.43, no.5, pp.1091-1110, 2008 (SCI-Expanded)

XII. Subcritical (carbon dioxide plus ethanol) extraction of polyphenols from apple and peach pomaces, and determination of the antioxidant activities of the extracts

Adil I. H., Cetin H. I., Yener M. E., Bayindirli A.

JOURNAL OF SUPERCRITICAL FLUIDS, vol.43, no.1, pp.55-63, 2007 (SCI-Expanded)

XIII. High hydrostatic pressure treatment and storage of carrot and tomato juices: Antioxidant activity and microbial safety

DEDE S., Alpas H., Bayindirli A.

JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.87, no.5, pp.773-782, 2007 (SCI-Expanded)

XIV. Bubble and pore formation of the high-ratio cake formulation with polydextrose as a sugar- and fatreplacer

KOÇER D., HİCŞAŞMAZ Z., BAYINDIRLI A., KATNAŞ S.

JOURNAL OF FOOD ENGINEERING, vol.78, no.3, pp.953-964, 2007 (SCI-Expanded)

XV. Inactivation of peroxidase and lipoxygenase in carrots, green beans, and green peas by combination of high hydrostatic pressure and mild heat treatment

AKYOL C., Alpas H., Bayindirli A.

EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.224, no.2, pp.171-176, 2006 (SCI-Expanded)

XVI. Effect of controlled atmosphere storage modified atmosphere packaging and gaseous ozone treatment on the survival of Salmonella Enteritidis on cherry tomatoes

DAS E., GÜZİN CANDAN G. C., BAYINDIRLI A.

Food Microbiology, vol.23, pp.430-438, 2006 (SCI-Expanded)

XVII. Efficiency of high pressure treatment on inactivation of pathogenic microorganisms and enzymes in apple, orange, apricot and sour cherry juices

Bayindirli A., Alpas H., Bozoglu F., HİZAL M.

FOOD CONTROL, vol.17, no.1, pp.52-58, 2006 (SCI-Expanded)

XVIII. Lye peeling of 'Tombul' hazelnuts and effect of peeling on quality

KALEOGLU M., BAYINDIRLI L. A., Bayindirli A.

FOOD AND BIOPRODUCTS PROCESSING, vol.82, pp.201-206, 2004 (SCI-Expanded)

XIX. Modification of water vapour transfer rate of low density polyethylene films for food packaging Dirim S. N., Özden Ö., Bayındırlı A., Esin A.

JOURNAL OF FOOD ENGINEERING, vol.63, no.1, pp.9-13, 2004 (SCI-Expanded)

XX. Effect of L cysteine kojic acid and 4 hexylresorcinol combination on inhibition of enzymatic browning in Amasya apple juice

İYİDOĞAN N., BAYINDIRLI A.

Journal Of Food Engineering, vol.62, pp.299-304, 2004 (SCI-Expanded)

XXI. Combined effect of high hydrostatic pressure treatment and hydrogen peroxide on Salmonella Enteritidis in liquid whole egg

Isiker G., Gurakan G. C., Bayindirli A.

EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.217, no.3, pp.244-248, 2003 (SCI-Expanded)

XXII. Enzymatic peeling of apricots nectarines and peaches

TOKER I., BAYINDIRLI A.

Lwt-Food Science And Technology, vol.36, pp.215-221, 2003 (SCI-Expanded)

XXIII. Inhibition of enzymic browning in cloudy apple juice with selected antibrowning agents

Ozoglu H., Bayindirli A.

FOOD CONTROL, vol.13, pp.213-221, 2002 (SCI-Expanded)

XXIV. Inhibition of enzymatic browning in cloudy apple juice with selected antibrowning agents

BAYINDIRLI A., ÖZOĞLU H.

Food Control, vol.13, pp.213-221, 2002 (SCI-Expanded)

 $XXV. \quad In activation \ and \ injury \ of \ Escherichia \ coli \ O157: H7 \ and \ Staphylococcus \ aureus \ by \ pulsed \ electric$

fields

DAMAR S., Bozoglu F., Hizal M., Bayindirli A.

WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.18, no.1, pp.1-6, 2002 (SCI-Expanded)

XXVI. Stability of a recombinant plasmid carrying alpha-amylase gene in Bacillus subtilis

Gurakan G. C., Bayindirli A., Ogel Z., Tanboga P.

WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.14, no.2, pp.293-295, 1998 (SCI-Expanded)

XXVII. Fed-batch cultivation of bakers' yeast: Effect of nutrient depletion and heat stress on cell

composition

Ertugay N., Hamamci H., Bayindirli A.

FOLIA MICROBIOLOGICA, vol.42, no.3, pp.214-218, 1997 (SCI-Expanded)

XXVIII. NONENZYMATIC BROWNING IN CLARIFIED APPLE JUICE AT HIGH-TEMPERATURES - A RESPONSE-

SURFACE ANALYSIS

BAYINDIRLI A., KHALAFI S., YENICERI A.

JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.19, no.3, pp.223-227, 1995 (SCI-Expanded)

XXIX. PEROXIDASE AND LIPOXYGENASE INACTIVATION DURING BLANCHING OF GREEN BEANS GREEN

PEAS AND CARROTS

GÜNEŞ B., BAYINDIRLI A.

Lwt-Food Science And Technology, vol.26, pp.406-410, 1993 (SCI-Expanded)

XXX. Kinetic analysis of aspergillus oryzae cultivations on starch

BAYINDIRLI A., OZILGEN M., UNGAN S.

Biocatalysis and Biotransformation, vol.5, no.1, pp.71-78, 1991 (SCI-Expanded)

XXXI. MODELING OF SEQUENTIAL BATCH ULTRAFILTRATION OF RED BEET EXTRACT

BAYINDIRLI A., YILDIZ F., OZILGEN M.

JOURNAL OF FOOD SCIENCE, vol.53, no.5, pp.1418-1422, 1988 (SCI-Expanded)

Articles Published in Other Journals

I. A new protective polyethylene based film containing zeolites for the packaging of fruits and vegetables: Film preparation

Dirim S. N., Esin A., BAYINDIRLI A.

Turkish Journal of Engineering and Environmental Sciences, vol.27, no.1, pp.1-9, 2003 (Scopus)

Books & Book Chapters

I. Enzymes in Fruit and Vegetable Processing: Chemistry and Engineering Applications

Bayındırlı A. (Editor)

CRC, New York, New-York, 2010

Supported Projects

BAYINDIRLI A., COLAK M., Project Supported by Higher Education Institutions, Muz Kabuğundan Biyoaktif Bileşiklerin

Yüksek Basınç ve Ultrason Destekli Ekstraksiyonu, 2020 - 2023

BAYINDIRLI A., GÜLENÇ B. E., Project Supported by Higher Education Institutions, Seçilmiş Meyve Suyu Atıklarının Antioksidan Potansiyelinin Belirlenmesi için Farklı Antioksidan Analizlerinin Karşılaştırılması, 2021 - 2022 BAYINDIRLI A., KARADEMİR Y., Project Supported by Higher Education Institutions, FARKLI FORMÜLASTON VE METOTLAR KULLANILARAK GELİŞTİRİLEN LİPOZOM SİSTEMLERİNİN KARAKTERİZASYONU, 2018 - 2019 BAYINDIRLI A., ÖZTOP H. M., Deniz H., Bulut M., ÖKMEN Z. A., Project Supported by Higher Education Institutions, SEÇİLMİŞ MEYVE VE SEBZE ÖRNEKLERİNDE DONDURUCU DONDURMA HIZININ VE FARKLI SICAKLIKLARDA MUHAFAZANIN ÜRÜN KALİTESİNE ETKİSİ, 2014 - 2015

BAYINDIRLI A., SÖYLER U. B., ÖKMEN Z. A., Project Supported by Higher Education Institutions, Çay üretim alanlarından toplanan örneklerde fenolik asit profilinin elde edilmesi, 2013 - 2013

Bayındırlı A., Baltacıoğlu H., TUBITAK Project, Polifenol Oksidaz Enziminin Isı-Ultrason Kombinasyonu ile Inaktivasyonu Sırasında Enzimin Yapısında Meydana Gelen Değişimin Fourier Değişim Kızıl Ötesi (FTIR) Spektroskopisi ile Incelenmesi, 2012 - 2013

Yener M. E., Bayındırlı A., Project Supported by Higher Education Institutions, Biyoaktif Maddelerin Yüksek Basınç Sıvı Ekstraksiyonu ile Elde Edilmesi, 2003 - 2004

Metrics

Publication: 33

Citation (WoS): 1349 Citation (Scopus): 1500 H-Index (WoS): 18 H-Index (Scopus): 18

Non Academic Experience

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