

## Prof. DENİZ ÇEKMECELİOĞLU

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### International Researcher IDs

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ScopusID: 8257317300

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### Education Information

Doctorate, Pennsylvania State University, United States Of America 2001 - 2004

Postgraduate, Gaziantep University, Faculty Of Engineering, Gıda Mühendisliği Bölümü (İngilizce), Turkey 1998 - 2001

Undergraduate, Gaziantep University, Faculty Of Engineering, Gıda Mühendisliği Bölümü (İngilizce), Turkey 1993 - 1998

### Dissertations

Doctorate, Fate of Pathogenic Microorganisms in Food Waste Composting, Pennsylvania State University, 2004

Postgraduate, Investigation of storage stability of phenolic compounds in muscat type of Argentina red grapes, Gaziantep Üniversitesi, Gıda Mühendisliği Bölümü (İngilizce), 2001

### Research Areas

Food Engineering, Food Technology, Food Biotechnology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2020 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2014 - 2020

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2005 - 2014

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2004 - 2005

### Advising Theses

ÇEKMECELİOĞLU D., Monitoring and modelling of moisture content with nuclear magnetic resonance (NMR),

Postgraduate, B.SELÇUK(Student), 2022

ÇEKMECELİOĞLU D., Immobilization of Actinobacillus succinogenes by using alginate for succinic acid production from dairy wastes, Postgraduate, U.UYSAL(Student), 2022

ÇEKMECELİOĞLU D., Formulation of food processing wastes for co-production of bacterial pectinase and cellulase enzymes, Postgraduate, M.ÖZZEYBEK(Student), 2022

ÇEKMECELİOĞLU D., Production of lactic acid by simultaneous saccharification and fermentation of horse chestnut shell by using Lactobacillus casei, Postgraduate, Z.BAŞAK(Student), 2022

ÇEKMECELİOĞLU D., Production and high hydrostatic pressure assisted extraction of microbial oil from lipomyces starkeyi and rhodosporidium toruloides, Postgraduate, A.TUHANİOĞLU(Student), 2021

ÇEKMECELİOĞLU D., Evaluation and optimization of microbial oil production using synthetic sugars, Postgraduate, N.Gürel(Student), 2019

ÇEKMECELİOĞLU D., Bacterial cellulase production using grape pomace hydrolysate and synthetic sugar as sole carbon sources by shake-flask submerged fermentation, Postgraduate, A.Sultan(Student), 2019

ÇEKMECELİOĞLU D., SON Ç. D., Pectinase production using apple pomace as carbon source by mixed culture fermentation, Postgraduate, C.KUVVET(Student), 2016

ÇEKMECELİOĞLU D., Energy balance and biodegradability assessments for food waste composting under various C:N ratios and air flow rates, Postgraduate, F.GÖKBEL(Student), 2015

ÇEKMECELİOĞLU D., Microbial detoxification of groundnut meal naturally contaminated with aflatoxin using Rhodococcus erythropolis, Postgraduate, Ö.BURAK(Student), 2015

ÇEKMECELİOĞLU D., Microbial production of alkaline pectinase from hazelnut shell, Doctorate, S.UZUNER(Student), 2014

ÇEKMECELİOĞLU D., Xylanase production by mixed culture submerged fermentation, Postgraduate, G.ÖREN(Student), 2014

ÇEKMECELİOĞLU D., Hemicellulose coating as a substitute of sulfuring for apricot drying, Postgraduate, A.ÜBEYİTOĞULLARI(Student), 2014

ÇEKMECELİOĞLU D., Finite element modelling and simulation of drying isotropic and anisotropic food samples, Doctorate, M.SOYDAN(Student), 2013

ÇEKMECELİOĞLU D., Hemicellulose extraction from agro-food industrial wastes and its application in foods, Postgraduate, H.YILMAZ(Student), 2012

ÇEKMECELİOĞLU D., Hemicellulose Extraction From Agro-Food Industrial Wastes and Its Application in Foods, Postgraduate, H.Yılmaz(Student), 2012

ÇEKMECELİOĞLU D., Optimization of bioethanol production from kitchen waste, Postgraduate, O.NİHAN(Student), 2009

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

- I. **Formulation of apple pomace, orange peel, and hazelnut shell mix for co-production of bacterial pectinase and cellulase enzymes by mixture design method**  
Ozzeybek M., ÇEKMECELİOĞLU D.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.2, pp.1853-1861, 2024 (SCI-Expanded)
- II. **Bacterial cellulase production using grape pomace hydrolysate by shake-flask submerged fermentation**  
Kurt A. S., ÇEKMECELİOĞLU D.  
Biomass Conversion and Biorefinery, vol.13, no.8, pp.6981-6988, 2023 (SCI-Expanded)
- III. **Monitoring and modelling of moisture content with nuclear magnetic resonance (NMR)**  
Selçuk B., ÖZTOP H. M., ÇEKMECELİOĞLU D.  
International Journal of Food Engineering, vol.19, no.6, pp.279-288, 2023 (SCI-Expanded)
- IV. **Comparison of common carbon sources with unhydrolyzed, dilute acid and steam hydrolyzed distillers' dried grains with solubles for lignocellulolytic enzyme productions by fungal strains**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
Fuel, vol.340, 2023 (SCI-Expanded)

- V. **Valorization of Apple Pomace Via Single Cell Oil Production Using Oleaginous Yeast *Rhodospiridium toruloides***  
Tuhanioglu A., Hamamci H., Alpas H., Çekmecelioğlu D.  
Waste and Biomass Valorization, vol.14, no.3, pp.765-779, 2023 (SCI-Expanded)
- VI. **Integrating 1G with 2G Bioethanol Production by Using Distillers' Dried Grains with Solubles (DDGS) as the Feedstock for Lignocellulolytic Enzyme Production**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
Fermentation, vol.8, no.12, 2022 (SCI-Expanded)
- VII. **High hydrostatic pressure-assisted extraction of lipids from *Lipomyces starkeyi* biomass**  
Tuhanioglu A., ALPAS H., ÇEKMECELİOĞLU D.  
JOURNAL OF FOOD SCIENCE, vol.87, no.11, pp.5029-5041, 2022 (SCI-Expanded)
- VIII. **Salt and nitrogen amendment and optimization for cellulase and xylanase production using dilute acid hydrolysate of distillers' dried grains with solubles (DDGS) as the feedstock**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.45, no.3, pp.527-540, 2022 (SCI-Expanded)
- IX. **Screening of bacterial and fungal strains for cellulase and xylanase production using distillers' dried grains with solubles (DDGS) as the main feedstock**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
BIOMASS CONVERSION AND BIOREFINERY, vol.11, no.5, pp.1955-1964, 2021 (SCI-Expanded)
- X. **Ideal Feedstock and Fermentation Process Improvements for the Production of Lignocellulolytic Enzymes**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
PROCESSES, vol.9, no.1, pp.1-26, 2021 (SCI-Expanded)
- XI. **Biochemical characterization and stability of *Bacillus subtilis* polygalacturonase produced using hazelnut shells by submerged fermentation**  
UZUNER S., ÇEKMECELİOĞLU D.  
BIOCATALYSIS AND BIOTRANSFORMATION, vol.39, no.4, pp.269-274, 2021 (SCI-Expanded)
- XII. **Production of Cellulase and Xylanase Enzymes Using Distillers Dried Grains with Solubles (DDGS) by *Trichoderma reesei* Shake-Flask Scale and the Validation in the Benchtop Scale Bioreactor**  
Cekmecelioglu D., Demirci A.  
WASTE AND BIOMASS VALORIZATION, vol.11, pp.6575-6584, 2020 (SCI-Expanded)
- XIII. **Distillers' dried grains with solubles (DDGS) and its potential as fermentation feedstock**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.104, no.14, pp.6115-6128, 2020 (SCI-Expanded)
- XIV. **A Statistical Optimization Study on Dilute Sulfuric Acid Pretreatment of Distillers Dried Grains with Solubles (DDGS) As a Potential Feedstock for Fermentation Applications**  
ÇEKMECELİOĞLU D., Demirci A.  
WASTE AND BIOMASS VALORIZATION, vol.10, no.11, pp.3243-3249, 2019 (SCI-Expanded)
- XV. **Optimization of dilute sulfuric acid, aqueous ammonia, and steam explosion as the pretreatments steps for distillers' dried grains with solubles as a potential fermentation feedstock**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
BIORESOURCE TECHNOLOGY, vol.282, pp.475-481, 2019 (SCI-Expanded)
- XVI. **Improvement of Pectinase Production by Co-culture of *Bacillus* spp. Using Apple Pomace as a Carbon Source**  
Kuvvet C., UZUNER S., ÇEKMECELİOĞLU D.  
WASTE AND BIOMASS VALORIZATION, vol.10, no.5, pp.1241-1249, 2019 (SCI-Expanded)
- XVII. **Heterotrophic growth and oil production from *Micractinium* sp. ME05 using molasses**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
JOURNAL OF APPLIED PHYCOLOGY, vol.30, no.6, pp.3483-3492, 2018 (SCI-Expanded)
- XVIII. **Assessment and optimization of xylanase production using co-cultures of *Bacillus subtilis* and *Kluyveromyces marxianus***

Yardimci G. O., ÇEKMECELİOĞLU D.

3 BIOTECH, vol.8, no.7, 2018 (SCI-Expanded)

- XIX. **Enhancement of Heterotrophic Biomass Production by Micractinium sp ME05**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
WASTE AND BIOMASS VALORIZATION, vol.9, no.5, pp.811-820, 2018 (SCI-Expanded)
- XX. **Evaluation of heterotrophic and mixotrophic cultivation of novel Micractinium sp ME05 on vinasse and its scale up for biodiesel production**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
BIORESOURCE TECHNOLOGY, vol.251, pp.128-134, 2018 (SCI-Expanded)
- XXI. **Detoxification of Groundnut Cake Naturally Contaminated with Aflatoxin B-1 Using Rhodococcus erythropolis in Shake Flask Bioreactors**  
Dogan Ö. B., ÖNAL ULUSOY B., Bozoglu F., Sagdicoglu-Celep A. G., ÇEKMECELİOĞLU D.  
WASTE AND BIOMASS VALORIZATION, vol.8, no.3, pp.721-731, 2017 (SCI-Expanded)
- XXII. **Bioconversion of Alkali Pretreated Hazelnut Shells to Fermentable Sugars for Generation of High Value Products**  
Uzuner S., Shivappa R. R. S., ÇEKMECELİOĞLU D.  
WASTE AND BIOMASS VALORIZATION, vol.8, no.2, pp.407-416, 2017 (SCI-Expanded)
- XXIII. **OPTIMIZATION OF HEMICELLULOSE COATING AS APPLIED TO APRICOT DRYING AND COMPARISON WITH CHITOSAN COATING AND SULFITE TREATMENT**  
Ubeyitogullari A., ÇEKMECELİOĞLU D.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.39, no.6, pp.542-552, 2016 (SCI-Expanded)
- XXIV. **Comparison of Artificial Neural Networks (ANN) and Adaptive Neuro-Fuzzy Inference System (ANFIS) Models in Simulating Polygalacturonase Production**  
UZUNER S., ÇEKMECELİOĞLU D.  
BIORESOURCES, vol.11, no.4, pp.8676-8685, 2016 (SCI-Expanded)
- XXV. **Optimising clarification of carrot juice by bacterial crude pectinase**  
Uzuner S., ÇEKMECELİOĞLU D.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.50, no.12, pp.2707-2712, 2015 (SCI-Expanded)
- XXVI. **Enhanced pectinase production by optimizing fermentation conditions of Bacillus subtilis growing on hazelnut shell hydrolyzate**  
Uzuner S., ÇEKMECELİOĞLU D.  
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.113, pp.62-67, 2015 (SCI-Expanded)
- XXVII. **Complete dissipation of 2,4,6-trinitrotoluene by in-vessel composting**  
Gumuscu B., ÇEKMECELİOĞLU D., TEKİNAY T.  
RSC ADVANCES, vol.5, no.64, pp.51812-51819, 2015 (SCI-Expanded)
- XXVIII. **Hydrolysis of Hazelnut Shells as a Carbon Source for Bioprocessing Applications and Fermentation**  
Uzuner S., ÇEKMECELİOĞLU D.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, vol.10, no.4, pp.799-808, 2014 (SCI-Expanded)
- XXIX. **Drying Behavior of Meat Samples at Various Fiber Directions and Air Conditions**  
Karabacak M. S., Esin A., ÇEKMECELİOĞLU D.  
DRYING TECHNOLOGY, vol.32, no.6, pp.695-707, 2014 (SCI-Expanded)
- XXX. **Evaluation of hemicellulose as a coating material with gum arabic for food microencapsulation**  
Tatar F., Tunc M. T., DERVİŞOĞLU M., ÇEKMECELİOĞLU D., KAHYAOĞLU T.  
FOOD RESEARCH INTERNATIONAL, vol.57, pp.168-175, 2014 (SCI-Expanded)
- XXXI. **Kinetic modeling of enzymatic hydrolysis of pretreated kitchen wastes for enhancing bioethanol production**  
ÇEKMECELİOĞLU D., Uncu O. N.  
WASTE MANAGEMENT, vol.33, no.3, pp.735-739, 2013 (SCI-Expanded)
- XXXII. **Effect of extraction conditions on hemicellulose yields and optimisation for industrial processes**  
Celebioglu H. Y., ÇEKMECELİOĞLU D., DERVİŞOĞLU M., KAHYAOĞLU T.

- INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.47, no.12, pp.2597-2605, 2012 (SCI-Expanded)
- XXXIII. **Optimization of culture conditions for *Aspergillus sojae* expressing an *Aspergillus fumigatus* alpha-galactosidase**  
 Gurkok S., ÇEKMECELİOĞLU D., Ogel Z. B.  
 BIORESOURCE TECHNOLOGY, vol.102, no.7, pp.4925-4929, 2011 (SCI-Expanded)
- XXXIV. **Cost-effective approach to ethanol production and optimization by response surface methodology**  
 Uncu O. N., ÇEKMECELİOĞLU D.  
 WASTE MANAGEMENT, vol.31, no.4, pp.636-643, 2011 (SCI-Expanded)
- XXXV. **Optimal conditions for enhanced beta-mannanase production by recombinant *Aspergillus sojae***  
 Ozturk B., ÇEKMECELİOĞLU D., Ogel Z. B.  
 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.64, pp.135-139, 2010 (SCI-Expanded)
- XXXVI. **Optimization of windrow food waste composting to inactivate pathogenic microorganisms**  
 Cekmecelioglu D., Demirci A., Graves R., Davitt N.  
 TRANSACTIONS OF THE ASAE, vol.48, no.5, pp.2023-2032, 2005 (SCI-Expanded)
- XXXVII. **Applicability of optimised in-vessel food waste composting for windrow systems**  
 Cekmecelioglu D., Demirci A., Graves R., Davitt N.  
 BIOSYSTEMS ENGINEERING, vol.91, no.4, pp.479-486, 2005 (SCI-Expanded)
- XXXVIII. **Feedstock optimization of in-vessel food waste composting systems for inactivation of pathogenic microorganisms**  
 Cekmecelioglu D., Demirci A., Graves R.  
 JOURNAL OF FOOD PROTECTION, vol.68, no.3, pp.589-596, 2005 (SCI-Expanded)
- XXXIX. **Modeling of composttemperature and inactivation of *Salmonella* and *E-coli* O157 : H7 during windrow food waste composting**  
 Cekmecelioglu D., Heinemann P., Demirci A., Graves R.  
 TRANSACTIONS OF THE ASAE, vol.48, no.2, pp.849-858, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Effects of Dilution, Aeration, and Agitation on Fungal Cellulase and Xylanase Production in the Fermentation Media Based on Distillers Dried Grains with Solubles Using Stirred Tank Bioreactors**  
 Iram A., ÇEKMECELİOĞLU D., Demirci A.  
 Industrial Biotechnology, vol.19, no.4, pp.229-236, 2023 (ESCI)
- II. **Optimization of the fermentation parameters to maximize the production of cellulases and xylanases using DDGS as the main feedstock in stirred tank bioreactors**  
 Iram A., ÇEKMECELİOĞLU D., Demirci A.  
 Biocatalysis and Agricultural Biotechnology, vol.45, 2022 (ESCI)
- III. **A novel oxidative destruction of lignin and enzymatic digestibility of hazelnut shells**  
 Uzuner S., Sharma-Shivappa R. R., ÇEKMECELİOĞLU D., Kolar P.  
 BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol.13, pp.110-115, 2018 (ESCI)
- IV. **GIDA ATIKLARININ PEKTİNAZ ENZİMİ ÜRETİMİNDE KULLANIMI**  
 UZUNER S., ÇEKMECELİOĞLU D.  
 GIDA / THE JOURNAL OF FOOD, 2016 (Peer-Reviewed Journal)
- V. **Retention of physical quality of bananas by hemicellulose coating**  
 Yilmaz Celebioglu H., ÇEKMECELİOĞLU D.  
 GIDA, vol.38, pp.335-342, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Design and simulation of heat exchangers for the food industry**  
Tonyalı Karşı G., Çekmecelioğlu D.  
in: Thermal Processing of Food Products by Steam and Hot Water: Unit Operations and Processing Equipment in the Food Industry, Seid Jafari, Editor, Elsevier Science, Oxford/Amsterdam , Massachusetts, pp.67-108, 2023
- II. **Extremophilic carbohydrases: production, application, and challenges in association with food processing**  
Uzuner S., Çekmecelioğlu D.  
in: Value-addition in Food Products and Processing Through Enzyme Technology, Mohammed Kuddus and Cristobal Aguilar, Editor, Elsevier Science, Oxford/Amsterdam , California, pp.163-174, 2022
- III. **Convective heat transfer in food process engineering**  
ÇEKMECELİOĞLU D.  
in: Engineering Principles of Unit Operations in Food Processing, Seid Mahdi Jafari, Editor, Elsevier, pp.315-344, 2021
- IV. **Gıda ve tarım yan ürünlerinden yenilenebilir enerji üretimi**  
UZUNER S., ÇEKMECELİOĞLU D.  
in: Gıda Biyoteknolojisi, Ögel Zümrüt Begüm, Editor, Türkiye Klinikleri, pp.9-16, 2021
- V. **Enzymes in the Beverage Industry**  
Uzuner S., Çekmecelioğlu D.  
in: Enzymes in Food Biotechnology: Production, Applications, and Future Prospects, Mohammed Kuddus, Editor, AP, London , London, pp.29-40, 2019
- VI. **Bioreactor Scale Up**  
Mahdinia E., Çekmecelioğlu D., Demirci A.  
in: Essentials in Fermentation Technology, Aydin Berenjian, Editor, Springer, London/Berlin , Zug, pp.213-236, 2019

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Optimization of the fermentation parameters to maximize the production of cellulases and xylanases using DDGS as the main feedstock in stirred tank bioreactors**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
2022 ASABE Annual International Meeting, Texas, United States Of America, 17 - 20 July 2022
- II. **The effect of Dilution, Aeration, and Agitation on Fungal Cellulase and Xylanase Production by DDGS-based Fermentation Media in Stirred Tank Bioreactors**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
2022 ASABE Annual International Meeting, Texas, United States Of America, 17 - 20 July 2022
- III. **Drying rates based on variable diffusion coefficient**  
Selçuk B., ÖZTOP H. M., ÇEKMECELİOĞLU D.  
2nd International / 12th National Food Engineering Congress, Turkey, 25 November 2021, pp.109-114
- IV. **Green production of bacterial polygalacturonase enzyme using apple pomace to minimize waste disposal**  
Özışık B., ÇEKMECELİOĞLU D.  
2nd International / 12th National Food Engineering Congress, Turkey, 25 November 2021, pp.122-128
- V. **Optimization of nitrogen sources for the maximum production of cellulases and xylanases by Aspergillus Niger strains**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.  
2021 American Society of Agricultural and Biological Engineers Annual International Meeting, ASABE 2021, Virtual, Online, 12 - 16 July 2021, vol.2, pp.921-930
- VI. **Mineral and nitrogen source amendment for the cellulase and xylanase production by different fungal strains using DDGS as the feedstock**  
Iram A., ÇEKMECELİOĞLU D., Demirci A.

2021 American Society of Agricultural and Biological Engineers Annual International Meeting, ASABE 2021, Virtual, Online, 12 - 16 July 2021, vol.2, pp.938-944

- VII. **Biochemical Characterization and Stability of *B. subtilis* Pectinase Produced using Hazelnut Shells by Submerged Fermentation**  
Uzuner S., Çekmecelioğlu D.  
II. International Enzyme & Bioprocesses Days, 1 - 03 September 2020, pp.52
- VIII. **Bacterial and fungal strain selections for cellulase and xylanase production using distillers' dried grains with solubles (DDGS)**  
Iram A., Çekmecelioğlu D., Demirci A.  
2020 ASABE Annual International Meeting, Virtual, Online, 13 - 15 July 2020
- IX. **Bacterial cellulase production using grape pomace hydrolysate as a carbon source**  
Kurt A. S., ÇEKMECELİOĞLU D.  
1st International/11th National Food Engineering Congress, 7 - 09 November 2019
- X. **Comparative study of microbial oil production using *Lipomyces starkeyi* and *Rhodospiridium toruloides* yeasts**  
Gürel N., ÇEKMECELİOĞLU D.  
1st International/11th National Food Engineering Congress, 7 - 09 November 2019, pp.90
- XI. **Fed batch production of polygalacturonase and pectin lyase enzymes using apple pomace as feedstock**  
ÇEKMECELİOĞLU D., Güneruz A.  
1st International/11th National Food Engineering Congress, 7 - 09 November 2019
- XII. **Farklı Sentetik Şeker Bileşiminde Mikrobiyal Yağ Üretimi**  
Gürel N., ÇEKMECELİOĞLU D.  
YABİTED IV. Bitkisel Yağ Kongresi, Turkey, 18 - 19 April 2019, pp.32
- XIII. **Evaluating fungal co-production of cellulase and xylanase enzymes at shake-flask scale using distillers dried grain with solubles (DDGS) and its validation in benchtop fermenters**  
ÇEKMECELİOĞLU D., Demirci A.  
Conference of Food Engineering, 10 - 12 September 2018, pp.173
- XIV. **The evaluation of acid pretreatment of DDGS as a carbon source for microbial fermentation**  
Iram A., Demirci A., ÇEKMECELİOĞLU D.  
Northeast Agricultural and Biological Engineering Conference, 15 - 18 July 2018
- XV. **Co-production of pectinase, xylanase and cellulase complex using *Bacillus subtilis* grown on food processing wastes**  
ÇEKMECELİOĞLU D., DOĞAN Ö. B.  
EurAsia 2018 Waste Management Symposium, 2 - 04 May 2018
- XVI. **Melas Kullanılarak Yerel *Micractinium* sp. ME05 Suşunun Büyütülmesi ve Yağ Üretimi**  
Köse Engin I., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Turkey, 1 - 03 December 2017
- XVII. **Yerel *Micractinium* sp. ME05 Suşunun Şilempe Kullanılarak Büyütülmesi ve Biyodizel Üretimi**  
Köse Engin I., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Turkey, 1 - 03 December 2017
- XVIII. **Evaluating fungal co-production of cellulase and xylanase enzymes at shake-flask scale using distillers dried grains with solubles (DDGS) and its validation in benchtop fermenters**  
Çekmecelioğlu D., Demirci A.  
ASABE 2018 Annual International Meeting, Michigan, United States Of America, 29 July - 01 August 2018
- XIX. **Feasibility of DDGS for Production of Cellulase and Xylanase Enzymes Cocktail**  
Demirci A., ÇEKMECELİOĞLU D.  
Northeast Agriculture and Biological Engineering Conference, 30 July - 02 August 2017
- XX. **A comparison study of ozonolysis for conversion of hazelnut shells and corn stover to fermentable sugars**  
UZUNER S., Sharma Shivappa R. R., ÇEKMECELİOĞLU D.

3rd International conference on Food and Biosystems Engineering, 1 - 04 June 2017

- XXI. **Optimization of growth and aflatoxin B1 detoxification conditions of *Rhodococcus erythropolis* in naturally contaminated groundnut meal**

DOĞAN Ö. B., ÖNAL ULUSOY B., BOZOĞLU T. F., SAĞDIÇOĞLU CELEP A. G., ÇEKMECELİOĞLU D.

VII th International Bioengineering Congress, 19 - 21 November 2015

- XXII. **Evaluation of fermentation medium composition and conditions for bacterial pectinase production**  
UZUNER S., ÇEKMECELİOĞLU D.

VII th International Bioengineering Congress, 19 - 21 November 2015

- XXIII. **A rapid screening approach to factors affecting dilute acid hydrolysis of hazelnut shells**

UZUNER S., ÇEKMECELİOĞLU D.

4th International Conference on Food Engineering and Biotechnology, 19 - 20 May 2013, vol.50, pp.30-33

## Supported Projects

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Yerfıstığı Küspesindeki Aflatoxin B1 Toksininin Fermantasyon Yöntemiyle Parçalanması, 2014 - Continues

ÇEKMECELİOĞLU D., TUHANOĞLU A., Project Supported by Higher Education Institutions, LIPOMYCES STARKEYİ VE RHODOSPORIDIUM TORULOIDES MAYALARINDAN MİKROBİYAL YAĞLARIN ÜRETİMİ VE YÜKSEK HİDROSTATİK BASINÇ DESTEKLİ ÖZÜTLENMESİ, 2021 - 2022

ÇEKMECELİOĞLU D., TUHANOĞLU A., Project Supported by Higher Education Institutions, Rhodosporidium toruloides Mayası ile Ölçek Büyütürerek Mikrobiyal Yağ Üretimi, 2020 - 2021

ÇEKMECELİOĞLU D., GÜREL N., Project Supported by Higher Education Institutions, MİKROBİYAL YAĞ ÜRETİMİNİN GIDA ENDÜSTRİSİ İÇİN DEĞERLENDİRİLMESİ, 2018 - 2019

ÇEKMECELİOĞLU D., GÜNERUZ A., Project Supported by Higher Education Institutions, KESİKLİ VE YARI-KESİKLİ YÖNTEMLERLE GIDA ATIKLARI KULLANARAK PEKTİNAZ ENZİMİ ÜRETİMİ, 2018 - 2019

ÇEKMECELİOĞLU D., ÖREN YARDIMCI G., Project Supported by Higher Education Institutions, GIDA ATIKLARINDAN BİYO-İŞLEMLERLE KATMA DEĞERLİ ÜRÜNLER ÜRETİMİ, 2018 - 2019

ÇEKMECELİOĞLU D., SULTAN KURT A., Project Supported by Higher Education Institutions, ÜZÜM POSASININ GIDA PROSESİNDE KULLANILMAK ÜZERE DEĞERLENDİRİLMESİ, 2018 - 2019

ÇEKMECELİOĞLU D., ÖREN YARDIMCI G., GÜREL N., GÜNERUZ A., Project Supported by Higher Education Institutions, Gıda Endüstrisi Atıklarının Katma-Değeri Yüksek Çoklu-Ürünlerin Üretiminde Kullanımı: Poligalakturonaz ve Pektin Liyaz Enzimleri ile Mikrobiyal Yağ Üretimi, 2018 - 2019

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Fındık Kabuğunun Reaktör Ortamında Enzimatik Hidrolizi, 2015 - 2015

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇEKMECELİOĞLU D., Übeyitoğulları A., Project Supported by Higher Education Institutions, Kayısı Kurutmada Kükürtleme Yerine Hemiselüloz Kaplamasının Kullanılması, 2013 - 2014

ÇEKMECELİOĞLU D., ÜBEYİTOĞULLARI A., Project Supported by Higher Education Institutions, KAYISI KURUTMADA KÜKÜRTLEME YERİNE HEMİSELÜLOZ KAPLAMASININ KULLANILMASI, 2013 - 2013

ÇEKMECELİOĞLU D., Uzun S., Project Supported by Higher Education Institutions, Gıda Endüstrisi Atıklarından Alkali Pektinaz Üretimi Ve Modellenmesi, 2011 - 2013

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Bioethanol Production By Using Hazelnut Byproducts, 2012 - 2012

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Gıda Atıklarından Karışık Kültür Fermantasyonu İle Ksilanaz Enzimi Üretimi, 2011 - 2011

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Sonlu Elemanlar Yöntemi İle Yönel Değişmeyen Ve Yönel Bağımlı Besin Örneklerinin Kurutulmasının Modellenmesi, 2009 - 2009

ÇEKMECELİOĞLU D., Project Supported by Higher Education Institutions, Karışık Yemek Atıklarından Biyoetanol Üretimi, 2008 - 2008



## Activities in Scientific Journals

Frontiers in Food Science and Technology, Evaluation Committee Member, 2021 - Continues

## Scientific Refereeing

PROCESS BIOCHEMISTRY, Journal Indexed in SCI-E, December 2021

Bioresource Technology Reports, Other Indexed Journal, November 2021

TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Middle East Technical University, Turkey, November 2021

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, Journal Indexed in ESCI, October 2021

JOURNAL OF FOOD SCIENCE, Journal Indexed in SCI-E, October 2021

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, Journal Indexed in SCI-E, September 2021

BIOPROCESS AND BIOSYSTEMS ENGINEERING, Journal Indexed in SCI-E, August 2021

DRYING TECHNOLOGY, Journal Indexed in SCI-E, July 2021

FOOD AND BIOPRODUCTS PROCESSING: TRANSACTIONS OF THE INSTITUTION OF OF CHEMICAL ENGINEERS, PART C, Journal Indexed in SCI-E, July 2021

JOURNAL OF FOOD PROCESS ENGINEERING, Journal Indexed in SCI-E, June 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, June 2021

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, Journal Indexed in ESCI, May 2021

JOURNAL OF AGRICULTURE AND FOOD RESEARCH, Journal Indexed in ESCI, April 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Middle East Technical University, Turkey, April 2021

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, Journal Indexed in ESCI, March 2021

RENEWABLE ENERGY, Journal Indexed in SCI-E, February 2021

Punjab University Journal of Zoology, Other Indexed Journal, February 2021

Scientific African, Other Indexed Journal, February 2021

BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, February 2021

BIOPROCESS AND BIOSYSTEMS ENGINEERING, Journal Indexed in SCI-E, January 2021

Punjab University Journal of Zoology, Other Indexed Journal, January 2021

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ENERGY & FUELS, Journal Indexed in SCI-E, December 2020

BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, October 2020

WASTE AND BIOMASS VALORIZATION, Journal Indexed in SCI-E, October 2020

WASTE MANAGEMENT, Journal Indexed in SCI-E, September 2020

RENEWABLE ENERGY, Journal Indexed in SCI-E, September 2020

INTERNATIONAL JOURNAL OF GREEN ENERGY, Journal Indexed in SCI-E, September 2020

ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, August 2020

JOURNAL OF FOOD SCIENCE, Journal Indexed in SCI-E, August 2020

Project Supported by Higher Education Institutions, BAP MSc, Middle East Technical University, Turkey, August 2020

BIOMASS & BIOENERGY, Journal Indexed in SCI-E, June 2020

Journal of solid waste management and technology , Other Indexed Journal, June 2020

JOURNAL OF FOOD SCIENCE, Journal Indexed in SCI-E, May 2020

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2020

JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, Journal Indexed in SCI-E, December 2019

BIOMED RESEARCH INTERNATIONAL, Journal Indexed in SCI-E, November 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2019

WASTE MANAGEMENT, Journal Indexed in SCI-E, October 2019

FOOD AND BIOPROCESS TECHNOLOGY, Journal Indexed in SCI-E, September 2019

Biocatalysis and Agricultural Biotechnology, Journal Indexed in ESCI, September 2019

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Project Supported by Higher Education Institutions, BAP Other, Middle East Technical University, Turkey, May 2019  
Project Supported by Higher Education Institutions, BAP Other, Middle East Technical University, Turkey, May 2019  
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2019  
TUBITAK Project, 1002 - Quick Support Program, Ege University, Turkey, April 2019  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, LEUDEX ARGE  
GIDA SAĞLIK VE DANIŞMANLIK LİMİTED ŞİRKETİ, Turkey, April 2019  
INTERNATIONAL JOURNAL OF GREEN ENERGY, Journal Indexed in SCI-E, March 2019  
Biocatalysis and Agricultural Biotechnology, Journal Indexed in ESCI, March 2019  
Biocatalysis and Agricultural Biotechnology, Journal Indexed in ESCI, February 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Yıldız Technical University, Turkey, February  
2019  
Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey,  
December 2018  
FOOD AND BIOPROCESS TECHNOLOGY, Journal Indexed in SCI-E, November 2018  
ACS Omega, Other Indexed Journal, October 2018  
HARRAN TARIM VE GIDA BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, October 2018  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, MİTTEM ÇEVRE TEKNOLOJİLERİ MÜHENDİSLİK  
MAKİNA VE İNŞAAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, August 2018  
Journal of the Solid Waste Technology and Management, Other Indexed Journal, June 2018  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, SCI Journal, May 2018  
WASTE MANAGEMENT, Journal Indexed in SCI-E, April 2018  
FOOD AND BIOPROCESS TECHNOLOGY, Journal Indexed in SCI-E, March 2018  
Biocatalysis and Agricultural Biotechnology, Journal Indexed in ESCI, March 2018  
HARRAN TARIM VE GIDA BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, March 2018  
BIOPROCESS AND BIOSYSTEMS ENGINEERING, SCI Journal, February 2018

## Metrics

Publication: 74  
Citation (WoS): 558  
Citation (Scopus): 382  
H-Index (WoS): 13  
H-Index (Scopus): 11

## Scholarships

2015 Yılı 2219-Yurt Dışı Doktora Sonrası Araştırma Burs Programı 1. Dönem, TUBITAK, 2016 - 2017

## Awards

Uzuner S., Çekmecelioğlu D., ODTÜ Yılın En İyi Tezi Ödülü 2014-2015, Odtü Fen Bilimleri Enstitüsü, June 2016

## Non Academic Experience

Middle East Technical University  
Quartermaster&Finance School and Training Center Command

Middle East Technical University  
Pennsylvania State University  
University of Gaziantep