

MEHMET BURAK BÜYÜKCAN

ASST. PROF.

Email : buyukcanb@comu.edu.tr

Office Phone : [+90 286 218 0018](tel:+902862180018) Extension: 23120

International Researcher IDs

ORCID: 0000-0001-9664-2945

Yoksis Researcher ID: 124070

Education

Doctorate 2008 - 2016	Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği, Turkey
Postgraduate 2005 - 2008	Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Tarım Makinaları, Turkey
Undergraduate 2001 - 2005	Canakkale Onsekiz Mart University, Ziraat Fakültesi, Tarım Makinaları, Turkey

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Education Management and Planning, 2237 PROJE EĞİTİMİ ETKİNLİKLERİNİ DESTEKLEME PROGRAMI, NAMIK KEMAL Ü. ZİRAAT F., 2014

Dissertations

Doctorate, TAZE KAYISILARIN KALİTE ÖZELLİKLERİNİN TERMAL OLMAYAN TEKNİKLERLE MUHAFAZASI VE SAYISAL GÖRÜNTÜLEME İLE DEĞERLENDİRİLMESİ , Canakkale Onsekiz Mart University, Fen Bilimleri, Gıda Mühendisliği, 2016
Postgraduate, Kayısıda bazı içsel kalite kriterlerinin Fourier dönüşümlü-yakın kızıl ötesi (FT-NIR) spektroskopisi kullanarak belirlenmesi, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Tarım Makinaları, 2008

Academic Titles / Tasks

Research Assistant PhD 2016 - Continues	Canakkale Onsekiz Mart University, Ziraat Fakültesi, Tarım Makinaları Ve Teknolojileri Mühendisliği Bölümü
Research Assistant 2005 - Continues	Canakkale Onsekiz Mart University, Ziraat Fakültesi, Tarım Makinaları Ve Teknolojileri Mühendisliği Bölümü

Supported Projects

1. CANER C., BÜYÜKCAN M. B., Project Supported by Higher Education Institutions, Taze kayisların kalite özelliklerinin termal olmayan tekniklerle muhafazası ve sayısal görüntüleme ile değerlendirilmesi, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Efficacy evaluation of ultrasound treatment on the postharvest storability of white nectarine by both physicochemical and image processing analyses**
TEMİZKAN R., Atan M., BÜYÜKCAN M. B., CANER C.
POSTHARVEST BIOLOGY AND TECHNOLOGY, vol.154, pp.41-51, 2019 (SCI-Expanded)
2. **Prediction of some internal quality parameters of apricot using FT-NIR spectroscopy**
BÜYÜKCAN M. B., KAVDIR İ.
Journal of Food Measurement and Characterization, vol.11, no.2, pp.651-659, 2017 (SCI-Expanded)
3. **Analysis of Fatty Acids in Kernel, Flour, and Oil Samples of Maize by NIR Spectroscopy Using Conventional Regression Methods**
EGESEL C. Ö., KAHRIMAN F., EKİNCİ N., KAVDIR İ., BÜYÜKCAN M. B.
CEREAL CHEMISTRY, vol.93, no.5, pp.487-492, 2016 (SCI-Expanded)
4. **Potential of antimicrobial active packaging 'containing natamycin, nisin, pomegranate and grape seed extract in chitosan coating' to extend shelf life of fresh strawberry**
Duran M., ADAY M. S., DEMİREL ZORBA N. N., TEMİZKAN R., BÜYÜKCAN M. B., CANER C.
FOOD AND BIOPRODUCTS PROCESSING, vol.98, pp.354-363, 2016 (SCI-Expanded)
5. **Drying, Energy, and Some Physical and Nutritional Quality Properties of Tomatoes Dried with Short-Infrared Radiation**
KOCABIYIK H., YILMAZ N., TUNCEL N. B., SUMER S. K., BUYUKCAN M. B.
FOOD AND BIOPROCESS TECHNOLOGY, vol.8, no.3, pp.516-525, 2015 (SCI-Expanded)
6. **The effects of middle infrared radiation intensity on the quality of dried tomato products**
KOCABIYIK H., Yilmaz N., TUNCEL N. B., SÜMER S. K., BÜYÜKCAN M. B.
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.49, no.3, pp.703-710, 2014 (SCI-Expanded)
7. **Role of Ozone Concentrations and Exposure Times in Extending Shelf Life of Strawberry**
Aday M. S., Büyükcan M. B., Temizkan R., Caner C.
OZONE-SCIENCE & ENGINEERING, vol.36, no.1, pp.43-56, 2014 (SCI-Expanded)
8. **MAINTAINING THE QUALITY OF STRAWBERRIES BY COMBINED EFFECT OF AQUEOUS CHLORINE DIOXIDE WITH MODIFIED ATMOSPHERE PACKAGING**
Aday M. S., Büyükcan M. B., Caner C.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.37, no.5, pp.568-581, 2013 (SCI-Expanded)
9. **An innovative technique for extending shelf life of strawberry: Ultrasound**
ADAY M. S., TEMİZKAN R., BÜYÜKCAN M. B., CANER C.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.52, no.2, pp.93-101, 2013 (SCI-Expanded)
10. **Determining Frying Oil Degradation by Near Infrared Spectroscopy Using Chemometric Techniques**
ÖĞÜTCÜ M., Aydeniz B., BÜYÜKCAN M. B., YILMAZ E.
JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, vol.89, no.10, pp.1823-1830, 2012 (SCI-Expanded)
11. **Prediction of olive quality using FT-NIR spectroscopy in reflectance and transmittance modes**
KAVDIR İ., BÜYÜKCAN M. B., Lu R., KOCABIYIK H., ŞEKER M.
BIOSYSTEMS ENGINEERING, vol.103, no.3, pp.304-312, 2009 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

1. **Prediction of Cherry Tomato Fruit Color Using FT-NIR Reflectance Spectroscopy**

BÜYÜKCAN M. B., İĞDECİ A., KAVDIR İ.

1. Uluslararası Tarım ve Çevre Bilimleri Araştırmaları Kongresi, Turkey, 7 - 08 December 2019, pp.121-127

2. **New Development Techniques In Agricultural Machinery**

BÜYÜKCAN M. B.

13th International Congress On Mechanization And Energy In Agriculture International Workshop On Precision Agriculture, 13 - 15 September 2017

3. **Comparison of Artificial Neural Networks and Statistical Classifiers in Olive Sorting Using Near-Infrared Spectroscopy**

KAVDIR İ., BÜYÜKCAN M. B., KURTULMUŞ F.

19th International Conference on Agrotechnology and Food Sciences (ICAFS 2017, Rome), 18 - 19 September 2017

4. **Classification of Olives Using FT NIR Spectroscopy and Neural Networks**

KAVDIR İ., BÜYÜKCAN M. B., KURTULMUŞ F.

2016 APCBEES SAN FRANCISCO CONFERENCE ABSTRACT, San-Francisco, Costa Rica, 26 - 28 October 2016

5. **DETECTION OF AFLATOXIN CONTAMINATED FIGS USING NEAR-INFRARED (NIR) REFLECTANCE SPECTROSCOPY**

Gunes A., Kalkan H., Durmus E., BÜYÜKCAN M. B.

10th International Conference on Electronics, Computer and Computation (ICECCO), Ankara, Turkey, 7 - 09 November 2013, pp.123-126

6. **Nondestructive Olive Quality Detection Using FT-NIR Spectroscopy in Reflectance Mode**

KAVDIR İ., BÜYÜKCAN M. B., KOCABIYIK H., Lu R., ŞEKER M.

International Symposium on Application of Precision Agriculture for Fruits and Vegetables, Florida, United States Of America, 01 April 2009, vol.824, pp.373-380

7. **NIR Spektroskopisi Kullanarak Domatiste Sertliğin Hasarsız olarak Tahmin Edilmesinde Farklı Sertlik Ölçüm Yöntemlerinin Değerlendirilmesi**

İĞDECİ A., BÜYÜKCAN M. B., KAVDIR İ.

32. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi, Turkey, 4 - 06 September 2019

Memberships / Tasks in Scientific Organizations

TARMAKDER (Tarım Makinaları Derneği), Member, 2006 - Continues

Metrics

Publication: 68

Citation (WoS): 411

Citation (Scopus): 517

H-Index (WoS): 11

H-Index (Scopus): 11

Research Areas

Agricultural Sciences, Agriculture, Farm Machinery, Agricultural Tools and Machines, Agricultural Electrification and Automation, Food Engineering, Food Technology, Fruits, Vegetables and Nuts, Food Packaging, Engineering and Technology