

Asst. Prof. YUNUS EMRE ŐEKERLİ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HKV-2055-2023

ScopusID: 57188975415

Yoksis Researcher ID: 22992

Biography

Dr. Sekerli is an Assistant Professor at the Department of Biosystems Engineering of Hatay Mustafa Kemal University, Antakya, Hatay, Turkey. He completed his Ph.D. research in the same department on "the prediction of nutrient content of turfgrass using optical sensors". He has teaching and research responsibilities mainly in the area of Biosystems Engineering. In 2014, he had a summer training period at Warsaw University of Life Sciences on precision agriculture applications in growing winter wheat. He has published research papers on proximal sensing, non-destructive quality evaluation of agricultural and food products, precision agriculture, food processing, and food quality. He is also a member of Precision Agriculture Technology Research Lab at Hatay Mustafa Kemal University.

Education Information

Doctorate, Hatay Mustafa Kemal University, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2013 - 2019

Postgraduate, Turkey 2010 - 2013

Undergraduate, Turkey 2006 - 2010

Foreign Languages

English

Dissertations

Doctorate, Çim bitkisi yaprak su, azot ve diđer besin elementleri düzeyi tahmini için prototip optik algılayıcı geliştirilmesi ve bazı ticari algılayıcılar ile karşılaştırılması, Hatay Mustafa Kemal University, FEN BİLİMLERİ ENSTİTÜSÜ, 2019
Postgraduate, Farklı sıcaklık normları ve yođurt kültürleri uygulanan sütlerden üretilen yođurtlarda kimyasal niteliklerin belirlenmesi, 2013

Research Areas

Farm Machinery

Academic Titles / Tasks

Assistant Professor, Hatay Mustafa Kemal University, Ziraat Fakültesi, Biyosistem Mühendisliği, 2021 - Continues
Research Assistant, 2017 - 2021
Research Assistant, 2012 - 2017

Academic and Administrative Experience

Faculty Management Board Member, Hatay Mustafa Kemal University, Ziraat Fakültesi, 2023 - Continues
Vice Dean, Hatay Mustafa Kemal University, Ziraat Fakültesi, 2022 - 2024
Deputy Head of Department, Hatay Mustafa Kemal University, Ziraat Fakültesi, Biyosistem Mühendisliği, 2021 - 2024

Courses

Mezuniyet Çalışması I, Undergraduate, 2023-2024, 2021-2022
Tarım ve Gıda Ürünlerinde Tahribatsız Kalite Analiz Yöntemler, Undergraduate Double Major, 2023-2024
Tarımsal Savaş Mekanizasyonu, Undergraduate, 2023-2024, 2022-2023, 2021-2022
Hassas Tarım Teknolojileri, Undergraduate, 2023-2024, 2021-2022
Enstrümantasyon ve Kontrol, Undergraduate, 2022-2023, 2021-2022
Temel Elektrik ve Elektronik, Undergraduate, 2022-2023, 2021-2022
Tarımsal Mekanizasyon, Undergraduate, 2022-2023
Mesleki Uygulama II, Undergraduate, 2021-2022
Temel Bilgi Teknolojileri, Undergraduate, 2021-2022
Mesleki Uygulama I, Undergraduate, 2021-2022
Mezuniyet Çalışması II, Undergraduate, 2021-2022
Temel Elektrik ve Elektronik, Undergraduate, 2020-2021
Enstrümantasyon ve Kontrol, Undergraduate, 2020-2021
Temel Bilgi Teknolojileri, Undergraduate, 2020-2021, 2019-2020
Tarımsal Savaş Mekanizasyonu, Associate Degree, 2020-2021, 2019-2020
Akışkanlar Mekaniği, Undergraduate, 2020-2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Rapid and cost-effective assessment of nutrients in pistachio (*Pistacia vera* L.) leaves through Fourier transform near-infrared spectroscopy (FT-NIRS)**
ŞEKERLİ Y. E., Buyuk G., KESKİN M., ÇELİKTAŞ N.
Journal of Plant Nutrition and Soil Science, vol.187, no.3, pp.367-374, 2024 (SCI-Expanded)
- II. **Feasibility of a chromameter and chemometric techniques to discriminate pure and mixed organic and conventional red pepper powders: A pilot study**
KESKİN M., Arslan A., SOYSAL Y., ŞEKERLİ Y. E., ÇELİKTAŞ N.
Journal of Food Processing and Preservation, vol.46, no.6, 2022 (SCI-Expanded)
- III. **Applied microwave power estimation of black carrot powders using spectroscopy combined with chemometrics**
KESKİN M., SOYSAL Y., ÇELİKTAŞ N., ŞEKERLİ Y. E.
Spectroscopy Letters, vol.55, no.5, pp.325-335, 2022 (SCI-Expanded)
- IV. **Comparative assessment of volatile and phenolic profiles of fresh black carrot (*Daucus carota* L.) and powders prepared by three drying methods**
KESKİN M., GÜÇLÜ G., ŞEKERLİ Y. E., SOYSAL Y., SELLİ S., Kelebek H.

Scientia Horticulturae, vol.287, 2021 (SCI-Expanded)

- V. **A low-cost prototype optical sensor to evaluate water, macro and micro elements of turfgrass clippings**
ŞEKERLİ Y. E., KESKİN M., SOYSAL Y.
Sensors and Actuators, A: Physical, vol.323, 2021 (SCI-Expanded)
- VI. **Testing of three sensor systems to predict water and nutrient contents of soccer field turfgrass clippings**
ŞEKERLİ Y. E., KESKİN M., SOYSAL Y.
Urban Forestry and Urban Greening, vol.59, 2021 (SCI-Expanded)
- VII. **Impact of production and drying methods on the volatile and phenolic characteristics of fresh and powdered sweet red peppers**
GÜÇLÜ G., Keser D., Kelebek H., KESKİN M., Emre Sekerli Y. E., SOYSAL Y., SELLİ S.
Food Chemistry, vol.338, 2021 (SCI-Expanded)
- VIII. **Appraisal of Three Proximal Sensing Systems to Estimate Macronutrient Contents of Detached Soybean Leaves**
KESKİN M., SAY S. M., ŞEKERLİ Y. E., ŞEHRİ M.
Communications in Soil Science and Plant Analysis, vol.52, no.16, pp.1943-1953, 2021 (SCI-Expanded)
- IX. **Comparison of a Low-cost Prototype Optical Sensor with Three Commercial Systems in Predicting Water and Nutrient Contents of Turfgrass: Prediction performance of low-cost optical sensor**
ŞEKERLİ Y. E., KESKİN M., SOYSAL Y.
Communications in Soil Science and Plant Analysis, vol.52, no.6, pp.586-600, 2021 (SCI-Expanded)
- X. **Characterization of aroma and phenolic composition of carrot (Daucus carota 'Nantes') powders obtained from intermittent microwave drying using GC-MS and LC-MS/MS**
Keser D., GÜÇLÜ G., Kelebek H., KESKİN M., SOYSAL Y., ŞEKERLİ Y. E., Arslan A., SELLİ S.
Food and Bioproducts Processing, vol.119, pp.350-359, 2020 (SCI-Expanded)
- XI. **Influence of leaf water content on the prediction of nutrient stress in strawberry leaves using chromameter**
KESKİN M., ŞEKERLİ Y. E., Gunduz K.
International Journal of Agriculture and Biology, vol.20, no.9, pp.2103-2109, 2018 (SCI-Expanded)
- XII. **Characterization of volatile compounds and organic acids in ultra-high-temperature milk packaged in tetra brik cartons**
DURSUN A., GÜLER Z., ŞEKERLİ Y. E.
International Journal of Food Properties, vol.20, no.7, pp.1511-1521, 2017 (SCI-Expanded)
- XIII. **Performance of two low-cost GPS receivers for ground speed measurement under varying speed conditions**
KESKİN M., ŞEKERLİ Y. E., Kahraman S.
Precision Agriculture, vol.18, no.2, pp.264-277, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparative analysis of different supervised methods for satellite-based land-use classification: A case study of Reyhanlı**
Özbuldu M., Şekerli Y. E.
MUSTAFA KEMAL UNIVERSITY JOURNAL OF AGRICULTURAL SCIENCES (MKUJAS), vol.29, no.3, pp.707-723, 2024 (Peer-Reviewed Journal)
- II. **GNSS Esaslı Traktör Otomatik Dümenleme Sistemlerinin Ekim İşleminde Paralel Geçişlerde Sıra Arası Mesafe Düzgünlüğüne Etkisi**
TOPÇUERİ M., KESKİN M., ŞEKERLİ Y. E.
Journal of Tekirdag Agricultural Faculty, vol.21, no.1, pp.46-63, 2024 (ESCI)
- III. **Comparative Appraisal of Three Low-Cost GPS Speed Sensors with Different Data Update**

Frequencies

Akkamis M., KESKİN M., ŞEKERLİ Y. E.

AgriEngineering, vol.3, no.2, pp.423-437, 2021 (ESCI)

- IV. **Comparing a chromameter and a hand held NDVI meter to predict nitrogen and water content of turfgrass**
KESKİN M., ÇAM Ç., ŞEKERLİ Y. E.
Mustafa Kemal Üniversitesi tarım bilimleri dergisi (online), vol.25, no.1, pp.57-64, 2020 (Peer-Reviewed Journal)
- V. **Assessment of applied microwave power of intermittent microwave-dried carrot powders from Colour and NIRS**
KESKİN M., SOYSAL Y., ŞEKERLİ Y. E., ARSLAN A., ÇELİKTAŞ N.
AGRONOMY RESEARCH, vol.17, no.2, pp.466-480, 2019 (Scopus)
- VI. **An Evaluation of Combine Harvester Accidents in Turkey**
KESKİN M., ŞEKERLİ Y. E.
MUSTAFA KEMAL UNIVERSITY JOURNAL OF AGRICULTURAL SCIENCES (MKUJAS), vol.2, no.23, pp.137-147, 2018 (Peer-Reviewed Journal)
- VII. **Farmers' Experiences with GNSS-Based Tractor Auto Guidance in Adana Province of Turkey**
KESKİN M., ŞEKERLİ Y. E., SAY S. M., TOPÇUERİ M.
Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Dergisi, vol.2, no.35, pp.172-181, 2018 (Peer-Reviewed Journal)
- VIII. **Causal Factors in Thresher Accidents in Turkey**
KESKİN M., ŞEKERLİ Y. E.
MUSTAFA KEMAL UNIVERSITY JOURNAL OF AGRICULTURAL SCIENCES (MKUJAS), vol.1, no.23, pp.76-84, 2018 (Peer-Reviewed Journal)
- IX. **Relationship between Water Content and Color Properties of Chlorotic and Non Chlorotic Detached Crop Leaves**
KESKİN M., ŞEKERLİ Y. E., GÜNDÜZ K.
Journal of Agricultural Faculty of Uludag University, vol.30, pp.319-324, 2016 (Peer-Reviewed Journal)
- X. **Analysis of On Road Farm Tractor Accidents in Hatay Province of Turkey from 2000 to 2015**
KESKİN M., ŞEKERLİ Y. E., ARSLAN A.
Journal of Agricultural Faculty of Uludag University, vol.30, pp.325-333, 2016 (Peer-Reviewed Journal)
- XI. **Awareness and adoption of precision agriculture in the Cukurova region of Turkey**
KESKİN M., ŞEKERLİ Y. E.
Agronomy Research, vol.14, no.4, pp.1307-1320, 2016 (Scopus)
- XII. **Distribution of Volatile Compounds in Organic Tomato (*Lycopersicon esculentum*) at Different Ripening Stages**
GÜLER Z., ŞEKERLİ Y. E.
Akademik Gıda, vol.11, no.2, pp.6-13, 2013 (Peer-Reviewed Journal)
- XIII. **Distribution of volatile Compounds in organic tomato *Lycopersicon esculentum* at different ripening time**
GÜLER Z., ŞEKERLİ Y. E.
Akademik Food, vol.11, no.2, pp.6-13, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Feasibility of a chromameter and chemometric techniques to discriminate pure and mixed organic and conventional red pepper powders: A pilot study**
KESKİN M., ARSLAN A., SOYSAL Y., ŞEKERLİ Y. E., ÇELİKTAŞ N.
2ND INTERNATIONAL CONFERENCE ON RAW MATERIALS TO PROCESSED FOODS, Adana, Turkey, 03 June 2021
- II. **FT-NIRS and Chromameter-Based Estimation of Applied Microwave Power of Black Carrot Powders Obtained from Intermittent Microwave Drying**
KESKİN M., SOYSAL Y., ÇELİKTAŞ N., ŞEKERLİ Y. E.

2ND INTERNATIONAL VIRTUAL CONFERENCE ON RAW MATERIALS TO PROCESSED FOODS, Adana, Turkey, 03 June 2021

- III. **Testing of Five Optical Devices to Assess Leaf Mineral and Water Content of Detached Potato Leaves**
KESKİN M., ŞEKERLİ Y. E.
IV International Scientific Conference on Conserving Soils and Water, Burgas, Bulgaria, 28 August 2019, vol.1, pp.131
- IV. **Development of a Low-Cost Prototype Optical Sensor to Predict Turfgrass Leaf Water and Nutrients**
ŞEKERLİ Y. E., SOYSAL Y., KESKİN M.
IV International Scientific Conference on Conserving Soils and Water, Burgas, Bulgaria, 28 August 2019, vol.1, pp.132
- V. **Assessment of applied microwave power of intermittent microwave-dried carrot powders from Colour and NIRS**
ÇELİKTAŞ N., KESKİN M., SOYSAL Y., ŞEKERLİ Y. E.
BSE International Conference on Biosystems Engineering, Tartu, Estonia, 8 - 10 May 2019, pp.32
- VI. **Infrared Drying Characteristics of Pepper at Different Maturity Stages**
SOYSAL Y., KESKİN M., ARSLAN A., ŞEKERLİ Y. E.
International Conference on Energy Research, Alanya, Turkey, 01 November 2018, vol.1, pp.293-304
- VII. **Predicting Drying Temperature of Infrared-Dried Pepper Powders Using FT-NIRS and Chromameter**
KESKİN M., SOYSAL Y., ŞEKERLİ Y. E., ARSLAN A., ÇELİKTAŞ N.
International Conference on Energy Research, Alanya, Turkey, 31 October - 02 November 2018, pp.304-317
- VIII. **An Overview of GNSS and GPS based Velocity Measurement in Comparison to Other Techniques**
KESKİN M., AKKAMIŞ M., ŞEKERLİ Y. E.
International Congress on Energy Research, Alanya, Turkey, 31 October - 02 November 2018, pp.389-401
- IX. **An Evaluation of Combine Harvester Accidents in Turkey**
KESKİN M., ŞEKERLİ Y. E.
4TH INTERNATIONAL AGRICULTURE CONGRESS, Nevşehir, Turkey, 5 - 08 July 2018, pp.135
- X. **Causal Factors in Thresher Accidents in Turkey**
KESKİN M., ŞEKERLİ Y. E.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.185
- XI. **Adoption of Precision Agriculture Technologies in Developed and Developing Countries**
SAY S. M., KESKİN M., ŞEHRİ M., ŞEKERLİ Y. E.
International Science and Technology Conference, Berlin, Germany, 17 July 2017, vol.1, pp.41-49
- XII. **Yield Estimation Methods Before and After Harvest in Citrus Groves**
KESKİN M., ŞEKERLİ Y. E., SAY S. M., ŞEHRİ M.
2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 23 - 25 October 2017, pp.1990-1997
- XIII. **Farmers' Satisfaction Level with GNSS-Based Tractor Auto Guidance Systems in Adana Province of Turkey**
KESKİN M., ŞEKERLİ Y. E., SAY S. M., Topçueri M.
13th International Congress on Mechanization and Energy in Agriculture International Workshop on Precision Agriculture, İzmir, Turkey, 13 - 15 September 2017, pp.27
- XIV. **Studying the Effect of Leaf Moisture Content on the Prediction of Leaf Nutrient Stress in Strawberry Leaves Using a Chromameter**
KESKİN M., ŞEKERLİ Y. E., GÜNDÜZ K.
2. Ulusal Biyosistem Mühendisliği Kongresi, Tokat, Turkey, 29 June - 01 July 2017, pp.97
- XV. **Analysis of Farm Machinery Accidents in Hatay Province of Turkey from 2005 to 2015**
KESKİN M., ŞEKERLİ Y. E., ARSLAN A.
27th International Scientific-Expert Congress of Agriculture and Food Industry, Bursa, Turkey, 26 - 28 September 2016
- XVI. **Relationship between Water Content and Color Properties of Chlorosed and Non Chlorosed Detached Crop Leaves**

KESKİN M., ŞEKERLİ Y. E.

Relationship between Water Content and Color Properties of Chlorosed and Non-Chlorosed Detached Crop Leaves, Bursa, Turkey, 26 - 28 September 2016

XVII. **Awareness and adoption of precision agriculture in the Cukurova region of Turkey**

KESKİN M., ŞEKERLİ Y. E.

7th International Conference on Biosystems Engineering, Tartu, Estonia, 12 - 13 May 2016

Supported Projects

ŞEKERLİ Y. E., TEKİN A., DURSUN A., İNCİLİ G. K., HAYALOĞLU A. A., Su Kefiri Mikrobiyotası ile Lezzetlendirilmiş Bitki Bazlı Peynir Analogu Üretimi: Proses Optimizasyonu, Aroma-Aktif Bileşenler ile In Vitro Sindirim Öncesi ve Sonrası Biyoaktif Özelliklerinin Belirlenmesi, 2023 - Continues

ŞAHİN C. B., MERT A., SOYSAL Y., ŞEKERLİ Y. E., Project Supported by Higher Education Institutions, Üç farklı mikrodalga güç seviyesinde kurutulan Aynısafa (*Calendula officinalis* L.) bitkisi çiçeklerinin bazı fitokimyasal içeriklerinin tahribatsız optik analiz yöntemleri ile belirlenmesi, 2022 - Continues

ŞEKERLİ Y. E., KESKİN M., Project Supported by Higher Education Institutions, Farklı Düzeltme Sinyali ile Çalışan GNSS Esaslı Traktör OtomatikDümenleme Sistemlerinin Ekim İşleminde İş Başarısının Belirlenmesi, 2018 - 2019

ŞEKERLİ Y. E., KESKİN M., Project Supported by Higher Education Institutions, Yaprak Mineral Madde Stresinin Belirlenmesinde Klorofilmetre ve Renk Ölçer Cihazlarının Birlikte Kullanımı, 2018 - 2019

ŞEKERLİ Y. E., KESKİN M., SOYSAL Y., Project Supported by Higher Education Institutions, Çim Bitkisi Yaprak Azot Konsantrasyonu Tahmini İçin Prototip Optik Sensör Tasarımı, 2017 - 2019

KESKİN M., ŞEKERLİ Y. E., Project Supported by Higher Education Institutions, GPS Esaslı Hız Ölçüm Sensörlerinin Performansının Belirlenmesi, 2016 - 2018

KESKİN M., ŞEKERLİ Y. E., Project Supported by Higher Education Institutions, Adana İlinde Otomatik Dümenleme Kullanan Çiftçilerin Memnuniyet Düzeylerinin Araştırılması, 2017 - 2017

ŞEKERLİ Y. E., KESKİN M., Project Supported by Higher Education Institutions, Çukurova Bölgesi nde Hassas Tarım Teknolojileri HTT Konusunda Bilgi Düzeyinin Belirlenmesi ve Hedef Kitlenin Eğitimi, 2014 - 2015

ŞEKERLİ Y. E., GÜNDÜZ K., KESKİN M., Project Supported by Higher Education Institutions, Çilekte Yaprak Su İçeriğinin Renk Parametrelerinden Yaprak Mineral Madde İçeriğinin Belirlenmesine Etkisi, 2014 - 2015

KESKİN M., ŞEKERLİ Y. E., TUBITAK Project, Düşük Maliyetli GPS Alıcılarının Yer Hızı Ölçüm Doğruluğunun Artırılması Amacıyla Hata Düzeltme Modeli Geliştirilmesi, 2013 - 2015

ŞEKERLİ Y. E., GÜLER Z., Project Supported by Higher Education Institutions, Farklı Sıcaklık Normları ve Yogurt Kültürleri Uygulanan Sütlerden Üretilen Yoğurtlarda Kimyasal Niteliklerinin Belirlenmesi, 2011 - 2013

Metrics

Publication: 43

Citation (WoS): 258

Citation (Scopus): 210

H-Index (WoS): 6

H-Index (Scopus): 7