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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Tarım Makinaları Ve Teknolojileri Mühendisliği, Turkey 2018 - 2024

Undergraduate, Cukurova University, Ziraat Fakültesi, Tarım Makineleri Ve Teknolojileri Mühendisliği, Turkey 2018 - 2023

Postgraduate, Cukurova University, Bitki Koruma Makinaları, Turkey 2015 - 2018

Undergraduate, Cukurova University, Makine Mühendisliği, Turkey 2007 - 2011

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Meyve Ağaçları için Değişken Oranlı Hava ve Sıvı Uygulamalı Pülverizatör Tasarımı, İmalatı ve Etkinlik Analizi, Cukurova University, Ziraat Fakültesi, Tarım Makineleri Ve Teknolojileri Mühendisliği, 2024

Postgraduate, Yerli Yapım Tarla Pülverizatörlerinde Durum Tespiti ve Kullanılan Püskürtme Kollarının Teknik Yönden Değerlendirilmesi, Cukurova University, Bitki Koruma Makinaları, 2018

Research Areas

Agricultural Sciences, Agriculture, Farm Machinery

Academic Titles / Tasks

Assistant Professor, Cukurova University, Ziraat Fakültesi, Tarım Makineleri Ve Teknolojileri Mühendisliği, 2025 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. Sustainability analysis of various air-assisted orchard sprayer fan designs: Performance, energy and carbon footprint

İtmeç M., Bayat A., Özlüoymak Ö. B., Soysal A.

INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING, vol.17, no.6, pp.32-37, 2024 (SCI-Expanded)

II. Development and assessment of a novel servo-controlled spraying system for real time adjustment of the orientation angle of the nozzles of a boom sprayer

Bayat A., İtmeç M., Özlüoymak Ö. B.

PEST MANAGEMENT SCIENCE, vol.15264998, no.15264998, pp.1-12, 2023 (SCI-Expanded)

III. Assessment of Spray Drift with Various Adjuvants in a Wind Tunnel

İtmeç M., Bayat A., Bolat A., Toraman M. C., Soysal A.

AGRONOMY-BASEL, vol.12, no.10, 2022 (SCI-Expanded)

IV. Drift Reduction by Orienting Boom Sprayers' Nozzles Against the Wind Direction

İtmeç M., Bayat A., Özlüoymak Ö. B.

PHILIPPINE AGRICULTURAL SCIENTIST, vol.104, no.3, pp.299-309, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. Determination of the optimum operating parameters of an axial fan used on the conventional air blast orchard sprayer

İtmeç M., Bayat A.

International Journal of Agriculture, Environment and Food Sciences, vol.4, no.2, pp.224-229, 2021 (Peer-Reviewed Journal)

II. Performance Evaluation of a Boomless Oscillating Field Sprayer at Different Spraying Pressures and Oscillating Rates

Toraman M. C., Bayat A., İtmeç M.

ATATÜRK UNIVERSITY JOURNAL OF AGRICULTURAL FACULTY, vol.52, no.2, pp.128-138, 2021 (Peer-Reviewed Journal)

III. Determination of rainfall effects on kaolin clay coverage rates used in prevention plant from sunburn

İtmeç M., Bayat A., Özlüoymak Ö. B.

International Journal of Agriculture, Environment and Food Sciences, vol.4, no.2, pp.225-229, 2020 (Peer-Reviewed Journal)

IV. THE CURRENT STATE OF SPRAYER MANUFACTURERS IN TURKEY AND SOME STRATEGIES FOR THE FUTURE

Bayat A., İtmeç M.

SCIENTIFIC PAPERS-SERIES A-AGRONOMY, vol.61, no.2, pp.105-108, 2018 (ESCI)

V. MODAL ANALYSIS OF FIELD SPRAYER BOOM DESIGN FOR DIFFERENT MATERIALS

Bayat A., İtmeç M., Bolat A.

SCIENTIFIC PAPERS-SERIES A-AGRONOMY, vol.61, no.1, pp.434-437, 2018 (ESCI)

Books

I. EFFECTS OF DEFLECTOR DESIGN ON ORCHARD SPRAYERS

İTMEÇ M.

in: SUSTAINABLE AGRICULTURE TECHNOLOGIES II, PROF.DR.ALİ BAYAT, Editor, İksad Yayınevi, Adıyaman, pp.212-229, 2023

II. ROBOTIC PLATFORMS IN AGRICULTURE

İTMEÇ M.

in: SUSTAINABLE AGRICULTURE TECHNOLOGIES – II, PROF.DR.ALİ BAYAT, Editor, İksad Yayınevi, Adıyaman, pp.230-243, 2023

- III. **AXIAL FAN SELECTION FOR AIR ASSISTED ORCHARD SPRAYERS**
İTMEÇ M.
in: SUSTAINABLE AGRICULTURE TECHNOLOGIES -I, Bayat Ali, Editor, İksad Yayınevi, Adıyaman, pp.147-162, 2022
- IV. **CHEMICALS THAT INCREASE THE APPLICABILITY OF PESTICIDES: ADJUVANTS**
İTMEÇ M.
in: SUSTAINABLE AGRICULTURE TECHNOLOGIES -I, Bayat Ali, Editor, İksad Yayınevi, Adıyaman, pp.163-177, 2022

Papers Published in Refereed Scientific Meetings

- I. **EVALUATION OF ACTIVE METHODS USED TO PROTECT ORCHARDS FROM FROST**
BAYAT A., İTMEÇ M.
BILTEK-VII 7. INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES, Ankara, Turkey, 26 - 27 May 2023, pp.844-855
- II. **TECHNICAL EXAMINATION AND COMPARISON OF FROST PROTECTION MACHINES**
BAYAT A., İTMEÇ M.
BILTEK-VII 7. INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES, Ankara, Turkey, 26 - 27 May 2023, pp.1-7
- III. **Meyve Ağaçlarına İlaç Uygulamada Kullanılan Turbo Atomizörlerin İşletilirken Enerji Tüketiminin Azaltılmasına Yönelik Görüşler**
İTMEÇ M., BAYAT A.
3th International Congress of Engineering and Natural Sciences Studies (ICENSS-2023), Ankara, Turkey, 24 - 25 May 2023, pp.585-590
- IV. **Türkiye’de İmalatı Yapılan İlaçlama Makinelerine Genel Bir Bakış**
İTMEÇ M., BAYAT A.
3th International Congress of Engineering and Natural Sciences Studies (ICENSS-2023), Ankara, Turkey, 24 - 25 May 2023, pp.575-584
- V. **DETERMINATION OF THE PROJECTED AREA OF PLANT CANOPY BY IMAGE PROCESSING METHOD FOR PLANT AREA CHARACTERIZATION**
ÖZLÜOYMAK Ö. B., İTMEÇ M., BAYAT A.
INTERNATIONAL KORKUT ATA SCIENTIFIC RESEARCHES CONFERENCE, Osmaniye, Turkey, 28 June 2022, pp.576-581
- VI. **Modal Analysis of Different Boom Designs of Field Sprayers with a CAD Program**
İtmeç M., Bayat A.
1st International Congress on Biosystems Engineering (ICOBEN2019), Hatay, Turkey, 24 - 27 September 2019, pp.114-120
- VII. **Türkiye’deki Tarla Pülverizatörü İmalatçılarına Genel Bir Bakış**
BAYAT A., İTMEÇ M.
31. ULUSAL TARIMSAL MEKANİZASYON VE ENERJİ KONGRESİ (BURSA), Bursa, Turkey, 5 - 07 September 2018
- VIII. **Farklı 5 marka polietilen yağmurlama sulama borusunun dayanım test sonuçlarının değerlendirilmesi**
ŞEHRİ M., SAY S. M., BAYAT A., İTMEÇ M., KORKMAZ c.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), 22 - 23 November 2018
- IX. **Türkiye’de tarımsal amaçlı kullanılan mobil pompaların karakteristik eğrilerinin saptanması**
İTMEÇ M., BAYAT A., ŞEHRİ M., SAY S. M.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), 22 - 23 November 2018
- X. **Comparison of Boom Design Parameters of Three Tractor Mounted Field Crop Sprayer**
İTMEÇ M., BAYAT A.
13th International Congress on Mechanization and Energy in Agriculture International Workshop on Precision

Supported Projects

İtmeç M., Bayat A., TUBITAK Project, Standart Yardımcı Hava Akımlı Bir Bahçe Pülverizatörünün, Farklı Türde Ağaçlara Değişken Oranlı Hava Hacmi Uygulayabilir Hale Dönüştürülmesi, 2022 - 2023

İtmeç M., Özlüoymak Ö. B., Bayat A., TUBITAK Project, Tarla Pülverizatörlerinde Meme Konum Açısının Rüzgâr Hızına Bağlı Olarak Anlık Değiştirilmesi ile İlaç Sürüklenme Potansiyelinin Kontrolü, 2019 - 2020

Metrics

Publication: 34

H-Index (WoS): 4