

Prof. DAVUT KARAYEL

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Biography

Davut KARAYEL, graduated from the Cukurova University (Adana/Turkey) with a degree in Agricultural Engineering (1995) and obtained his master's and doctoral degree at Akdeniz University (Antalya/Turkey). He defended his doctoral dissertation in the field of Agricultural Engineering (2005). In 2008, he obtained the title of associate professor, and in 2014, the title of professor at Akdeniz University (Antalya/Turkey). He is currently a professor at Akdeniz University, Turkey and a chief researcher at Vytautas Magnus University, Lithuania (performed remotely).

Davut KARAYEL is associate editor of Journal of Computers and Electronics in Agriculture and member of editorial board of Turkish Journal of Agriculture and Forestry. He has published more than 100 scientific papers on agricultural engineering (of which, 27 articles are included in the 'CA Web of Science' database and have a certain level citation impact). He is author of two chapters in 2 international books.

Research interests: technological processes of sowing and crop care machines, technological and environmental assessment of the impact of agricultural technological operations on soil and environment.

Education Information

Doctorate, Akdeniz University, Institute of Science, Tarım Makinaları Abd, Turkey 1999 - 2005

Postgraduate, Akdeniz University, Institute of Science, Tarım Makinaları Abd, Turkey 1996 - 1999

Undergraduate, Cukurova University, Ziraat Fakültesi, Tarım Makinaları Bölümü, Turkey 1991 - 1995

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Hassas Ekimde Farklı Tip Gömücü Ayak ve Derinlik Ayar Sistemlerinin Ekim Kalitesine Etkisi , Akdeniz

University, Institute of Science, Tarım Makinaları Abd, 2005

Postgraduate, Düşey Plakalı Hava Emişli Bir Hassas Ekim Makinasının Bazı Sebze Tohumları İçin Ekim Etkinliği Değerlerinin Laboratuvar ve Tarla Şartlarında Karşılaştırılması, Akdeniz University, Institute of Science, Tarım Makinaları Abd, 1999

Research Areas

Agricultural Sciences, Agriculture, Farm Machinery, Agricultural Tools and Machines, Mechanization in Plant Production

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery and Technologies Engineering, 2014 - Continues

Associate Professor, Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery and Technologies Engineering, 2009 - 2014

Lecturer PhD, Akdeniz University, Technical Sciences Vocational School, Department of Mechanical and Metal Technologies, 2007 - 2009

Research Assistant, Akdeniz University, Institute of Science, Agricultural Machinery, 1996 - 2005

Academic and Administrative Experience

Dean, Akdeniz University, Faculty of Agriculture, 2017 - 2020

Director of Vocational School, Akdeniz University, Technical Sciences Vocational School, 2014 - 2017

Vice Dean, Akdeniz University, Faculty of Agriculture, 2012 - 2014

Courses

Diferansiyel Denklemler, Undergraduate, 2018 - 2019

Pompaj Tesisi ve Makinaları, Undergraduate, 2013 - 2014

Mühendislik Matematiği, Undergraduate, 2013 - 2014

Akışkanlar Mekaniği, Undergraduate, 2013 - 2014

Teknik Resim, Undergraduate, 2012 - 2013

Ekim Bakım ve Gübreleme Mekanizasyonu, Undergraduate, 2013 - 2014

Matematik, Undergraduate, 2010 - 2011

Advising Theses

KARAYEL D., El ile Çekilebilir Ekim Makinası Prototipinin Geliştirilmesi, Postgraduate, H.ÖZENÇ(Student), 2018

KARAYEL D., Tahıl Ekim Makinalarının Tohum Dağılımını İyileştirmek için Yeni Bir Tohum Borusu Tasarımının Geliştirilmesi, Postgraduate, A.AKTAŞ(Student), 2018

KARAYEL D., Potlu Domates ve Karpuz Fidesi Dikiminde Farklı Toprak İşleme Yöntemlerinin Dikim Kalitesine Etkisi, Postgraduate, H.AYTEM(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

1. The potential biopesticidal effects of torrefaction liquid of corn stalk pellets against Tetranychus

urticae Koch, 1836 (Acari: Tetranychidae)

Yılmaz H., DAĞLI F., TOPAKCI N., ÇANAKCI M., KARAYEL D., CENGİZ M. F., TOPAKCI M.

Biomass and Bioenergy, vol.190, 2024 (SCI-Expanded)

- II. **Empirical Modelling of Power Requirements in Olive Pruning Residue Shredding: Effects of Varying Moisture Content and Rotary Speeds**
Yiğit M., ÇANAKCI M., KARAYEL D.
Agronomy, vol.14, no.7, 2024 (SCI-Expanded)
- III. **Influence of tillage methods and soil crust breakers on cotton seedling emergence in silty-loam soil**
KARAYEL D., Šarauskis E.
Soil and Tillage Research, vol.239, 2024 (SCI-Expanded)
- IV. **Theoretical and Experimental Verification of the Physical–Mechanical Properties of Organic Bone Meal Granular Fertilizers**
Jotautienė E., Bivainis V., KARAYEL D., Mioldažys R.
Agronomy, vol.14, no.6, 2024 (SCI-Expanded)
- V. **Investigation of the performance of a cylindrical hopper and metering device of a carrot seeder**
Valentin M. T., Białowiec A., KARAYEL D., Jasinskas A., Ciolkosz D., Lavarias J. A.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VI. **Improving the seed detection accuracy of piezoelectric impact sensors for precision seeders. Part II: Evaluation of different plate materials**
Rossi S., Rubio Scola I., Bourges G., Šarauskis E., KARAYEL D.
Computers and Electronics in Agriculture, vol.215, 2023 (SCI-Expanded)
- VII. **Improving the seed detection accuracy of piezoelectric impact sensors for precision seeders. Part I: A comparative study of signal processing algorithms**
Rossi S., Rubio Scola I., Bourges G., Šarauskis E., KARAYEL D.
Computers and Electronics in Agriculture, vol.215, 2023 (SCI-Expanded)
- VIII. **In-situ pelletization of campus biomass residues: Case study for Akdeniz University**
Yılmaz H., ÇANAKCI M., TOPAKCI M., KARAYEL D., Yiğit M., ORTAÇEŞME D.
Renewable Energy, vol.212, pp.972-983, 2023 (SCI-Expanded)
- IX. **Technical evaluation of transplanters' performance for potted seedlings**
KARAYEL D., ÇANAKCI M., TOPAKCI M., Aktaş A., Aytem H., Kriauciuniene Z.
Turkish Journal of Agriculture and Forestry, vol.47, no.1, pp.116-123, 2023 (SCI-Expanded)
- X. **Estimation of Optimum Vacuum Pressure of Air-Suction Seed-Metering Device of Precision Seeders Using Artificial Neural Network Models**
KARAYEL D., Güngör O., Šarauskis E.
Agronomy, vol.12, no.7, 2022 (SCI-Expanded)
- XI. **Effect of Torrefaction Conditions on Physical and Thermal Properties of High- and Low- Quality Palm Pruning Residue Pellets**
Yılmaz H., TOPAKCI M., VAROL M., KARAYEL D., ÇANAKCI M.
Bioenergy Research, vol.15, no.1, pp.530-543, 2022 (SCI-Expanded)
- XII. **The effect of raw material moisture and particle size on agri-pellet production parameters and physical properties: A case study for greenhouse melon residues**
YILMAZ H., ÇANAKCI M., TOPAKCI M., KARAYEL D.
BIOMASS & BIOENERGY, vol.150, 2021 (SCI-Expanded)
- XIII. **Design and development of the PLC based sensor and instrumentation system for self-propelled pruning residue mulcher prototype**
ÜNAL İ., ÇANAKCI M., TOPAKCI M., KARAYEL D., ÇAKIR M.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.186, 2021 (SCI-Expanded)
- XIV. **Development of a mobile robot-based combined sensor platform to determine the correlation between soil penetration resistance and electrical conductivity**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D., YILMAZ E., KABAŞ Ö.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.45, no.3, pp.365-379, 2021 (SCI-Expanded)

- XV. **Comparison of the physical properties of cotton and sesame stalk pellets produced at different moisture contents and combustion of the finest pellets**
YILMAZ H., TOPAKCI M., KARAYEL D., ÇANAKCI M.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (SCI-Expanded)
- XVI. **EFFECTS OF DIFFERENT SOIL TILLAGE-SOWING SYSTEMS ON PLANT DEVELOPMENT AND EMERGENCE TRAITS OF SECOND CROP SOYBEAN**
KABAŞ Ö., Kocaturk M., Ozkan C. F., Gumrukcu E., ÇANAKCI M., KARAYEL D.
BIOSCIENCE JOURNAL, vol.36, no.6, pp.2092-2107, 2020 (SCI-Expanded)
- XVII. **Optimization of an Industrial Type Prototype Shelf Dryer by Response Surface Methodology "A Case Study for Potato"**
Heybeli N., ERTEKİN C., KARAYEL D.
AMA-AGRICULTURAL MECHANIZATION IN ASIA AFRICA AND LATIN AMERICA, vol.46, no.2, pp.53-60, 2015 (SCI-Expanded)
- XVIII. **Using real-time kinematic (RTK) global positioning system (GPS) for the determination of seedling distributions over the field**
KARAYEL D., TOPAKCI M., Unal I., ŠARAUSKIS E., ÇANAKCI M.
ZEMDIRBYSTE-AGRICULTURE, vol.99, no.4, pp.425-430, 2012 (SCI-Expanded)
- XIX. **The effects of different tillage methods on the post-wheat second crop sesame: seed yield, energy budget, and economic return**
UZUN B., YOL E., Furat S., TOPAKCI M., ÇANAKCI M., KARAYEL D.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.36, no.4, pp.399-407, 2012 (SCI-Expanded)
- XX. **SESAME HILL DROPPING PERFORMANCE OF A VACUUM SEEDER FOR DIFFERENT TILLAGE PRACTICES**
TOPAKCI M., KARAYEL D., ÇANAKCI M., FURAT S., UZUN B.
APPLIED ENGINEERING IN AGRICULTURE, vol.27, no.2, pp.203-209, 2011 (SCI-Expanded)
- XXI. **Design of a Horizontal Penetrometer for Measuring On-the-Go Soil Resistance**
TOPAKCI M., Unal I., ÇANAKCI M., ÇELİK H. K., KARAYEL D.
SENSORS, vol.10, no.10, pp.9337-9348, 2010 (SCI-Expanded)
- XXII. **Improvement of field efficiency measurement system based on GPS for precision agriculture applications**
TOPAKCI M., Unal I., ÇANAKCI M., Yiğit M., KARAYEL D.
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.8, no.3-4, pp.288-292, 2010 (SCI-Expanded)
- XXIII. **Determination of basic machinery management data for PTO driven pruning residue chopper**
ÇANAKCI M., TOPAKCI M., AĞSARAN B., KARAYEL D.
TARIM BİLİMLERİ DERGİSİ-JOURNAL OF AGRICULTURAL SCIENCES, vol.16, no.1, pp.46-54, 2010 (SCI-Expanded)
- XXIV. **Kuyruk Milinden Hareketli Budama Artığı Parçalama Makinasının Temel İşletmecilik Verilerinin Belirlenmesi**
ÇANAKCI M., TOPAKCI M., AĞSARAN B., KARAYEL D.
JOURNAL OF AGRICULTURAL SCIENCE, vol.16, no.1, pp.46-54, 2010 (SCI-Expanded)
- XXV. **Deep tillage tool optimization by means of finite element method: Case study for a subsoiler tine**
TOPAKCI M., ÇELİK H., ÇANAKCI M., Rennie A. E. W., AKINCI İ., KARAYEL D.
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.8, no.2, pp.531-536, 2010 (SCI-Expanded)
- XXVI. **Kuyruk milinden hareketli budama artığı parçalama makinasının temel işletmecilik verilerinin belirlenmesi**
ÇANAKCI M., TOPAKCI M., AĞSARAN B., KARAYEL D.
JOURNAL OF AGRICULTURAL SCIENCE, vol.16, no.1, pp.46-54, 2010 (SCI-Expanded)
- XXVII. **Determination of Basic Machinery Management Data for PTO Driven Pruning Residue Chopper**
ÇANAKCI M., TOPAKCI M., AĞSARAN B., KARAYEL D.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.16, no.1, pp.46-54, 2010 (SCI-Expanded)
- XXVIII. **Evaluation of Seed Distribution in the Horizontal Plane and Plant Growing Area for Row Seeding Using Voronoi Polygons**

- Karayel D.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BILIMLERI DERGISI, vol.16, no.2, pp.97-103, 2010 (SCI-Expanded)
- XXIX. **PERFORMANCE OF A NO-TILL SEEDER UNDER DRY AND WET SOIL CONDITIONS**
ÇANAKCI M., KARAYEL D., TOPAKCI M., KOC A.
APPLIED ENGINEERING IN AGRICULTURE, vol.25, no.4, pp.459-465, 2009 (SCI-Expanded)
- XXX. **Performance of a modified precision vacuum seeder for no-till sowing of maize and soybean**
Karayel D.
SOIL & TILLAGE RESEARCH, vol.104, no.1, pp.121-125, 2009 (SCI-Expanded)
- XXXI. **Evaluation of three depth-control components on seed placement accuracy and emergence for a precision planter**
KARAYEL D., ÖZMERZİ A.
APPLIED ENGINEERING IN AGRICULTURE, vol.24, no.3, pp.271-276, 2008 (SCI-Expanded)
- XXXII. **Comparison of vertical and lateral seed distribution of furrow openers using a new criterion**
Karayel D., ÖZMERZİ A.
SOIL & TILLAGE RESEARCH, vol.95, no.1-2, pp.69-75, 2007 (SCI-Expanded)
- XXXIII. **Laboratory measurement of seed drill seed spacing and velocity of fall of seeds using high-speed camera system**
Karayel D., Wiesehoff M., Özmerzi A., Müller J.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.50, no.2, pp.89-96, 2006 (SCI-Expanded)
- XXXIV. **Effect of forward speed on hill dropping uniformity of a precision vacuum seeder**
Karayel D., Özmerzi A.
HORTTECHNOLOGY, vol.14, no.3, pp.364-367, 2004 (SCI-Expanded)
- XXXV. **Mathematical modelling of vacuum pressure on a precision seeder**
Karayel D., Barut Z., Özmerzi A.
BIOSYSTEMS ENGINEERING, vol.87, no.4, pp.437-444, 2004 (SCI-Expanded)
- XXXVI. **Effect of sowing depth on precision seeder uniformity**
Ozmerzi A., KARAYEL D., TOPAKCI M.
BIOSYSTEMS ENGINEERING, vol.82, no.2, pp.227-230, 2002 (SCI-Expanded)
- XXXVII. **Effect of sowing depth on precision seeder uniformity**
Özmerzi A., KARAYEL D., TOPAKCI M.
Biosystems Engineering, vol.82, no.2, pp.227-230, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Effect of Furrow Opener and Disc Coulter Configurations on Seeding Performance under Different Residue Cover Densities**
KARAYEL D., Jotautienė E., Šarauskis E.
AgriEngineering, vol.6, no.2, pp.1277-1288, 2024 (ESCI)
- II. **Design and Experiment of a Helicoidal Seed Tube to Improve Seed Distribution Uniformity of Seed Drills**
KARAYEL D., Šarauskis E., Aktaş A.
Processes, vol.10, no.7, 2022 (Scopus)
- III. **Effect of Die Geometry and Moisture Content on Pelletizing of Palm Pruning Residues**
Yılmaz H., TOPAKCI M., ÇANAKCI M., KARAYEL D.
Journal of Tekirdag Agricultural Faculty, vol.19, no.2, pp.204-214, 2022 (Scopus)
- IV. **Çim Peleti Üretiminde Kalıp Delik Çapı ve Nem İçeriğinin Üretim Parametreleri ve Pelet Fiziksel Özelliklerine Etkisi**
YILMAZ H., TOPAKCI M., ÇANAKCI M., KARAYEL D.
ÇOMÜ ZİRAAT FAKÜLTESİ DERGİSİ, vol.9, no.1, pp.47-56, 2021 (Peer-Reviewed Journal)
- V. **The effects of pelletizing moisture on pellet physical properties of olive cake pellets**

Yılmaz H., Topakcı M., Karayel D., Çanakcı M.

Mediterranean Agricultural Sciences, vol.34, no.1, pp.55-61, 2021 (Peer-Reviewed Journal)

- VI. **Performance of a large seed vacuum planter for bare and pelleted onion seeds**
KARAYEL D., HACIYUSUFOĞLU A. F., ÇANAKCI M., TOPAKCI M.
MEDITERRANEAN AGRICULTURAL SCIENCES, vol.33, no.2, pp.253-258, 2020 (Peer-Reviewed Journal)
- VII. **Performance of a large seed vacuum planter for bare and pelleted onion seeds**
KARAYEL D., HACIYUSUFOĞLU A. F., ÇANAKCI M., TOPAKCI M.
MEDITERRANEAN AGRICULTURAL SCIENCES, vol.33, no.2, pp.253-258, 2020 (Peer-Reviewed Journal)
- VIII. **Performance of a large seed vacuum planter for bare and pelleted onion seeds**
KARAYEL D., HACIYUSUFOĞLU A. F., ÇANAKCI M., TOPAKCI M.
MEDITERRANEAN AGRICULTURAL SCIENCES, vol.33, no.2, pp.253-258, 2020 (Peer-Reviewed Journal)
- IX. **Environmental impact of no-tillage farming**
KARAYEL D., Šarauskis E.
Environmental Research, Engineering and Management, vol.75, no.1, pp.7-12, 2019 (Scopus)
- X. **The effect of different blades on the performance values of a pruning chopper used to improve soil properties**
ÇANAKCI M., TOPAKCI M., KARAYEL D., Agsaran B., Kabas O., Yigit M.
Bulgarian Journal of Agricultural Science, vol.25, no.5, pp.1052-1059, 2019 (Scopus)
- XI. **Farklı Gömücü Ayak ve Tohum Borusu Tasarımları ile Tahıl Ekim Makinalarının Tohum Dağılımının İyileştirilmesi**
KARAYEL D., AKTAŞ A.
TARIM MAKİNALARI BİLİMİ DERGİSİ, vol.14, no.2, pp.99-103, 2018 (Peer-Reviewed Journal)
- XII. **Farklı Gömücü Ayak ve Tohum Borusu Tasarımları ile Tahıl Ekim Makinalarının Tohum Dağılımının İyileştirilmesi**
KARAYEL D., AKTAŞ A.
Tarım Makinaları Bilimi Dergisi (Journal of Agricultural Machinery Science), vol.14, no.2, pp.99-103, 2018 (Peer-Reviewed Journal)
- XIII. **Kendi Yürür Bir Budama Artığı Parçalama Makinası İşletme Giderlerinin Belirlenmesi**
ÇANAKCI M., TOPAKCI M., KARAYEL D., ÜNAL İ., ÇAKIR M., YİĞİT M., ÖZDEMİR E.
Tarım Makinaları Bilimi Dergisi, vol.4, no.14, pp.127-134, 2018 (Peer-Reviewed Journal)
- XIV. **Real Time Stubble Cover Ratio Determination by Using an Autonomous Robot**
Ünal İ., Topakcı M., Çanakcı M., Karayel D., Kabaş Ö.
ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, vol.4, pp.79-86, 2017 (Peer-Reviewed Journal)
- XV. **EVALUATION OF SOIL TILLAGE PROCESS TO IMPROVE SEEDBED PREPARATION AND CROP DENSITY**
KRIAUCIŪNIEN Z., RIMANDAS V., CEKANAUŠKAS S., BUTKEVICIEN L., MASILIONYT L., SARAUSKIS E., KARAYEL D., LAZAUSKAS S.
ACTA TECHNICA CORVINIENSIS– Bulletin of Engineering, vol.9, no.4, 2016 (Peer-Reviewed Journal)
- XVI. **Determination of head losses in drip irrigation laterals with cylindrical in-line type emitters through CFD analysis**
ÇELİK H. K., KARAYEL D., Lupeanu M., Rennie A., AKINCI İ.
Bulgarian Journal of Agricultural Science, vol.21, no.3, pp.703-710, 2015 (Scopus)
- XVII. **An Empirical Study of the Efficiency of the Light Bar Usage on Field Sprayer**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D.
Tarım Makinaları Bilimi Dergisi, vol.10, no.3, pp.213-217, 2014 (Peer-Reviewed Journal)
- XVIII. **An Empirical Study of the Efficiency of the Light Bar Usage on Field Sprayer**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D.
Tarım Makinaları Bilimi Dergisi, vol.10, no.3, pp.213-217, 2014 (Peer-Reviewed Journal)
- XIX. **An Empirical Study of the Efficiency of the Light Bar Usage on Field Sprayer**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D.
Journal of Agricultural Machinery Science, vol.10, no.3, pp.213-217, 2014 (Peer-Reviewed Journal)

- XX. **Akdeniz Üniversitesi Ziraat Fakültesi Tarım Makinaları Bölümü Hassas Tarım Çalışmaları**
TOPAKCI M., ÜNAL İ., ÇANAKCI M., KARAYEL D.
Tarım Makinaları Bilimi Dergisi, vol.9, no.4, pp.279-286, 2013 (Peer-Reviewed Journal)
- XXI. **Theoretical analysis of interaction of disc coulters and straw residues under no-tillage conditions**
Šarauskis E., Romaneckas K., Sakalauskas A., Vaiciukevičius E., Vaitauskiene K., KARAYEL D., Petrauskas R.
Agronomy Research, vol.11, no.1, pp.89-96, 2013 (Scopus)
- XXII. **Linearity Comparison of Single and Dual Frequency GPS Receivers under Dynamic Conditions**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D., YİĞİT M.
Akdeniz Üniversitesi Ziraat Fak. Derg., no.25, pp.85-92, 2012 (Peer-Reviewed Journal)
- XXIII. **Linearity Comparison Of Single And Dual Frequency Gps Receivers Under Dynamic Conditions**
ÜNAL İ., TOPAKCI M., ÇANAKCI M., KARAYEL D., YİĞİT M.
AKDENİZ ÜNİVERSİTESİ ZİRAAT FAKÜLTESİ DERGİSİ, pp.85-92, 2012 (Peer-Reviewed Journal)
- XXIV. **Determination of Efficiency of Lightened Guidance System on Agricultural Machinery: A Case Study on Fertilizer Broadcaster**
TOPAKCI M., HAS M., ÜNAL İ., ÇANAKCI M., KARAYEL D., KOÇ A.
Journal of Agricultural Machinery Science, no.7, pp.13-17, 2011 (Peer-Reviewed Journal)
- XXV. **Rapid Prototyping and Flow Simulation Applications in Design of Agricultural Irrigation Equipment: Case Study for a Sample In Line Drip Emitter**
ÇELİK H. K., KARAYEL D., ÇAĞLAYAN N., Rennie A., AKINCI İ.
VIRTUAL AND PHYSICAL PROTOTYPING, no.6, pp.47-56, 2011 (Scopus)
- XXVI. **Determination of Flow Parameters through CFD Analysis for Agricultural Irrigation Equipment: A Case Study for a Mini Valve**
ÇELİK H. K., Rennie A. E. W., KARAYEL D., AKINCI İ.
Journal of Agricultural Machinery Science, vol.7, no.3, pp.231-239, 2011 (Peer-Reviewed Journal)
- XXVII. **Rapid prototyping and flow simulation applications in design of agricultural irrigation equipment: Case study for a sample in-line drip emitter: The paper is to study CFD and RP application samples on the design issues associated with agricultural irrigation equipment**
Çelik H. K., Karayel D., Çağlayan N., Rennie A. E., Akıncı İ.
Virtual and Physical Prototyping, vol.6, no.1, pp.47-56, 2011 (Scopus)
- XXVIII. **Structural optimisation of a subsoiler**
TOPAKCI M., ÇELİK H. K., ÇANAKCI M., KARAYEL D., Rennie A.
Pakistan Journal of Scientific and Industrial Research, vol.53, no.5, pp.281-287, 2010 (Scopus)
- XXIX. **Industry of pressurized irrigation system components and its characteristics in West Mediterranean Region**
ÇANAKCI M., AYTEM H., KARAYEL D., TOPAKCI M., AKINCI İ.
Tarım Makinaları Bilimi Dergisi, vol.6(3), pp.153-161, 2010 (Peer-Reviewed Journal)
- XXX. **Antalya ilinde yürütülen koruyucu toprak işleme ve doğrudan ekim çalışmaları**
ÇANAKCI M., KARAYEL D., TOPAKCI M.
TARIM MAKİNALARI BİLİMİ DERGİSİ, vol.6, no.4, pp.209-219, 2010 (Peer-Reviewed Journal)
- XXXI. **Structural optimization of a subsoiler**
Topakçı M., Çelik H. K., Çanakçı M., Karayel D., Rennie A.
PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES, vol.53, no.5, pp.281-287, 2010 (Peer-Reviewed Journal)
- XXXII. **Rapid Prototyping and Flow Simulation Applications in Design of Agricultural Irrigation Equipment: Case Study for A Sample In-Line Drip Emitter**
ÇELİK H. K., KARAYEL D., ÇAĞLAYAN N., AKINCI İ., Rennie A. E. W.
Virtual and Physical Prototyping, Vol. 6 (1): 147-156, vol.6, no.1, pp.147-156, 2010 (Peer-Reviewed Journal)
- XXXIII. **Effect of Different Seedbed Preparation Methods on Physical Properties of Soil**
KARAYEL D., Özmerzi A.
AMA, Agricultural Mechanization in Asia, Africa and Latin America, vol.34, no.3, pp.9-11, 2003 (Scopus)
- XXXIV. **Effect of tillage methods on sowing uniformity of maize**
KARAYEL D., Özmerzi A.

Books & Book Chapters

- I. **Palmye Budama Artığı Peletlerinde Torefikasyon Sıcaklığı ve Bekleme Süresinin Su Emilim Direncine Etkisi**
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Computers and Electronics in Agriculture, Committee Member, 2015 - Continues

Akdeniz Üniversitesi Ziraat Fakültesi Dergisi, Assistant Editor/Section Editor, 2011 - 2013

Memberships / Tasks in Scientific Organizations

Tarım Makinaları Derneği, Member, 2005 - Continues

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