

Prof. CELALEDDİN BARUTÇULAR

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Education Information

Doctorate, Cukurova University, Fen Bilimleri, Tarla Bitkileri, Turkey 1992 - 1999

Postgraduate, Cukurova University, Fen Bilimleri, Tarla Bitkileri, Turkey 1989 - 1992

Undergraduate, Bursa Uludağ University, Yenice Meslek Yüksekokulu, Tarla Bitkileri Yetiştiriciliği Ve Islahı, Turkey 1983 - 1987

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Bitkilerde stres fizyolojisinin moleküler temelleri, E.Ü. Bilim-Teknoloji Uygulama ve Arştırma Merkezi, 1998

Education Management and Planning, Biological and Physical Aspects of Crop Production in Arid Zones, J. Blaustein Institute, 1991

Dissertations

Doctorate, Güneydoğu Anadolu kaynaklı bazı yerel makarnalık buğday çeşitlerinin azot kullanım etkinliği yönünden karşılaştırılması?. Çukurova Üniversitesi Fen Bilimleri Enstitüsü Tarla Bitkileri Anabilim Dalı, Cukurova University, Fen Bilimleri Enstitüsü, Tarla Bitkileri, 1999

Postgraduate, İki makarnalık buğday çeşidinde dane büyüme hız ve süresi ile kurumadde dağılımının dane dolumu başlangıcında uygulanan sulama ve N-yaprak gübrelemesinden etkilenişi üzerinde bir araştırma, Cukurova University, Fen Bilimleri Enstitüsü, Tarla Bitkileri Anabilim Dalı, 1992

Research Areas

Agricultural Sciences, Agriculture, Infield Plants, Cereal Grains (wheat, oats, rye, corn, barley, millets, rice,etc.), Hot

Academic Titles / Tasks

Professor, Cukurova University, Ziraat Fakültesi, Tarla Bitkileri, 2017 - Continues
Associate Professor, Cukurova University, Ziraat Fakültesi, Tarla Bitkileri, 2007 - 2017
Research Assistant PhD, Cukurova University, Fen Bilimleri Enstitüsü, Tarla Bitkileri, 2000 - 2007
Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Tarla Bitkileri, 1990 - 1999

Academic and Administrative Experience

Cukurova University, Pamuk Araştırma Uygulama Merkezi, 2013 - Continues

Courses

Doctorate

Tarla Bitkilerinde Abiotik Gerilim Fizyolojisi, Doctorate, 2017 - 2018

Postgraduate

Sıcak İklim Tahılları Özel Islahı, Postgraduate, 2017 - 2018

Undergraduate

Tarımsal ekoloji, Undergraduate, 2017 - 2018

Tarımsal ekoloji, Undergraduate, 2017 - 2018

Tarımsal ekoloji, Undergraduate, 2017 - 2018

Supervised Theses

BARUTÇULAR C., SPAD ile ölçülen yaprak klorofil değerlerinin Çukurova koşullarında buğday ıslahında destekleyici kriter olarak kullanılabilme olanaklarının araştırılması, Postgraduate, H.Hüseyin(Student), 2017

BARUTÇULAR C., Yüksek sıcaklığın ekmeklik buğdayda morfo-fizyolojik özellikler ve dane verimine etkisi, Postgraduate, K.Mohammad(Student), 2017

BARUTÇULAR C., Mısırdada (Zea mays L. Indentata Sturt.) koçan yaprağı klorofil miktarı ile tane verimi ve verim öğeleri arasındaki ilişkilerin path analizi ile saptanması, Postgraduate, B.TOPAL(Student), 2016

BARUTÇULAR C., Kontrollü salımlı azotlu gübrenin ekmeklik buğdayda (Triticum aestivum L.) tane verimi ve verim öğelerine etkisi, Postgraduate, S.Bayram(Student), 2016

BARUTÇULAR C., Farklı buğday çeşitlerinin kurak ve sıcak koşullarda ıslah kriteri olarak kullanılabilen erken dönem fide özellikleri yönünden irdelenmesi, Postgraduate, İ.TOPTAŞ(Student), 2015

BARUTÇULAR C., Atdışı mısırdada (Zea mays L. Indentata Sturt.) yavaş salımlı azotlu gübrenin tane verim ve verim öğelerine etkileri, Postgraduate, H.Oytun(Student), 2015

BARUTÇULAR C., ÇUKUROVA BÖLGESİ EKMEKLİK BUĞDAY ÇEŞİTLERİNDE (Triticum aestivum L.) ÇİÇEKLENME DÖNEMİNDE IŞIK KULLANIM ETKİNLİĞİ ÖZELLİKLERİ İLE VERİM ARASINDAKİ İLİŞKİLERİNİN İNCELENMESİ, Postgraduate, O.Burak(Student), 2014

BARUTÇULAR C., Farklı buğday türlerine ait genotiplerin verim ve verim oluşumu yönünden Çukurova'nın taban koşullarında karşılaştırılması, Postgraduate, Y.KASAP(Student), 2013

BARUTÇULAR C., ÇUKUROVA KOŞULLARINDA DANE AMARANT?IN (Amaranthus spp.) KURAKLIĞA DAYANMA YÖNÜNDEN İNCELENMESİ, Postgraduate, H.SELÇUK(Student), 2011

Jury Memberships

Post Graduate, Üye, Mustafa Kemal Üniversitesi, Fen Bilimleri Enstitüsü Tarla Bitkileri Anabilim Dalı, March, 2016
Doctorate, Üye, Dicle Üniversitesi, Fen Bilimleri Enstitüsü, Tarla Bitkileri Anabilim Dalı, December, 2015
Doctorate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü Bahçe Bitkileri Anabilim Dalı, January, 2014
Post Graduate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Tarla Bitkileri Anabilim Dalı, January, 2012
Post Graduate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü Tarımsal Yapılar ve Sulama Anabilim Dalı, June, 2011
Post Graduate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Tarla Bitkileri Anabilim Dalı, May, 2011
Post Graduate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Tarla Bitkileri Anabilim Dalı, October, 2010
Post Graduate, Üye, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji Anabilim Dalı, February, 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multivariate Analysis of Root Architecture, Morpho-Physiological, and Biochemical Traits Reveals Higher Nitrogen Use Efficiency Heterosis in Maize Hybrids During Early Vegetative Growth**
Jan M. F., Li M., Liu C., Liaqat W., ALTAF M. T., BARUTÇULAR C., Baloch F. S.
Plants, vol.14, no.3, 2025 (SCI-Expanded)
- II. **Strategies and bibliometric analysis of legumes biofortification to address malnutrition**
Altat M. T., Liaqat W., Jamil A., Jan M. F., Baloch F. S., BARUTÇULAR C., Nadeem M. A., Mohamed H. I.
Planta, vol.260, no.4, 2024 (SCI-Expanded)
- III. **Ultraviolet-B radiation in relation to agriculture in the context of climate change: a review**
Liaqat W., Altat M. T., BARUTÇULAR C., Nawaz H., Ullah I., Basit A., Mohamed H. I.
Cereal Research Communications, vol.52, no.1, pp.1-24, 2024 (SCI-Expanded)
- IV. **Chlorophyll fluorescence: a smart tool for maize improvement**
Jan M. F., Li M., Liaqat W., Altat M. T., Liu C., Ahmad H., Khan E. H., Ali Z., BARUTÇULAR C., Mohamed H. I.
Cereal Research Communications, 2024 (SCI-Expanded)
- V. **Sorghum: a Star Crop to Combat Abiotic Stresses, Food Insecurity, and Hunger Under a Changing Climate: a Review**
Liaqat W., Altat M. T., BARUTÇULAR C., Mohamed H. I., Ahmad H., Jan M. F., Khan E. H.
Journal of Soil Science and Plant Nutrition, 2024 (SCI-Expanded)
- VI. **Drought and sorghum: a bibliometric analysis using VOS viewer**
Liaqat W., ALTAF M. T., BARUTÇULAR C., Zayed E. M., Hussain T.
Journal of Biomolecular Structure and Dynamics, vol.42, no.22, pp.12317-12329, 2024 (SCI-Expanded)
- VII. **Drought stress in sorghum: physiological tools, breeding technology, Omics approaches and Genomic-assisted breeding -A review**
Liaqat W., Altat M. T., BARUTÇULAR C., Mohamed H. I., Ali Z., Khan M. O.
Journal of Soil Science and Plant Nutrition, 2024 (SCI-Expanded)
- VIII. **Pod shattering in canola reduced by mitigating drought stress through silicon application and molecular approaches-A review**
Ahmad Z., BARUTÇULAR C., Rehman M. Z. U., Tariq R. M. S., Afzal M., Waraich E. A., Ahmad A., Iqbal M. A., Bukhari M. A., Ahmad K., et al.
JOURNAL OF PLANT NUTRITION, vol.46, no.1, pp.101-128, 2022 (SCI-Expanded)
- IX. **Exploration of Genetic Pattern of Phenological Traits in Wheat (*Triticum aestivum* L.) under Drought Stress**
Ishaaq I., Farooq M. U., Tahira S. A., Maqbool R., BARUTÇULAR C., Yasir M., Bano S., Ulhassan Z., Zahid G., Asghar M. A., et al.
PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, vol.91, no.12, pp.2733-2758, 2022 (SCI-Expanded)
- X. **Mitigation effects of selenium on accumulation of cadmium and morpho-physiological properties in rice varieties**
Farooq M. U., Ishaaq I., BARUTÇULAR C., Skalicky M., Maqbool R., Rastogi A., Hussain S., Allakhverdiev S., Zhu J.
PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol.170, pp.1-13, 2022 (SCI-Expanded)

- XI. **Climate change in relation to agriculture: A review**
Liaqat W., BARUTÇULAR C., Farooq M. U., Ahmad H., Jan M. F., Ahmad Z., Nawaz H., Li M.
SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol.20, no.2, 2022 (SCI-Expanded)
- XII. **Silicon Mitigates the Adverse Effect of Drought in Canola (Brassica napusl.) Through Promoting the Physiological and Antioxidants Activity**
Bukhari M. A., Sharif M. S., Ahmad Z., BARUTÇULAR C., Afzal M., Hossain A., EL Sabagh A.
SILICON, vol.13, no.11, pp.3817-3826, 2021 (SCI-Expanded)
- XIII. **Foliar Application of Phosphorus Enhances Photosynthesis and Biochemical Characteristics of Maize under Drought Stress**
Ahmad Z., Waraich E. A., Rehman M. Z. u., Ayub M. A., Usman M., Alharby H., Bamagoos A., BARUTÇULAR C., Raza M. A., ÇIĞ F., et al.
PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, vol.90, no.2, pp.503-514, 2021 (SCI-Expanded)
- XIV. **COMPARATIVE STUDY OF GROWTH, PHYSIOLOGY AND YIELD ATTRIBUTES OF CAMELINA (CAMELINA SATIVA L.) AND CANOLA (BRASSICA NAPUS L.) UNDER DIFFERENT IRRIGATION REGIMES**
Waraich E. A., Ahmad R., Ahmad R., Ahmad Z., Ahmad Z., BARUTÇULAR C., ERMAN M., ÇIĞ F., Saneoka H., ÖZTÜRK F., et al.
PAKISTAN JOURNAL OF BOTANY, vol.52, no.5, pp.1537-1544, 2020 (SCI-Expanded)
- XV. **Supplementing Nitrogen in Combination with Rhizobium Inoculation and Soil Mulch in Peanut (Arachis hypogaea L.) Production System: Part I. Effects on Productivity, Soil Moisture, and Nutrient Dynamics**
Mondal M., Skalicky M., Garai S., Hossain A., Sarkar S., Banerjee H., Kundu R., Brestic M., BARUTÇULAR C., ERMAN M., et al.
AGRONOMY-BASEL, vol.10, no.10, 2020 (SCI-Expanded)
- XVI. **EVALUATION OF GRAIN YIELD IN FIFTY-EIGHT SPRING BREAD WHEAT GENOTYPES GROWN UNDER HEAT STRESS**
Youldash K. M., BARUTÇULAR C., El Sabagh A., Toptas I., Kayaalp G., Hossain A., Alharby H., Bamagoos A., Saneoka H., Farooq M.
PAKISTAN JOURNAL OF BOTANY, vol.52, no.1, pp.33-42, 2020 (SCI-Expanded)
- XVII. **Sub-Surface Drip Irrigation in Associated with H2O2 Improved the Productivity of Maize under Clay-Rich Soil of Adana, Turkey**
Sariyev A., BARUTÇULAR C., ACAR M., Hossain A., El Sabagh A.
PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, vol.89, no.3, pp.519-528, 2020 (SCI-Expanded)
- XVIII. **Evaluation of Grain Yield in Fifty- Eight Spring Bread Wheat Genotypes Grown Under Heat Stress**
MUHAMMED K., BARUTÇULAR C., TOPTAŞ İ., KAYAALP G.
PAKISTAN JOURNAL OF BOTANY, vol.53, no.1, pp.33-42, 2020 (SCI-Expanded)
- XIX. **NEMATICIDAL POTENTIAL OF INDIGO GREEN MANURING ON THE INCIDENCE OF ROOT-KNOT DISEASE OF JUTE CAUSED BY NEMATODE (MELOIDOGYNE JAVANICA)**
Hossain A. K. M. M., Zafor A., Hakim A., Islam J., Alharby H., Bamagoos A., BARUTÇULAR C., El Sabagh A., Islam M. S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.12, pp.9293-9300, 2019 (SCI-Expanded)
- XX. **RESPONSE OF MAIZE HYBRIDS TO DROUGHT TOLERANCE IN RELATION TO GRAIN WEIGHT**
EL-SABAGH A., BARUTÇULAR C., HOSSAIN A., ISLAM M. S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.4, pp.2476-2482, 2018 (SCI-Expanded)
- XXI. **EVALUATION OF FIFTY IRRIGATED SPRING WHEAT GENOTYPES GROWN UNDER LATE SOWN HEAT STRESS CONDITION IN MULTIPLE ENVIRONMENTS OF BANGLADESH**
Hossain M., Hossain A., Alam A., El Sabagh A., Ibn Murad K. F., Haque M., Muniruzzaman M., Islam Z., Das S., BARUTÇULAR C., et al.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.9, pp.5993-6004, 2018 (SCI-Expanded)
- XXII. **Responses of grain filling in spring wheat and temperate-zone rice to temperature: Similarities and differences**
Kobata T., Palta J. A., Tanaka T., Ohnishi M., Maeda M., Cedilla M. K., BARUTÇULAR C.
FIELD CROPS RESEARCH, vol.215, pp.187-199, 2018 (SCI-Expanded)

- XXIII. **ASSESSMENT OF THE GRAIN QUALITY OF WHEAT GENOTYPES GROWN UNDER MULTIPLE ENVIRONMENTS USING GGE BIPLLOT ANALYSIS**
YILDIRIM M., BARUTÇULAR C., Koc M., DİZLEK H., Hossain A., Islam M. S., Toptas I., Basdemir F., ALBAYRAK Ö., AKINCI C., et al.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.7, pp.4830-4837, 2018 (SCI-Expanded)
- XXIV. **Harvest index is a critical factor influencing the grain yield of diverse wheat species under rain-fed conditions in the Mediterranean zone of southeastern Turkey and northern Syria**
Kobata T., Koc M., BARUTÇULAR C., Tanno K., INAGAKI M.
PLANT PRODUCTION SCIENCE, vol.21, no.2, pp.71-82, 2018 (SCI-Expanded)
- XXV. **RELATIONSHIPS BETWEEN GRAIN YIELD AND PHYSIOLOGICAL TRAITS OF DURUM WHEAT VARIETIES UNDER DROUGHT AND HIGH TEMPERATURE STRESS IN MEDITERRANEAN ENVIRONMENTS**
BARUTÇULAR C., El Sabagh A., Koc M., Ratnasekera D.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.6, pp.4282-4291, 2017 (SCI-Expanded)
- XXVI. **EVALUATION OF SALT TOLERANCE MUNGBEAN GENOTYPES AND MITIGATION OF SALT STRESS THROUGH POTASSIUM NITRATE FERTILIZATION**
Rahman M., Zahan F., Sikdar S. I., El Sabagh A., Ratnasekera D., BARUTÇULAR C., Islam M. S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.12, pp.7218-7226, 2017 (SCI-Expanded)
- XXVII. **Yield Potential and correlation analysis of some rice hybrids for yield and its component traits**
Anis G., El-Namaky A., AL-ASHKAR I. M., BARUTÇULAR C., EL-SABAGH A.
JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.30, no.2, pp.4748-4757, 2016 (SCI-Expanded)
- XXVIII. **Grain Quality of Doubled Haploid Lines in Rice (*Oryza sativa* L.) Produced by Anther Culture.**
Fazaa M., EL-SABAGH A., Anis G., El-Rewainy I., BARUTÇULAR C., Yildirim M., ISLAM M. S.
JOURNAL OF AGRICULTURAL SCIENCE, vol.8, no.5, pp.184-190, 2016 (SCI-Expanded)
- XXIX. **The Agronomical Performances of Doubled Haploid Lines of Rice (*Oryza sativa* L.) Derived from Anther Culture.**
Fazaa M., EL-SABAGH A., Anis G., El-Rewainy I., BARUTÇULAR C., HATİPOĞLU R., ISLAM M. S.
JOURNAL OF AGRICULTURAL SCIENCE, vol.8, no.5, pp.177-183, 2016 (SCI-Expanded)
- XXX. **Studies on Heterosis for Qualitative and Quantitative Traits in Rice**
Abdel-Moneam M., SULTAN M., Hammoud S., Hefena A., BARUTÇULAR C., EL-SABAGH A.
JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.30, no.2, pp.4736-4747, 2016 (SCI-Expanded)
- XXXI. **QUALITY TRAITS PERFORMANCE OF BREAD WHEAT GENOTYPES UNDER DROUGHT AND HEAT STRESS CONDITIONS**
BARUTÇULAR C., Yildirim M., KOCL M., Dizlek H., Akinci C., EL SABAGH A., Saneoka H., Ueda A., ISLAM M. S., TOPTAS I., et al.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, pp.6159-6165, 2016 (SCI-Expanded)
- XXXII. **EVALUATION OF SPAD CHLOROPHYLL IN SPRING WHEAT GENOTYPES UNDER DIFFERENT ENVIRONMENTS**
BARUTÇULAR C., Yildirim M., KOÇ M., Akinci C., TOPTAS I., Albayrak O., Tanrikulu A., EL SABAGH A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.4, pp.1258-1266, 2016 (SCI-Expanded)
- XXXIII. **Boron Nutrition Studies with Cotton and Sunflower in Southern Turkey**
GÖRMÜŞ Ö., BARUTÇULAR C.
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.47, no.7, pp.915-929, 2016 (SCI-Expanded)
- XXXIV. **Sprinkler irrigation uniformity and crop water productivity of barley in arid region**
Abd El-Wahed M., Elsabagh A., Saneoka H., Abdelkhalek A. A., BARUTÇULAR C.
EMIRATES JOURNAL OF FOOD AND AGRICULTURE, vol.27, no.10, pp.770-775, 2015 (SCI-Expanded)
- XXXV. **SPAD GREENNESS TO ESTIMATE GENOTYPIC VARIATION IN FLAG LEAF CHLOROPHYLL IN SPRING WHEAT UNDER MEDITERRANEAN CONDITIONS**
BARUTÇULAR C., TOPTAS I., Turkten H., Yildirim M., KOÇ M.
TURKISH JOURNAL OF FIELD CROPS, vol.20, no.1, pp.1-8, 2015 (SCI-Expanded)
- XXXVI. **Variations in morphological and physiological traits of bread wheat diallel crosses under timely and**

late sowing conditions

Yildirim M., KOÇ M., Akinci C., BARUTÇULAR C.

FIELD CROPS RESEARCH, vol.140, pp.9-17, 2013 (SCI-Expanded)

- XXXVII. **Assimilate Supply as a Yield Determination Factor in Spring Wheat under High Temperature Conditions in the Mediterranean Zone of South-East Turkey**
Kobata T., KOÇ M., BARUTÇULAR C., Matsumoto T., Nakagawa H., Adachi F., Ünlü M.
PLANT PRODUCTION SCIENCE, vol.15, no.3, pp.216-227, 2012 (SCI-Expanded)
- XXXVIII. **Relationships between Stomatal Conductance and Yield Components in Spring Durum Wheat under Mediterranean Conditions**
Bahar B., Yildirim M., BARUTÇULAR C.
NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.37, no.2, pp.45-48, 2009 (SCI-Expanded)
- XXXIX. **Membrane Thermal Stability at Different Developmental Stages of Spring Wheat Genotypes and Their Diallel Cross Populations**
Yildirim M., Bahar B., Koc M., Barutcular C.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BILIMLERI DERGISI, vol.15, no.4, pp.293-300, 2009 (SCI-Expanded)
- XL. **Possible heat-tolerant wheat cultivar improvement through the use of flag leaf gas exchange traits in a Mediterranean environment**
Koc M., BARUTÇULAR C., Tiryakioglu M.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.88, no.9, pp.1638-1647, 2008 (SCI-Expanded)
- XLI. **Effect of Canopy Temperature Depression on Grain Yield and Yield Components in Bread and Durum Wheat**
Bahar B., Yildirim M., BARUTÇULAR C., Genc I.
NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.36, no.1, pp.34-37, 2008 (SCI-Expanded)
- XLII. **Trends in performance of Turkish durum wheats derived from the International Maize and Wheat Improvement Center in an irrigated West Asian and North African environment**
Barutcular C., KOÇ M., Tiryakioglu M., Yazar A.
JOURNAL OF AGRICULTURAL SCIENCE, vol.144, pp.317-326, 2006 (SCI-Expanded)
- XLIII. **Photosynthesis and productivity of old and modern durum wheats in a Mediterranean environment**
KOÇ M., Barutcular C., Genç İ.
CROP SCIENCE, vol.43, no.6, pp.2089-2098, 2003 (SCI-Expanded)
- XLIV. **Grain protein and grain yield of durum wheats from south-eastern Anatolia, Turkey**
KOÇ M., Barutcular C., Zencirci N.
AUSTRALIAN JOURNAL OF AGRICULTURAL RESEARCH, vol.51, no.6, pp.665-671, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Salinity Stress in Maize: Consequences, Tolerance Mechanisms, and Management Strategies**
Islam M. S., Islam M. R., Hasan M. K., Hafeez A. S. M. G., Chowdhury M. K., Pramanik M. H., Iqbal M. A., ERMAN M., BARUTÇULAR C., Konuşkan Ö., et al.
OBM Genetics, vol.8, no.2, 2024 (Scopus)
- II. **The Effect of Foliar Exogenous Applications on Nitrogen and Yield in Corn Plant**
ÇAKIR B., Barutcular C.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.6, no.3, pp.1851-1863, 2023 (Peer-Reviewed Journal)
- III. **Drought and salinity stresses in barley: Consequences and mitigation strategies**
Elsabagh A., Hossain A., Islam M. S., BARUTÇULAR C., Saddam h., Hasanuzzaman M., Akram T., Mubeen M., Nasim W., Fahad S., et al.
Australian Journal Of Crop Science, vol.13, pp.810-820, 2019 (Scopus)
- IV. **Sustainable soybean production and abiotic stress management in saline environments: a critical**

review

Elsabagh A., Hossain A., Islam M. S., BARUTÇULAR C., Ratnasekera D., Kumar N., Meena R. S., Gharib H. S., Saneoka H., da Silva J. A. T.

Australian Journal Of Crop Science, vol.13, no.2, pp.228-236, 2019 (Scopus)

- V. **Drought and salinity stress management for higher and sustainable canola (*Brassica napus* L.) production: a critical review**
Elsabagh A., Hossain A., BARUTÇULAR C., Islam M. S., Ratnasekera D., Kumar N., Meena R. S., Hany Sobhy G., Saneoka H., da Silva J. A. T.
Australian Journal Of Crop Science, vol.13, no.1, pp.88-97, 2019 (Scopus)
- VI. **Soil test based with additional nutrients increased the fertility and productivity of wheat-mungbean-T. Aman rice cropping pattern in the High Ganges River Floodplain soils of Bangladesh**
Das S., Ali M. M., Rahman M. H., Khan M. R., Hossain A., EL Sabagh A., BARUTÇULAR C., Akdeniz H.
BULGARIAN JOURNAL OF AGRICULTURAL SCIENCE, vol.24, no.6, pp.992-1003, 2018 (ESCI)
- VII. **SUSTAINABLE MAIZE (*Zea mays* L.) PRODUCTION UNDER DROUGHT STRESS BY UNDERSTANDING ITS ADVERSE EFFECT, SURVIVAL MECHANISM AND DROUGHT TOLERANCE INDICES**
EL SABAGH A., Hossain A., BARUTÇULAR C., Khaled A. A., Fahad S., Folake B A., Islam M. S., Disna R., KIZILGEÇİ F., Yadav G. S., et al.
Journal of Experimental Biology and Agricultural Sciences, vol.6, no.2, pp.282-295, 2018 (Scopus)
- VIII. **Evaluation of turmeric-mung bean intercrop productivity through competition functions**
ISLAM M. R., ALAM M. R., Elsabagh A., BARUTÇULAR C., Ratnasekera D., KIZILGEÇİ F., Islam M. S.
Acta agriculturae Slovenica, vol.111, no.1, pp.199, 2018 (Scopus)
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