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Education Information

Doctorate, Cukurova University, Ziraat Fakültesi, Bahçe Bitkileri, Turkey 2003 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı Karpuz Genotiplerinin SSR ve SRAP Markörleri ile Karakterizasyonu ve Fusarium Solgunluğu (*Fusarium oxysporum* f.sp. *niveum*)'na Dayanımlarının Moleküler ve Klasik Yöntemlerle Araştırılması, Cukurova University, Ziraat Fakültesi, Bahçe Bitkileri, 2010

Postgraduate, Bazı Karpuz Çeşit ve Tiplerinin Karakterizasyonu, Cukurova University, Ziraat Fakültesi, Bahçe Bitkileri, 2003

Research Areas

Agricultural Sciences, Agriculture, Garden Plants, Vegetable Breeding and Breeding

Academic Titles / Tasks

Associate Professor, Cukurova University, Ziraat Fakültesi, Bahçe Bitkileri, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Haploid induction through ovary culture in cucumber**
Nyirahabimana F., SOLMAZ İ.
In Vitro Cellular and Developmental Biology - Plant, 2024 (SCI-Expanded)
- Cutting-Edge of Genotyping by Sequencing (GBS) for Improving Drought and Salinity Stress**

Tolerance in Watermelon (*Citrullus lanatus* L.): A Review

Nyirahabimana F., SOLMAZ İ.

Plant Molecular Biology Reporter, 2024 (SCI-Expanded)

- III. **Applied Biotechnological Approaches for Reducing Yield Gap in Melon Grown Under Saline and Drought Stresses: an Overview**
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JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION, vol.23, no.1, pp.139-151, 2023 (SCI-Expanded)
- IV. **Recent status of Genotyping by Sequencing (GBS) Technology in cucumber (*Cucumis sativus* L.): a review**
Nyirahabimana F., Shimira F., Zahid G., SOLMAZ İ.
MOLECULAR BIOLOGY REPORTS, vol.49, no.6, pp.5547-5554, 2022 (SCI-Expanded)
- V. **Nitrogen and boron nutrition in grafted watermelon II: Impact on nutrient accumulation in fruit rind and flesh**
Gülüt K. Y., Duymuş E., Solmaz İ., Torun A.
PLOS ONE, vol.16, no.5, 2021 (SCI-Expanded)
- VI. **Genetic Analysis of Root-to-Shoot Signaling and Rootstock-Mediated Tolerance to Water Deficit in Tomato**
Asins M. J., Albacete A., Martinez-Andujar C., ÇELİKTOPUZ E., SOLMAZ İ., SARI N., Perez-Alfocea F., Dodd I. C., Carbonell E. A., TOPÇU S.
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- VII. **Rootstock capacity in improving production and quality of triploid watermelon seeds**
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- VIII. **HYBRID PERFORMANCE AND HETEROSIS IN MINI-WATERMELONS**
SOLMAZ İ., SARI N., Kombo M. D., Pamuk S., Gocmen M., Simsek I.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.1, pp.393-401, 2018 (SCI-Expanded)
- IX. **Preliminary studies of genom-wide association mapping for some selected morphological characters of watermelons**
Yagcioglu M., GÜLŞEN O., YETİŞİR H., SOLMAZ İ., SARI N.
SCIENTIA HORTICULTURAE, vol.210, pp.277-284, 2016 (SCI-Expanded)
- X. **Genetic Characterization of Turkish Snake Melon (*Cucumis melo* L. subsp. *melo flexuosus* Group) Accessions Revealed by SSR Markers**
SOLMAZ İ., Kacar Y. A., ŞİMŞEK Ö., SARI N.
BIOCHEMICAL GENETICS, vol.54, no.4, pp.534-543, 2016 (SCI-Expanded)
- XI. **The Andromonoecious Sex Determination Gene Predates the Separation of *Cucumis* and *Citrullus* Genera**
BOUALEM A., LEMHEMDI A., SARI M., PIGNOLY S., TROADEC C., ABOU CHOUCHA F., SOLMAZ İ., SARI N., DOGIMONT C., BENDAHMANE A.
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- XII. **Genetic analyses of Turkish watermelons based on SRAP markers**
Yagcioglu M., GÜLŞEN O., SOLMAZ İ., YETİŞİR H., SARI N.
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- XIII. **Effect of different irradiation sources and doses on haploid embryo induction in Altinbas (*Cucumis melo* L. var. *inodorus*) melons**
DAL B., SARI N., SOLMAZ İ.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.4, pp.552-559, 2016 (SCI-Expanded)
- XIV. **MORPHOLOGICAL CHARACTERIZATION OF *Cyclamen* sp GROWN NATURALLY IN TURKEY: PART II**
ÇÜRÜK P., SÖĞÜT Z., İzgu T., Sevindik B., TAGIPUR E. M., da Silva J. A. T., Serce S., SOLMAZ İ., Kacar Y. A., MENDİ N. Y.
ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS, vol.15, no.5, pp.205-224, 2016 (SCI-Expanded)
- XV. **Genetic diversity within Turkish watermelon [*Citrullus lanatus* (Thunb.) Matsumura & Nakai]**

accessions revealed by SSR and SRAP markers

SOLMAZ İ., AKA KAÇAR Y., SARI N., ŞİMŞEK Ö.

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.3, pp.407-419, 2016 (SCI-Expanded)

- XVI. **Genetic diversity, population structure and linkage disequilibrium among watermelons based on peroxidase gene markers**
Ocal N., AKBULUT M., GÜLŞEN O., YETİŞİR H., SOLMAZ İ., SARI N.
SCIENTIA HORTICULTURAE, vol.176, pp.151-161, 2014 (SCI-Expanded)
- XVII. **Volatile organic compounds in watermelon (*Citrullus lanatus*) grafted onto 21 local and two commercial bottle gourd (*Lagenaria siceraria*) rootstocks**
Guler Z., Candir E., Yetisir H., Karaca F., SOLMAZ İ.
JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY, vol.89, no.4, pp.448-452, 2014 (SCI-Expanded)
- XVIII. **The effect of plant density and pruning on yield and some agronomic characters of pepino (*Solanum muricatum* Ait.)**
SOLMAZ İ., Suyum K., Caymaz G., SARI N.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.2, pp.1145-1150, 2012 (SCI-Expanded)
- XIX. **Genetic diversity among melon accessions (*Cucumis melo*) from Turkey based on SSR markers**
Kacar Y. A., ŞİMŞEK Ö., SOLMAZ İ., SARI N., Mendi Y. Y.
GENETICS AND MOLECULAR RESEARCH, vol.11, no.4, pp.4622-4631, 2012 (SCI-Expanded)
- XX. **Rootstock potential of Turkish *Lagenaria siceraria* germplasm for watermelon: plant growth, yield and quality**
Karaca F., YETİŞİR H., SOLMAZ İ., Candir E., Kurt S., SARI N., Guler Z.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.36, no.2, pp.167-177, 2012 (SCI-Expanded)
- XXI. **Comparison of in vivo and in vitro Colchicine Application for Production of Dihaploid 'Kirkagac' and 'Yuva Hasanbey' Melons**
SOLMAZ İ., SARI N., GURSOY I., KASAPOĞLU S.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.70, pp.15717-15723, 2011 (SCI-Expanded)
- XXII. **The effect of salinity on stomata and leaf characteristics of dihaploid melon lines and their hybrids**
SOLMAZ İ., SARI N., DASGAN Y., AKTAS H., YETİŞİR H., UNLU H.
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- XXIII. **The genetic characterization of Turkish watermelon (*Citrullus lanatus*) accessions using RAPD markers**
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GENETIC RESOURCES AND CROP EVOLUTION, vol.57, no.5, pp.763-771, 2010 (SCI-Expanded)
- XXIV. **Morphological evaluation and comparison of Hungarian and Turkish melon (*Cucumis melo* L.) germplasm**
SZAMOSI C., SOLMAZ İ., SARI N., BARSONY C.
SCIENTIA HORTICULTURAE, vol.124, no.2, pp.170-182, 2010 (SCI-Expanded)
- XXV. **Determination of gene escape and fruit quality characteristics in transgenic melon (*Cucumis melo* L. var. *inodorus*)**
Mendi Y. Y., SARI N., AKYILDIZ A., SOLMAZ İ., ÜNEK C., ÖZKAYA O., SERCE S.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.34, no.2, pp.135-143, 2010 (SCI-Expanded)
- XXVI. **Morphological characterization of Hungarian and Turkish watermelon (*Citrullus lanatus* (Thunb.) Matsum. et Nakai) genetic resources**
SZAMOSI C., SOLMAZ İ., SARI N., BARSONY C.
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- XXVII. **Characterization of watermelon (*Citrullus lanatus*) accessions collected from Turkey for morphological traits**
SOLMAZ İ., SARI N.
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Articles Published in Other Journals

- I. **Determination of the Effect of Boron Application on Stoma Density and Size in Melon with a New Stoma Examination Method**
ADIGÜZEL P., TEPE M., ŞİMŞEK F., SOLMAZ İ., KARABIYIK Ş.
Alatarım, vol.23, no.1, pp.39-46, 2024 (Peer-Reviewed Journal)
- II. **Kavunda Bor Uygulamasının Stoma Yoğunluk ve İriliğine Etkisinin Yeni Bir Stoma İnceleme Yöntemi İle Belirlenmesi**
Adıgüzel P., Tepe M., Şimşek F., SOLMAZ İ., KARABIYIK Ş.
Alatarım, vol.23, no.1, pp.39-46, 2024 (Peer-Reviewed Journal)
- III. **Prevailing situation of anther and ovary cultures in cucumber haploid induction**
Nyirahabimana F., SOLMAZ İ.
Vegetos, 2024 (Scopus)
- IV. **Kavun Bitkisinde Farklı Çiçeklenme Yapısı ve Tozlama Saatinin Tohum Kalitesi Üzerine Etkileri**
Pınar A., KARABIYIK Ş., SOLMAZ İ.
Çukurova Tarım ve Gıda bilimleri dergisi (Online), 2023 (Peer-Reviewed Journal)
- V. **Kavunda Farklı Çiçeklenme Yapısı ve Tozlama Saatinin Çiçek ve Tohum Kalitesi Üzerine Etkileri**
Adıgüzel P., KARABIYIK Ş., SOLMAZ İ.
Çukurova Tarım ve Gıda bilimleri dergisi (Online), vol.38, no.2, pp.351-365, 2023 (Peer-Reviewed Journal)
- VI. **Karpuzda (Citrullus lanatus L.) Bor Uygulamasının Çiçek Tozu Kalitesi, Miktarı ve Çim Borusu Gelişimine Etkisi**
Adıgüzel P., KARABIYIK Ş., NAMLI M., SOLMAZ İ.
Alatarım, vol.22, no.2, pp.76-85, 2023 (Peer-Reviewed Journal)
- VII. **Türkiye’de Bitki Genetik Kaynaklarının Mevcut Durumu ve Korunması**
Adıgüzel P., SOLMAZ İ.
Türkiye Tarımsal Araştırmalar Dergisi, vol.10, no.3, pp.352-360, 2023 (Peer-Reviewed Journal)
- VIII. **Açıkta ve Serada Yetiştirilen Altınbaş Kavun Hibritlerinin Heterozis Performansları**
NAMLI M., BİÇER İ., SOLMAZ İ., SARI N.
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- IX. **The Effects of Grafting on Plant, Fruit and Seed Quality in Cantaloupe (Cucumis melo L. var. cantalupensis) Melons**
Adıgüzel P., NAMLI M., Nyirahabimana F., SOLMAZ İ., SARI N.
MDPI AG, vol.2, pp.1-14, 2023 (Peer-Reviewed Journal)
- X. **Comparison on flower, fruit and seed characteristics of tetraploid and diploid watermelons (Citrullus lanatus Thunb. Matsum. and Nakai)**
Adıgüzel P., SOLMAZ İ., KARABIYIK Ş., SARI N.
International Journal of Agriculture, Environment and Food Sciences, vol.6, no.4, pp.704-710, 2022 (Peer-Reviewed Journal)
- XI. **Effects of Cucurbita, Lagenaria and Citrullus rootstocks on pollen and fruit characters, seed yield and quality of F1 hybrid watermelon**
ARAS V., SARI N., SOLMAZ İ.
International Journal of Agriculture, Environment and Food Sciences, vol.6, no.4, pp.683-693, 2022 (Peer-Reviewed Journal)
- XII. **Turpta (Raphanus sativus L.) Farklı Yumru Ağırlığı ve Bor Gübrelemesinin Bitki Gelişimi, Bakla Özellikleri, Tohum Verimi, Çimlenme ve Çıkış Üzerine Etkileri**
NAMLI M., Adıgüzel P., SOLMAZ İ.
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.10, no.7, pp.1286-1292, 2022 (Peer-Reviewed Journal)
- XIII. **Aşılamanın Melez Karpuz Tohumlarında Çimlenme ve Çıkış Özellikleri Üzerine Etkileri**
Aras V., SARI N., SOLMAZ İ.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, pp.3372-3382, 2021 (Peer-Reviewed Journal)

- XIV. **Farklı Anaçlar Üzerine Aşıl原因an Kırkağaç Kavunlarının Meyve Özelliklerinin Araştırılması**
NAMLI M., KASAPOĞLU S., SOLMAZ İ.
Çukurova Tarım ve Gıda bilimleri dergisi (Online), vol.36, no.2, pp.301-308, 2021 (Peer-Reviewed Journal)
- XV. **Effects of Grafting on Germination and Emergence Characteristics of Hybrid Watermelon Seeds**
ARAS V., SOLMAZ İ., SARI N.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, pp.3372-3382, 2021 (Peer-Reviewed Journal)
- XVI. **Determination of Some Agronomic and Fruit Quality Characteristics of Some Watermelon Accessions from Turkish Watermelon Germplasm**
Atlı E., SOLMAZ İ., SARI N., KELEBEK H.
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.9, no.8, pp.1322-1328, 2021 (Peer-Reviewed Journal)
- XVII. **Farklı Anaçların Aşılı Hıyarlarda (Cucumis sativus L.) Bitki Gelişimi, Verimve Meyve Özelliklerine Etkileri**
DAMAR E., SOLMAZ İ.
Çukurova Tarım ve Gıda bilimleri dergisi (Online), vol.35, no.2, pp.99-106, 2020 (Peer-Reviewed Journal)
- XVIII. **EFFECT OF ROOTSTOCKS ON POLLEN PRODUCTION, VIABILITY AND GERMINATION IN GRAFTED TETRAPLOID AND DIPLOID WATERMELON**
SOLMAZ İ., Kombo M. D., Hussein S., NAMLI M., SARI N.
International Journal of Agricultural and Natural Sciences, vol.13, no.3, pp.181-186, 2020 (Peer-Reviewed Journal)
- XIX. **Farklı anaçlar üzerine aşılamanın karpuzun bitki büyümesi üzerine etkileri**
Aras V., SARI N., SOLMAZ İ.
Alatarım, vol.19, no.2, 2020 (Peer-Reviewed Journal)
- XX. **Effects of grafting onto different rootstocks on watermelon plant growths**
ARAS V., SARI N., SOLMAZ İ.
Alatarım, vol.19, no.2, pp.57-65, 2020 (Peer-Reviewed Journal)
- XXI. **Karpuz Genetik Kaynaklarında Ovül-Ovaryum Kültürü Yöntemiyle Haploid Bitki Elde Edilmesi**
YILDIZ Ç., SOLMAZ İ.
Çukurova Tarım ve Gıda bilimleri dergisi (Online), vol.35, no.1, pp.35-42, 2020 (Peer-Reviewed Journal)
- XXII. **Karpuz Melezlerinde Tohum Kabuk Rengi Kalıtımının Belirlenmesi**
YALÇIN S., SARI N., SOLMAZ İ.
Alatarım, vol.19, no.1, pp.34-41, 2020 (Peer-Reviewed Journal)
- XXIII. **Determination of the seed coat color inheritance in some watermelon hybrids**
YALÇIN S., SARI N., SOLMAZ İ.
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- XXIV. **Katlanmış Haploidi Tekniği ile Geliştirilen Bazı Kırkağaç Kavun (Cucumis melo L. var.inodorus) Melezlerinin Tarımsal Özellikleri**
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Alatarım, vol.2, no.17, pp.118-127, 2018 (Peer-Reviewed Journal)
- XXV. **Agronomic performance of some Kirkagac melon (Cucumis melo L. var. inodorus) hybrids developed by doubled haploidy technique.**
SARI N., SOLMAZ İ., BIÇER İ., NAMLI M.
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- XXVI. **Effects of ABA Application on Plant Growth, Sex Expression and Pollen Quality in Melon**
SOLMAZ İ., kartal e., SARI N.
Turkish Journal of Agriculture-Food Science and Tech, vol.6, no.9, pp.1224-1228, 2018 (Peer-Reviewed Journal)
- XXVII. **Effect of Different Doses of Nitrogen and Potassium Fertilization on Yield and Nutrient Uptake in Grafted Watermelon Growing in Çukurova Region Conditions**
Alkan Torun A., Solmaz İ., Duymuş E., Aydın O., Cenkseven Ş., Yalçınkaya A., Gülüt K. Y., Torun M. B.
International Journal of Agricultural and Natural Sciences, vol.1, no.3, pp.228-232, 2018 (Peer-Reviewed Journal)
- XXVIII. **Çekirdekli Mini Karpuz Melezlerinin Bazı Tarımsal Özelliklerinin Belirlenmesi.**
bağ m., SARI N., SOLMAZ İ., göçmen m., şimşek i.

- Akademik Ziraat Dergisi, 2017 (Peer-Reviewed Journal)
- XXIX. **Farklı Dozlarda Kükürt Uygulamasının Turp (*Raphanus sativus* L.)'ta Verim ve Kalite Üzerine Etkileri**
SOLMAZ İ., akbaş f., erköse h., SARI N., dal b.
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- XXX. **Characterization of some agronomic traits and β -carotene contents of orange fleshed Altinbas melon dihaploid lines**
göçmen m., aydın e., şimşek i., SARI N., SOLMAZ İ., gökseven a.
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- XXXI. **Çekirdeksiz Karpuzlarda Bitki Gelişimi Verim ve Meyve Özelliklerinde Heterozis**
SARI N., TOPAL Y., GÖÇMEN M., ŞİMŞEK İ., SOLMAZ İ.
Bahçe, 2016 (Peer-Reviewed Journal)
- XXXII. **Karadeniz Bölgesi'nden toplanan farklı tohum renklerine sahip fasulyelerde tohum ve bakla özellikleri**
SARI N., SOLMAZ İ., PAMUK S., ÇETİN M. B.
Akademik Ziraat Dergisi, vol.5, no.1, pp.21-28, 2015 (Peer-Reviewed Journal)
- XXXIII. **Morphological characterization of Korean and Turkish watermelon germplasm**
Huh Y. C., Choi H. S., SOLMAZ İ., SARI N., Kim S.
Korean Journal of Agricultural Science, vol.41, no.4, pp.309-314, 2014 (Peer-Reviewed Journal)
- XXXIV. **The characterization of some watermelon genotypes by SSR and SRAP markers**
SOLMAZ İ., AKA KAÇAR Y., SARI N.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.29, no.2, pp.58-68, 2013 (Peer-Reviewed Journal)
- XXXV. **Variations in the response of different lines and hybrids of melon (*Cucumis melo* var. *cantaloupensis*) under salt stress**
AKTAŞ H., DAŞGAN H. Y., YETİŞİR H., SARI N., KOÇ S., EKİCİ B., SOLMAZ İ., ÜNLÜ H., ALONİ B.
. American-Eurasian Journal of Agricultural and Environmental Science, vol.5, no.4, pp.485-493, 2009 (Peer-Reviewed Journal)
- XXXVI. **Determination of yield and some agronomic characteristics of melon cultivars developed by dihaploidization technique in glasshouse conditions**
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- XXXVII. **Transgenik Kırkağaç 637 kavun çeşidinde morfolojik karakterizasyon**
YALÇIN MENDİ N. Y., SARI N., SOLMAZ İ., ÜNEK A. C., ELDOĞAN S., İPEK M., SERÇE S.
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- XXXVIII. **Transgenik Kırkağaç 637 kavun çeşidinde morfolojik karakterizasyon**
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- XXXIX. **The effects of plant densities on yield and root size in radish**
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Books & Book Chapters

- I. **Turp Yetiştiriciliği**
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in: Sebze Yetiştiriciliği, Gökhan Baktemur, Editor, İKSAD, Ankara, pp.305-334, 2023
- II. **Kavun Yetiştiriciliği**
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in: Sebze Yetiştiriciliği, Gökhan Baktemur, Editor, İKSAD, Ankara, pp.151-182, 2023
- III. **Melon (*Cucumis melo* L.): Genomics and Breeding**
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- IV. **Karpuz Yetiştiriciliği**
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in: Sebze Yetiştiriciliği, Gökhan Baktemur, Editor, İKSAD, Ankara, pp.105-132, 2023
- V. **Watermelon Genetic Resources and Diversity**
SARI N., SOLMAZ İ.
in: The Watermelon Genome, Sudip Kr. Dutta, Padma Nimmakayala, Umesh K. Reddy, Editor, springer, pp.23-26, 2023
- VI. **RECENT DEVELOPMENTS OF GRAFTING IN CUCURBITACEAE**
Adıgüzel P., Nyirahabimana F., SOLMAZ İ.
in: AGRICULTURAL PRACTICES AND SUSTAINABLE MANAGEMENT IN TÜRKİYE, Yusuf SOLMAZ, Korkmaz BELLİTÜRK, Editor, İKSAD, Ankara, pp.207-234, 2022
- VII. **AN OVERVIEW OF HAPLOID PLANT PRODUCTION IN CUCURBITS**
Nyirahabimana F., SOLMAZ İ., SARI N.
in: AGRICULTURAL PRACTICES AND SUSTAINABLE MANAGEMENT IN TÜRKİYE, Yusuf SOLMAZ, Korkmaz BELLİTÜRK, Editor, İKSAD, Ankara, pp.33-55, 2022
- VIII. **Karpuz Islahı**
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in: Sebze Islahı Cilt II: Cucurbitaceae (Kabakgiller), Kazım Abak, Ahmet Balkaya, Ş. Şebnem Ellialtıoğlu, Eftal Düzyaman, Editor, Gece Kitaplığı, Ankara, pp.281-322, 2021
- IX. **Double Haploids in Cucurbits**
SARI N., SOLMAZ İ.
in: Doubled Haploid Technology, John M. Walker, Editor, Humana Press, New York, pp.97-110, 2021
- X. **Kavun Islahı**
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H-Index (WoS): 10

H-Index (Scopus): 11

Congress and Symposium Activities

International Plant Breeding Congress, Attendee, Antalya, Turkey, 2013

10th EUCARPIA Meeting on Cucurbitaceae, Attendee, Antalya, Turkey, 2012
. Cucurbitaceae 2010, Attendee, Charleston, United States Of America, 2010
. 4th International Cucurbitaceae, Attendee, Changsha, China, 2009