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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-2843-2021

ScopusID: 55179420400

Yoksis Researcher ID: 114102

Education Information

Post Doctorate, Michigan State University, College of Agriculture & Natural Resources, Department of Plant, Soil and Microbial Sciences, United States Of America 2017 - 2018

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 2010 - 2014

Postgraduate, Manisa Celal Bayar University, Institute Of Science, Moleküler Biyoloji (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2005 - 2009

Undergraduate, Manisa Celal Bayar University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 2004 - 2008

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Tuz ve kuraklık stresi altında geliştirilmiş farklı fasulye (*Phaseolus vulgaris* L.) çeşitlerinde lea-3 geni mRNA ifade seviyelerinin kantitatif real-time pcr yöntemiyle incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), 2014

Postgraduate, İdyopatik jeneralize epilepsi ile EFHC1 genindeki 662 GA ve 685 TC polimorfizmi ilişkisinin araştırılması, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji (YI) (Tezli), 2010

Research Areas

Bioinformatics, Biotechnology, Molecular Biology and Genetics

Academic Titles / Tasks

Associate Professor, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2018 - Continues
Lecturer, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2011 - 2018
Research Assistant, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2008 - 2011

Academic and Administrative Experience

Enstitü Yönetim Kurulu Üyesi, Ankara University, Biyoteknoloji Enstitüsü, Biyoteknoloji Anabilim Dalı, 2023 - Continues
Deputy Head of Department, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2019 - Continues
Erasmus Program Department Coordinator, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2019 - 2022

Courses

Special Project I, Undergraduate, 2023 - 2024, 2022 - 2023
Special Project II, Undergraduate, 2022 - 2023, 2021 - 2022
Occupational Health and Safety 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Animal Biology Laboratory, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Occupational Health and Safety 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Genom, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Animal Biology, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Bitki Biyoteknolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Plant Biotechnology, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Introduction to Bioinformatics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Academic Presentation Skills, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Omiks Teknolojileri, Postgraduate, 2023 - 2024, 2022 - 2023
Plant Biology, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Plant Biology Laboratory, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Plant Physiology, Undergraduate, 2019 - 2020, 2018 - 2019
Plant Physiology Laboratory, Undergraduate, 2019 - 2020, 2018 - 2019
Animal Physiology Laboratory, Undergraduate, 2019 - 2020, 2018 - 2019
Animal Physiology, Undergraduate, 2019 - 2020, 2018 - 2019
Botanik, Undergraduate, 2016 - 2017, 2015 - 2016

Advising Theses

Büyük İ., *P. vulgaris*'te ABİYOTİK STRES TOLERANSI İÇİN GENOM ÇAPINDA YAKLAŞIMLAR: GATA GENİNE ÖZGÜ BİYOİNFORMATİK ANALİZLER VE EVRİMSEL SÜREÇLER, Postgraduate, Z.ŞAFAK(Student), 2023
Büyük İ., *Phaseolus vulgaris* L. BİTKİSİNDE TALE GEN AİLESİ ÜYELERİNİN GENOM DÜZEYİNDE TANIMLANMASI, KARAKTERİZASYONU VE ABİYOTİK STRES ALTINDAKİ ROLLERİNİN ARAŞTIRILMASI, Postgraduate, F.NUR(Student), 2023
Büyük İ., IQD GEN AİLESİNİN FASULYE BİTKİSİNDE (*Phaseolus vulgaris* L.) BİYOİNFORMATİK OLARAK DETAYLI KARAKTERİZASYONU ve ABİYOTİK STRESLE İLİŞKİSİNİN mRNA DÜZEYİNDE ARAŞTIRILMASI, Postgraduate, T.KIRLIOĞLU(Student), 2023
Büyük İ., EXPANSİN GEN AİLESİNİN FASULYE (*Phaseolus vulgaris* L.) BİTKİSİNDE BİYOİNFORMATİK KARAKTERİZASYONU VE ABİYOTİK STRES İLE İLİŞKİSİNİN ARAŞTIRILMASI, Postgraduate, M.NUR(Student), 2023
Büyük İ., Fasulye (*Phaseolus vulgaris* L.) bitkisinde Trihelix gen ailesi üyelerinin genom düzeyinde tanımlanması ve çeşitli abiyotik stresler sırasında ifade profilleri, Postgraduate, S.CAN(Student), 2022
BÜYÜK İ., Fasulye (*Phaseolus vulgaris* L.) bitkisinde WOX gen ailesi üyelerinin genom düzeyinde tanımlanması ve tuz

stresi sırasında ifade profilleri, Postgraduate, S.EZGİ(Student), 2021

BÜYÜK İ., Bioinformatic characterization of malate dehydrogenase (MDH) gene family in common bean plant (*Phaseolus vulgaris* L.) and investigation of its relationship with salt stress, Postgraduate, S.YILDIZ(Student), 2020

Jury Memberships

Post Graduate, Post Graduate, Ankara Üniversitesi, September, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, August, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, July, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, March, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, March, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Omics approaches to understand the <i>MADS-box</i> gene family in common bean (<i>Phaseolus vulgaris</i> L.) against drought stress**
Okay A., Kirlioglu T., Durdu Y. S., Akdeniz S. S., BÜYÜK İ., ARAS E. S.
PROTOPLASMA, vol.261, no.4, pp.709-724, 2024 (SCI-Expanded)
- II. **Omics data-based identification of HSP70 gene family in *C. sativa* under drought stress**
BÜYÜK İ., Okay A., İlhan E., Aytaç S., Şafak S. A., ARAS E. S.
South African Journal of Botany, vol.167, pp.94-107, 2024 (SCI-Expanded)
- III. **Characterization of <i>Two-Component System</i> gene (<i>TCS</i>) in melatonin-treated common bean under salt and drought stress**
Kasapoglu A. G., İLHAN E., AYDIN M., YIĞİDER E., İNAL B., BÜYÜK İ., TAŞPINAR M. S., ÇİLTAŞ A., AĞAR G.
PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, vol.29, pp.1733-1754, 2023 (SCI-Expanded)
- IV. **Genome-Wide Analysis and Characterization of SABATH Gene Family in *Phaseolus vulgaris* Genotypes Subject to Melatonin under Drought and Salinity Stresses**
Aygören A. S., Güneş E., Muslu S., Kasapoğlu A. G., YIĞİDER E., AYDIN M., BÜYÜK İ., İlhan E.
Plant Molecular Biology Reporter, vol.41, no.2, pp.242-259, 2023 (SCI-Expanded)
- V. **E2F/DP protein family in beans: Identification, evolution and expression analysis within the genome**
Okay A., Amirinia K., BÜYÜK İ.
South African Journal of Botany, vol.157, pp.122-134, 2023 (SCI-Expanded)
- VI. **Defining the roles of PvMDH genes in response to salt stress and detailed characterization of the gene family**
Yildiz S., Okay A., Büyük İ.
JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY, vol.31, no.2, pp.380-393, 2022 (SCI-Expanded)
- VII. **The genome-wide characterization of WOX gene family in *Phaseolus vulgaris* L. during salt stress**
Akbulut S. E., Okay A., Aksoy T., ARAS E. S., BÜYÜK İ.
PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, vol.28, no.6, pp.1297-1309, 2022 (SCI-Expanded)
- VIII. **Identification and Characterization of SRS Genes in *Phaseolus vulgaris* Genome and Their Responses Under Salt Stress**
BÜYÜK İ., Okay A., Aras S.
BIOCHEMICAL GENETICS, vol.60, no.2, pp.482-503, 2022 (SCI-Expanded)
- IX. ***Dianthus yilmazii* (Caryophyllaceae), a new species from central Turkey**
HAMZAOĞLU E., KOÇ M., BÜYÜK İ.
KEW BULLETIN, vol.76, no.3, pp.523-530, 2021 (SCI-Expanded)

- X. **Identification and characterization of the Pvul-GASA gene family in the Phaseolus vulgaris and expression patterns under salt stress**
BÜYÜK İ., Okay A., Gorska M., İlhan E., ARAS E. S.
TURKISH JOURNAL OF BOTANY, vol.45, no.1, pp.655-690, 2021 (SCI-Expanded)
- XI. **Transcriptome wide characterization of water deficit responsive grape mTERF transcription**
İNAL B., İLHAN E., BÜYÜK İ., ALTINTAŞ S.
JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY, vol.29, no.1, pp.102-113, 2020 (SCI-Expanded)
- XII. **Eastern Anatolian apples with a unique population structure are genetically different from Anatolian apples**
Oz M. H., BÜYÜK İ., AKPINAR A. E., Ozmen C. Y., Kazan K., Vurgun H., Bacaksiz A., Cukadar K., Unlu H. M., ERGÜL A.
GENE, vol.723, 2020 (SCI-Expanded)
- XIII. **MORPHOLOGICAL, PALYNOLOGICAL AND PHYLOGENETIC RELATIONSHIPS OF GLAUCIUM MILL. IN TURKEY**
KILIÇ F. M., Yildiz K., Batir M. B., Kilic M., BÜYÜK İ.
BANGLADESH JOURNAL OF PLANT TAXONOMY, vol.26, no.2, pp.259-268, 2019 (SCI-Expanded)
- XIV. **Genome-wide identification of CAMTA gene family members in Phaseolus vulgaris L. and their expression profiling during salt stress**
BÜYÜK İ., İLHAN E., Sener D., Ozsoy A. U., Aras S.
MOLECULAR BIOLOGY REPORTS, vol.46, no.3, pp.2721-2732, 2019 (SCI-Expanded)
- XV. **Morphological and Molecular Evidence for a New Species of Bolanthus (Caryophyllaceae) from Turkey**
Koc M., HAMZAOĞLU E., BÜYÜK İ.
SYSTEMATIC BOTANY, vol.44, no.1, pp.189-196, 2019 (SCI-Expanded)
- XVI. **Determination of Usnic Acid Responsive miRNAs in Breast Cancer Cell Lines**
Kilic N., Islakoglu Y. O., BÜYÜK İ., GÜR DEDEOĞLU B., CANSARAN DUMAN D.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.19, no.12, pp.1463-1472, 2019 (SCI-Expanded)
- XVII. **Evaluation of in vitro Anticancer Activity of Vulpinic Acid and its Apoptotic Potential Using Gene Expression and Protein Analysis**
Kilic N., DERİCİ M. K., BÜYÜK İ., Aydin S. S., Aras S., CANSARAN DUMAN D.
INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH, vol.52, no.4, pp.626-634, 2018 (SCI-Expanded)
- XVIII. **Transcriptome - Scale characterization of salt responsive bean TCP transcription factors**
İLHAN E., BÜYÜK İ., İNAL B.
GENE, vol.642, pp.64-73, 2018 (SCI-Expanded)
- XIX. **GENOME-WIDE IDENTIFICATION AND CHARACTERIZATION OF THE SBP GENE FAMILY IN EUCALYPTUS GRANDIS**
BÜYÜK İ.
APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, vol.16, no.5, pp.6181-6193, 2018 (SCI-Expanded)
- XX. **Bolanthus sandrasicus sp nov (Caryophyllaceae) from Turkey**
HAMZAOĞLU E., Koc M., BÜYÜK İ.
NORDIC JOURNAL OF BOTANY, vol.35, no.5, pp.563-568, 2017 (SCI-Expanded)
- XXI. **Genome-wide analysis of Phaseolus vulgaris C2C2-YABBY transcription factors under salt stress conditions**
İNAL B., BÜYÜK İ., İLHAN E., Aras S.
3 BIOTECH, vol.7, 2017 (SCI-Expanded)
- XXII. **Genome-wide in silico identification, characterization and transcriptional analysis of the family of growth-regulating factors in common bean (Phaseolus vulgaris l.) subjected to polyethylene glycol-induced drought stress**
Bueyuek İ., Aras S.
ARCHIVES OF BIOLOGICAL SCIENCES, vol.69, no.1, pp.5-14, 2017 (SCI-Expanded)
- XXIII. **Dianthus ucarii (Caryophyllaceae): a new species from the northwest of Turkey**

- HAMZAOĞLU E., Koc M., BÜYÜK İ.
TURKISH JOURNAL OF BOTANY, vol.41, no.5, pp.486-492, 2017 (SCI-Expanded)
- XXIV. **Genome-wide identification of salinity responsive HSP70s in common bean**
BÜYÜK İ., İNAL B., İLHAN E., Tanriseven M., Aras S., ERAYMAN M.
MOLECULAR BIOLOGY REPORTS, vol.43, no.11, pp.1251-1266, 2016 (SCI-Expanded)
- XXV. **EXPRESSION OF CTFAD2 GENE FOR EARLY SELECTION IN SAFFLOWER OLEIC/LINOLEIC OIL CONTENT**
BÜYÜK İ., Bolukbasi E., Aras S.
JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.26, no.5, pp.1383-1388, 2016 (SCI-Expanded)
- XXVI. **Varied Expression Pattern of the Small Heat Shock Protein Gene Encoding HSP17.7 against UVA, UVB, Cu²⁺ and Zn²⁺ Stresses in Sunflower**
Cansaran Duman D., Büyük İ., Aras E. S.
PLANT PROTECTION SCIENCE, vol.52, pp.99-106, 2016 (SCI-Expanded)
- XXVII. **Determination of the DNA changes in the artichoke seedlings (*Cynara scolymus* L.) subjected to lead and copper stresses**
BATIR M. B., Candan F., BÜYÜK İ.
PLANT SOIL AND ENVIRONMENT, vol.62, no.3, pp.143-149, 2016 (SCI-Expanded)
- XXVIII. **Effects of Lead (Pb) and Cadmium (Cd) Elements on Lipid Peroxidation, Catalase Enzyme Activity and Catalase Gene Expression Profile in Tomato Plants**
Soydam Aydin S., BÜYÜK İ., Gokce Gunduzer E., Buyuk B. P., KANDEMİR İ., CANSARAN DUMAN D., Aras S.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.22, no.4, pp.539-547, 2016 (SCI-Expanded)
- XXIX. **Roles of catalase (CAT) and ascorbate peroxidase (APX) genes in stress response of eggplant (*Solanum melongena* L.) against Cu²⁺ and Zn²⁺ heavy metal stresses**
Soydam-Aydin S., BÜYÜK İ., CANSARAN DUMAN D., Aras S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.12, 2015 (SCI-Expanded)
- XXX. **The determination of physiological and DNA changes in seedlings of maize (*Zea mays* L.) seeds exposed to the waters of the Gediz River and copper heavy metal stress**
BATIR M. B., CANDAN F., BÜYÜK İ., Aras S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.4, 2015 (SCI-Expanded)
- XXXI. **Presence of *Dianthus roseoluteus* Velen. (Caryophyllaceae) in Turkey and a New Species: *Dianthus macroflorus* Hamzaoglu**
HAMZAOĞLU E., Koc M., BÜYÜK İ., AKSOY A., Aydin S. S.
SYSTEMATIC BOTANY, vol.40, no.1, pp.208-213, 2015 (SCI-Expanded)
- XXXII. **A new serpentine-adapted carnation (Caryophyllaceae) from Turkey: *Dianthus serpentinus* sp nov.**
HAMZAOĞLU E., Koc M., BÜYÜK İ., AKSOY A., Aydin S. S.
NORDIC JOURNAL OF BOTANY, vol.33, no.1, pp.57-63, 2015 (SCI-Expanded)
- XXXIII. **Application of molecular markers to detect DNA damage caused by environmental pollutants in lichen species**
CANSARAN DUMAN D., Altunkaynak E., Aslan A., BÜYÜK İ., Aras S.
GENETICS AND MOLECULAR RESEARCH, vol.14, no.2, pp.4637-4650, 2015 (SCI-Expanded)
- XXXIV. **Screening of PvLEA3 gene mRNA expression levels with qRT-PCR in different bean varieties (*Phaseolus vulgaris* L.) subjected to salt and drought stress**
BÜYÜK İ., Aras S.
TURKISH JOURNAL OF BOTANY, vol.39, no.6, pp.1014-1020, 2015 (SCI-Expanded)
- XXXV. **Expression analysis of APX and CAT genes in eggplants subjected to Cu²⁺ and Zn²⁺ heavy metals**
BÜYÜK İ., Aydin S. S., Duman D. C., Aras S.
NEW BIOTECHNOLOGY, 2014 (SCI-Expanded)
- XXXVI. **The Effect of Oral Administration of *Pediococcus pentosaceus* OZF**
Onlu H., Sakyp Z., KIRAN F., Onlu H., BÜYÜK İ., Aras S., OSMANAĞAOĞLU Ö.
NEW BIOTECHNOLOGY, 2014 (SCI-Expanded)

- XXXVII. **Expression of SOD gene and evaluating its role in stress tolerance in NaCl and PEG stressed *Lycopersicum esculentum***
Aydin S., BÜYÜK İ., ARAS E. S.
TURKISH JOURNAL OF BOTANY, vol.38, no.1, pp.89-98, 2014 (SCI-Expanded)
- XXXVIII. **Molecular analysis of East Anatolian traditional plum and cherry accessions using SSR markers**
Oz M. H., Vurgun H., BAKIR M., BÜYÜK İ., Yuksel C., Unlu H. M., Cukadar K., Karadogan B., Kose O., Ergul A.
GENETICS AND MOLECULAR RESEARCH, vol.12, no.4, pp.5310-5320, 2013 (SCI-Expanded)
- XXXIX. **Relationships among lipid peroxidation, SOD enzyme activity, and SOD gene expression profile in *Lycopersicum esculentum* L. exposed to cold stress**
Aydin S. S., BÜYÜK İ., Aras S.
GENETICS AND MOLECULAR RESEARCH, vol.12, no.3, pp.3220-3229, 2013 (SCI-Expanded)
- XL. **Association Between Idiopathic Generalized Epilepsy and EFHC1 Gene Mutations of 662 G > A and 685 T > C**
BÜYÜK İ., Tugrul B., Yilmaz H., ONUR E., Vatandas G., Dogan Bozyigit F.
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.32, no.5, pp.1247-1253, 2012 (SCI-Expanded)
- XLI. **Characterization of stress induced by copper and zinc on cucumber (*Cucumis sativus* L.) seedlings by means of molecular and population parameters**
Aydin S. S., Gokce E., BÜYÜK İ., Aras S.
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.746, no.1, pp.49-55, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **EIN3/EIL (Ethylene Insensitive3 / Ethylene Insensitive3 Like) Protein Family in *Phaseolus vulgaris*: Identification, Evolution and Expression Analysis within the Genome**
Akbulut S. E., ŞAFAK Z., OKAY A., Amirinia K., BÜYÜK İ.
Türk Tarım - Gıda Bilim ve Teknoloji dergisi, vol.11, no.2, pp.215-226, 2023 (Peer-Reviewed Journal)
- II. **Detailed characterization of lectin genes in common bean using bioinformatic tools**
Okay A., Aras E. S., Büyük İ.
Communications/ Faculty of Sciences University of Ankara Series C: Biology and Geological Engineering and Geophysical Engineering, vol.31, no.1, pp.1-25, 2022 (Peer-Reviewed Journal)
- III. **Artificial meat production and future vision**
Farhoomand D., Okay A., Aras E. S., Büyük İ.
Food and Health, vol.8, no.3, pp.260-272, 2022 (Peer-Reviewed Journal)
- IV. **Bitkisel türevli aşular**
Okay A., Soydam Aydın S., BÜYÜK İ., ARAS E. S.
Biological Diversity and Conservation, vol.14, no.1, pp.167-174, 2021 (Peer-Reviewed Journal)
- V. **THE NIN-LIKE PROTEIN (NLP) FAMILY IN COMMON BEAN: GENOME-WIDE IDENTIFICATION, EVOLUTION AND EXPRESSION ANALYSIS**
BÜYÜK İ., Okay A., Aksoy T., ARAS E. S.
Communications Faculty of Sciences University of Ankara Series C-Biology, vol.30, no.1, pp.58-84, 2021 (Peer-Reviewed Journal)
- VI. **Green Synthesis of Silver Nanoparticles from *Phaseolus vulgaris* L. Extracts and Investigation of their Antifungal Activities**
EDİZ E., KURTAY G., KARACA B., BÜYÜK İ., GÖKDEMİR Ş. F., ARAS E. S.
Hacettepe Journal of Biology and Chemistry, 2020 (Peer-Reviewed Journal)
- VII. **Common Bean (*Phaseolus vulgaris* L.) DOF Transcription Factors Differentially Expressed under Salt Stress**
BÜYÜK İ., İNAL B., İLHAN E., ARAS E. S.
Commun.Fac.Sci.Univ.Ank.Series C, vol.28, no.1, pp.43-66, 2019 (Peer-Reviewed Journal)

- VIII. **Calocybe persicolor, A New Record for the Turkish Mycota**
AKATA I., BÜYÜK İ., Altuntas D., Sesli E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.4, pp.1097-1103, 2019 (ESCI)
- IX. **Inocybe mytiliodora: A New Record for Turkey**
Altuntas D., Sesli E., BÜYÜK İ., AKATA I.
KASTAMONU UNIVERSITY JOURNAL OF FORESTRY FACULTY, vol.19, no.3, pp.284-289, 2019 (ESCI)
- X. **Two New Spiny Species of Dianthus (Caryophyllaceae) from Turkey**
HAMZAOĞLU E., Koc M., BÜYÜK İ.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.21, no.4, pp.545-554, 2018 (ESCI)
- XI. **New insight into evaluation of DNA methylation levels with CRED RA technique in the genome of Lycopersicum esculentum subjected to NaCl and PEG**
ALTUNKAYNAK E., BÜYÜK İ., SOYDAM AYDIN S., ARAS E. S.
Biological Diversity and Conservation, vol.9, no.1, pp.163-171, 2016 (Peer-Reviewed Journal)
- XII. **Identification of some Lecideia, Porpidia and Lecidella species (lichen-forming ascomycetes) distributed in Turkey by sequence analysis of rDNA ITS region**
Başaran E., CANSARAN DUMAN D., BÜYÜK İ., Aras S.
Turk Hijyen ve Deneysel Biyoloji Dergisi, vol.72, no.1, pp.45-58, 2015 (Scopus)
- XIII. **Industrial and biotechnological applications of laccase enzyme Lakkaz enziminin endüstriyel ve biyoteknoloji alanında kullanımı**
Demiralp B., BÜYÜK İ., Aras S., CANSARAN DUMAN D.
Turk Hijyen ve Deneysel Biyoloji Dergisi, vol.72, no.4, pp.351-368, 2015 (Scopus)
- XIV. **RNA interference in plants Bitkilerde RNA interferans**
Aras S., Soydam-Aydin S., Fazlıoğlu A., CANSARAN DUMAN D., BÜYÜK İ., Derici K.
Turk Hijyen ve Deneysel Biyoloji Dergisi, vol.72, no.3, pp.255-262, 2015 (Scopus)
- XV. **A role of catalase CAT in detoxification of reactive oxygen species ROS in tomato Lycopersicum esculentum contaminated with manganese Mn²**
Semra S. A., BÜYÜK İ., Pelin Ç., ARAS E. S.
Biological Diversity and Conservation, 2013 (Peer-Reviewed Journal)
- XVI. **Molecular responses of plants to stress conditions Bitkilerin stres koşullarına verdiği moleküler cevaplar**
Büyük İ., Soydam-Aydin S., Aras S.
Turk Hijyen ve Deneysel Biyoloji Dergisi, vol.69, no.2, pp.97-110, 2012 (Scopus)

Books & Book Chapters

- I. **Genes and Evolution**
Aras E. S., Büyük İ.
in: Essential Biological Psychology, Ahmet ALTINDAĞ, Sercan ERDOĞAN, Editor, Nobel Yayın Dağıtım, Ankara, pp.1-398, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Musa acuminata'da VOZ TRANSKRİPSİYON FAKTÖR AİLESİNİN GENOM ÇAPLI ANALİZİ**
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