

Prof. ZEKİ KAYA

Personal Information

Office Phone: [+90 210 517 7](tel:+902105177)

Email: kayaz@metu.edu.tr

Web: <http://www.metu.edu.tr/~kayaz>

Address: ODTÜ, Biyolojik Bilimler Bölümü 06800 Ankara

International Researcher IDs

ScholarID: jtzxFvwAAAAJ

ORCID: 0000-0001-9381-9688

Publons / Web Of Science ResearcherID: C-5369-2015

ScopusID: 7004313478

Yoksis Researcher ID: 2053

Education Information

Doctorate, Oregon State University, United States Of America 1983 - 1987

Postgraduate, Oregon State University, United States Of America 1980 - 1983

Undergraduate, Istanbul University, Orman Fakültesi, Turkey 1974 - 1978

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Genetic variation in shoot-growth patterns of Douglas-fir populations from southwest Oregon, Oregon State University, 1987

Postgraduate, A statistical karyotype analysis of European black pine (*Pinus nigra* Arn.) seed sources, Oregon State University, 1983

Research Areas

Life Sciences, Molecular Biology and Genetics, Plant Molecular Genetics, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1995 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1990 - 1995

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1989 - 1990

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1988 - 1988

Research Assistant, Oregon State University, College of Forestry, Forest Science, 1984 - 1987

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2020 - 2020

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2020 - 2020

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2019 - 2019

Member of the Senate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2019 - 2019

Academic Performance D. Board Member, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2019 - 2019

Member of the Senate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2016 - 2017

Middle East Technical University, Graduate School of Natural and Applied Sciences, 2011 - 2014

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2006 - 2009

Courses

PLANT TISSUE CULTURE, Undergraduate, 2018 - 2019

Advising Theses

Kaya Z., Assessment of plant biodiversity from 3500-year-old ceramics recovered from the archaeological site of Kaymakçı using a metagenomics analytical approach, Postgraduate, A.ECEM(Student), 2024

Kaya Z., GENETIC CHARACTERIZATION OF ANCIENT CHARRED WHEAT FROM THE KAYMAKÇI ARCHAEOLOGICAL SITE, Postgraduate, G.TUNÇER(Student), 2023

Kaya Z., DIFFERENTIAL GENE EXPRESSION OF PNCES A4 IN POPULUS NIGRA, Postgraduate, R.AKKAD(Student), 2022

Kaya Z., Differential impacts of habitat fragmentation on genetic structure of two important riparian species (*Salix alba* & *Populus nigra*), Postgraduate, B.DURGUT(Student), 2022

Kaya Z., Genetic diversity pattern in female and male trees of *Populus euphratica* populations sampled from Göksu river basin, Postgraduate, N.NEBİOĞLU(Student), 2021

Kaya Z., Genetic diversity differences between parental and progeny population of *Populus euphratica* populations in a fragmented river ecosystem, Postgraduate, M.ÇELİK(Student), 2021

Kaya Z., Gürbüz M. F., UNESCO dünya mirası olabilecek Türkiye'deki doğal alanların belirlenmesi, Doctorate, Ş.ÜRÜN(Student), 2021

Kaya Z., GENETIC DIFFERENTIATION OF EUROPEAN BLACK POPLAR (*POPULUS NIGRA* L.) CLONES AND POPULATIONS WITH RESPECT TO SOME ENZYMES INVOLVED IN BIOSYNTHESIS OF CELLULOSE AND LIGNIN, Doctorate, B.TAŞKIRAN(Student), 2020

Kaya Z., Determining potential niche competition regions between Kazdagi fir (*Abies nordmanniana* subsp. *equi-trojani*) & Anatolian black pine (*Pinus nigra* subsp. *pallasiana*) and conservation priority areas under climate change by using maxent algorithm, Postgraduate, N.USTA(Student), 2019

KAYA Z., Genetic characterization of pear cultivars (*Pyrus communis*) in Çoruh river basin, Postgraduate, A.Çoban(Student), 2019

KAYA Z., Genetic diversity pattern in *Populus nigra* populations of two major river systems in Turkey, Doctorate, A.Çiftçi(Student), 2019

KAYA Z., Genetic structure of *Populus euphratica* populations in Goksu river ecosystem, Doctorate, Ç.KANSU(Student), 2018

KAYA Z., Genetic composition of four marginally located anatolian black pine (*Pinus nigra* Subsp. *Pallasiana*) populations

determined by ssr markers, Postgraduate, S.AYGÜN(Student), 2018

KAYA Z., Genetic structures of *Salix alba* and *Salix excelsa* populations from two major river systems in Turkey, Doctorate, F.ÖZDEMİR(Student), 2017

KAYA Z., Molecular phylogenetic relationships of six *Astragalus* L. sections (*Halicacabus*, *Megalocystis*, *Macrophyllum*, *Hymenostegis*, *Hymenocoleous*, *Poterion*) native to Turkey based on cpDNA and nDNA regions, Doctorate, M.ALEV(Student), 2017

KAYA Z., Determination of genetic diversity in *Salix caprea* populations from the Coruh river watershed, Postgraduate, Y.TOKDEMİR(Student), 2017

KAYA Z., The effects of sex ratio in estimation of genetic differentiation in *Populus nigra* populations, Postgraduate, B.YELMEN(Student), 2017

KAYA Z., Molecular phylogenetics of Turkish *Salix* L. species, Doctorate, P.ACAR(Student), 2017

KAYA Z., Molecular phylogenetic analyses of *Juniperus* L. species in turkey and their relations with other junipers based on cpdna, Doctorate, A.DEMET(Student), 2015

KAYA Z., Assessment of genetic diversity in *Picea orientalis* (L.) Link. in genetic resources by microsatellites, Doctorate, A.ÖZDİLEK(Student), 2015

KAYA Z., Molecular phylogenetic analyses of *Juniperus* L. species in Turkey and their relations with other junipers based on cpDNA, Doctorate, A.Demet(Student), 2015

KAYA Z., Genetic control of cellulose, lignin and glucose contents in European black poplar (*Populus nigra* L.) populations from Turkey, Postgraduate, B.TAŞKIRAN(Student), 2014

KAYA Z., Differential expression of cold resistant related genes in *Populus nigra* L. clones, Doctorate, E.ZEYBEK(Student), 2014

KAYA Z., Pattern of genetic diversity in Turkey oak (*Quercus cerris* L.) populations, Doctorate, Y.TÜMBİLEN(Student), 2014

KAYA Z., Transcriptional and physiological responses to drought stress in *Populus nigra* L., Doctorate, K.Yıldırım(Student), 2013

KAYA Z., Transcriptional and physiological responses of black poplar (*Populus nigra* L.) to drought stress, Doctorate, K.YILDIRIM(Student), 2013

KAYA Z., Genetic diversity of European black poplar (*Populus nigra*) populations from Turkey assessed by microsatellite DNA markers, Postgraduate, A.ÇİFTÇİ(Student), 2013

KAYA Z., Evolutionary relationships among *astragalus* species native to Turkey, Doctorate, A.DİZKIRICI(Student), 2012

KAYA Z., The phylogenetic analysis of *Picea orientalis* populations from Northeastern Turkey with respect to non-coding trn and matK regions of chloroplast genome, Postgraduate, A.MURAT(Student), 2011

KAYA Z., Molecular phylogenetics of Turkish *abies* (Pinaceae) species based on matK gene regions of chloroplast genome, Postgraduate, M.ALEV(Student), 2011

KAYA Z., Characterization of yellow rust and stem rust resistant and sensitive durum wheat lines at molecular level by using biophysical methods, Postgraduate, Ç.KANSU(Student), 2011

KAYA Z., Molecular phylogenetic position of Turkish *abies* (Pinaceae) based on noncoding trn regions of chloroplast genome, Postgraduate, F.ÖZDEMİR(Student), 2011

ÖNDE S., KAYA Z., Characterization of taxonomically related some Turkish oak (*Quercus* L.) species in an isolated stand: A morphometric analysis approach, Postgraduate, C.AKTAŞ(Student), 2010

KAYA Z., The phylogenetic analysis of *Pinus nigra* Arnold subspecies *pallasiana* varieties with respect to non-coding trn regions of chloroplast genome, Postgraduate, A.DEMET(Student), 2009

KAYA Z., Inheritance of wood specific gravity and its genetic correlation with growth traits in young *Pinus brutia* progenies, Postgraduate, K.YILDIRIM(Student), 2008

KAYA Z., The phylogenetic analysis of *liquidambar Orientalis* mill. varieties by comparing the non-coding trn regions of the chloroplast genome, Postgraduate, M.OR(Student), 2007

KAYA Z., Development of in vitro micropropagation techniques for saffron (*Crocus sativus* L.), Postgraduate, E.YILDIRIM(Student), 2007

KAYA Z., Genetic differentiation of *liquidambar Orientalis* mill. varieties with respect to matK region of chloroplast genome, Postgraduate, A.ÖZDİLEK(Student), 2007

KAYA Z., Comparative sequence analysis of the internal transcribed spacer 2 region of Turkish red pine (*Pinus brutia*

ten.) and natural aleppo pine (*Pinus halepensis* mill.) populations from Turkey, Postgraduate, C.ÖZGE(Student), 2007

ÖNDE S., KAYA Z., Induction of embryogenic tissue from immature zygotic embryos in *Pinus nigra* subspecies *pallasiana* LAMB., Postgraduate, Z.ÖZKURT(Student), 2006

KAYA Z., Genetic diversity of scald (*rhynchosporium secalis*) disease resistant and sensitive Turkish barley seed sources as determined with simple sequence repeats, Postgraduate, A.DİZKIRICI(Student), 2006

KAYA Z., Genetic characterization of *Pinus nigra* subspecies *pallasiana* varieties, natural populations (seed stands), seed orchards and plantations, Doctorate, B.NAZLIER(Student), 2005

KAYA Z., Induction of embryogenic tissue and development of somatic embryos in *Pinus brutia* TEN, Doctorate, T.YILDIRIM(Student), 2005

HAMAMCI H., KAYA Z., In vitro induction of growth and development of common juniper (*Juniperus communis* L.) from shoot and bud explants, Postgraduate, Z.AHSEN(Student), 2005

KAYA Z., Genetic characterization *pinus nigra* subspecies *pallasiana* varieties, natural populations (seed stands), seed orchards and plantations, Doctorate, B.Çengel(Student), 2005

KAYA Z., Characterisation of glutathione S-Transferase activity in Turkish red pine (*Pinus brutia* ten): Variation in environmentally cold stressed seedlings, Postgraduate, S.BOYOĞLU(Student), 2004

ÖNDE S., KAYA Z., Genetics a physiology of cold and drought resistance in Turkish red pine populations from Southern Turkey, Doctorate, G.KANDEMİR(Student), 2002

ÖNDE S., KAYA Z., Genetic composition of *Pinus brutia* ten. forests established with seeds from seed stands and orchards determined by using DNA markers, Doctorate, Y.İÇGEN(Student), 2002

KAYA Z., ÖNDE S., Genetic and physiology of cold and drought resistance in Turkish red pine (*Pinus brutia*, Ten.) populations from southern Turkey, Doctorate, G.Eren(Student), 2002

KAYA Z., ÖNDE S., The Pattern of genetic variation of *pinus brutia* ten populations from southern Turkey determined by nuclear SSR markers, Postgraduate, E.S.(Student), 2001

KAYA Z., Genetic characterization of 150 F6-inbred durum wheat lines derived from kunduru-1149 *cham-1 cross using molecular markers and economically important traits, Doctorate, B.Göçmen(Student), 2001

KAYA Z., Genetic characterization of 150 F6-inbred durum wheat lines derived from kunduru-1149xcham-1 cross using molecular markers and economically important traits, Doctorate, B.GÖÇMEN(Student), 2001

KAYA Z., ÖNDE S., The pattern of genetic variation of *pinus brutia* ten populations from Southern Turkey determined by nuclear SSR markers., Postgraduate, E.S.(Student), 2001

KAYA Z., Determination of airborne lead contamination in *Cichorium intybus* L. by flame atomic absorption spectrophotometry, Postgraduate, D.YAKUPOĞLU(Student), 2001

ÖNDE S., KAYA Z., The Genetic structure of *cedrus libani* A. rich populations dekermined by DNA markers, Postgraduate, G.CEREN(Student), 2000

KAYA Z., In vitro growth and development of sugar beet (*beta vulgaris* L.) from callus, ovule, suspension cells and protoplasts, Doctorate, S.GÜREL(Student), 2000

KAYA Z., ÖNDE S., The genetic structure of *Cedrus Libani* A. rich populations determined by DNA markers, Postgraduate, G.Ceren(Student), 2000

ÖNDE S., KAYA Z., The Impact of anthropogenic factors on the composition of genetic variation on *pinus brutia* ten. populations determined by DNA markers, Postgraduate, Y.LİSE(Student), 2000

KAYA Z., Genetic variation in adaptive seedling traits of natural populations of *abies equitrojani* aschers. et sint. from Kazdağı, Doctorate, F.FİLİZ(Student), 2000

KAYA Z., Effects of land use practices on steppe plant biodiversity implications for in situ conservation, Postgraduate, U.ZEYDANLI(Student), 1998

KAYA Z., Genetic structure of black pine (*Pinus nigra* arnold subspecies *pallasiana*) populations sampled from the Bolkar mountains, Postgraduate, A.AYPER(Student), 1998

KAYA Z., Pattern and magnitude of genetic diversity in *pinus nigra* subspecies *pallasiana* populations from Kazdağı, Postgraduate, B.ÇENGEL(Student), 1998

KAYA Z., ÖNDE S., Effects of land use practices on steppe plant biodiversity: implications for in situ conservation, Postgraduate, U.Zeydanlı(Student), 1998

KAYA Z., Pattern and magnitude of genetic diversity in *Pinus nigra* subspecies *pallasiana* populations from Kazdağı, Postgraduate, B.Çengel(Student), 1998

KAYA Z., ÖNDE S., The Patterns of genetic variation in Pinus Brutia Ten (Turkish Red Pine) seed stands: implications or in situ conservation, Postgraduate, H.Özer(Student), 1997

KAYA Z., ÖNDE S., Interactions between exogenously applied polyamines and salt tolerance of crop and tree species, Postgraduate, G.İnan(Student), 1997

KAYA Z., Interactions between exogenously applied polyamines and salt tolerance of crop tree species, Postgraduate, G.İNAN(Student), 1997

KAYA Z., The Patterns of genetic variation in pinus brutia ten (Turkish red pihe) seed stends: İmplications for in situ conservation, Postgraduate, H.ÖZER(Student), 1997

KAYA Z., Single tree genetic linkage mapping of taxusbrevifolia nutt. Based on random applied polymorphic DNA (RAPD) markers using DNA from haploid megagametophytes, Postgraduate, B.GÖÇMEN(Student), 1994

KAYA Z., Single tree genetic linkage mapping of Taxus brevifolia Nutt. Based on random amplified polymorphic DNA(RAPD) markers using DNA from haploid megagametophytes, Postgraduate, B.Göçmen(Student), 1994

KAYA Z., In vitro induction of adventitious bud, shoot and root formation from mature bud and cotyledonary tissues of Cedrus libani A.Rich, Postgraduate, N.Hosseyini(Student), 1994

KAYA Z., Biology of crocus olivieri subsp. olivieri, Postgraduate, F.Filiz(Student), 1994

KAYA Z., Biology of crocus olivieri subsp. Olivieri, Postgraduate, F.FİLİZ(Student), 1994

KAYA Z., In vitro induction of adventitious bud, shot and root formation from mature bud and cotyledonary tissues of cedrus libani a.rich, Postgraduate, N.HOSSEYİNİ(Student), 1994

KAYA Z., In vitro regeneration of Anatolian black pine (P.nigra subsp. pallsiana) from embryo tisuses, Postgraduate, F.GÖKÇE(Student), 1993

KAYA Z., In vitro generation of Anatolian Black Pine (P.nigra subsp. pallsiana) from embryo tissues, Postgraduate, F.Gökçe(Student), 1993

KAYA Z., Induction of callus from P.somniferum and P.orientale in vitro conditions, Postgraduate, V.SEYRANTEPE(Student), 1992

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, May, 2019

Award, The Head of Jury for L'Oreal Turkey -UNESCO for Women in Science Research Fellowship Program, UNESCO Türkiye Milli Komisyonu, January, 2019

Award, L'Oreal Turkey -UNESCO for Women in Science Research Fellowship Program, National Commission of Turkey for UNESCO and L'Oreal Turkey, September, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, July, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Genetic diversity of Salix caprea L. populations in fragmented habitats of northeastern Türkiye**
Tokdemir Y., Değirmenci F. Ö., Uluğ A., Acar P., KAYA Z.
Biologia, vol.79, no.7, pp.2013-2023, 2024 (SCI-Expanded)
- II. **Genetic analysis of village pear (Pyrus communis L.) cultivar populations in northeastern Türkiye**
Çoban A., Değirmenci F. Ö., Uluğ A., Ateş M. A., Yüksel E., Eminağaoğlu Ö., KAYA Z.
Plant Genetic Resources: Characterisation and Utilisation, 2024 (SCI-Expanded)
- III. **Association genetics of wood traits in European black poplar (Populus nigra L.)**
KAYA Z., TAŞKIRAN B., Uluğ A., Güvendiren A. D., Wegrzyn J. L., Neale D. B.
Tree Genetics and Genomes, vol.19, no.4, 2023 (SCI-Expanded)
- IV. **The ancient DNA and archaeobotanical analysis suggest cultivation of Triticum aestivum subsp. spelta at Yumuktepe and Yenikapi Pottery Neolithic sites in Turkey**
Degirmenci F. O., ULAŞ B., Kansu C., Uluğ A., Caneva I., Asal R., KAYA Z.

GENETIC RESOURCES AND CROP EVOLUTION, vol.70, no.2, pp.657-676, 2023 (SCI-Expanded)

- V. **The assessment of boron toxicity tolerance in F6 RILs of durum wheat [*Triticum turgidum* (L.) Tell. convar. durum (Desf.) Mackey]**
Göçmen Taşkın B., Özbek Ö., Keskin Şan S., Nachit M. M., KAYA Z.
Cereal Research Communications, vol.50, no.2, pp.227-235, 2022 (SCI-Expanded)
- VI. **Molecular phylogenetic analysis resolving the taxonomic discrepancies among *Salix* L. species naturally found in Turkey**
Acar P., Değirmenci F. Ö., DUMAN H., KAYA Z.
Dendrobiology, vol.87, pp.13-26, 2022 (SCI-Expanded)
- VII. **Phylogeography and phylogeny of genus *Quercus* L. (Fagaceae) in Turkey implied by variations of trnT (UGU) -L (UAA) -F (GAA) chloroplast DNA region**
Tekpinar A. D., AKTAŞ C., Kansu Ç., DUMAN H., KAYA Z.
Tree Genetics and Genomes, vol.17, no.5, 2021 (SCI-Expanded)
- VIII. **Updated-extended molecular time and molecular phylogeny of *Gundelia* species native to Turkey**
Ateş M. A., Fırat M., KAYA Z.
Plant Systematics and Evolution, vol.307, no.4, 2021 (SCI-Expanded)
- IX. **Genetic diversity and population structure of *Salix alba* across river systems in Turkey and their importance in conservation management**
Özdemir Değirmenci F., Çiftçi A., Acar P., Kaya Z.
Plant Ecology and Diversity, vol.14, no.5-6, pp.293-304, 2021 (SCI-Expanded)
- X. **Impact of biased sex ratio on the genetic diversity, structure, and differentiation of *Populus nigra* (European black poplar)**
Çiftçi A., Yelmen B., Değirmenci F. Ö., Kaya Z.
BOTANY, vol.98, no.10, pp.603-613, 2020 (SCI-Expanded)
- XI. **Variation in cold tolerance in F6 durum wheat [*Triticum turgidum* (L.) Tell. convar. durum (Desf.) Mackey] RILs and the relationships of cold tolerance with some quality parameters and genetic markers**
Göçmen Taşkın B., Özbek Ö., Keskin Şan S., Eser V., Nachit M. M., KAYA Z.
Journal of Agricultural Science, vol.158, pp.47-56, 2020 (SCI-Expanded)
- XII. **Genetic diversity of marginal populations of *Populus euphratica* Oliv. from highly fragmented river ecosystems**
KANSU Ç., KAYA Z.
SILVAE GENETICA, vol.69, no.1, pp.139-151, 2020 (SCI-Expanded)
- XIII. **The utility of NBS-profiling for characterization of yellow rust resistance in an F6 durum wheat population**
Tufan H. A., Taşkın B. G., Maccormack R., Boyd L. A., Kaya Z., Türet M.
Journal of genetics, vol.98, 2019 (SCI-Expanded)
- XIV. **The utility of NBS-profiling for characterization of yellow rust resistance in an F-6 durum wheat population**
Tufan H. A., Göçmen Taşkın B., Maccormack R., Boyd L. A., KAYA Z., Türet M.
JOURNAL OF GENETICS, vol.98, no.4, 2019 (SCI-Expanded)
- XV. **Genetic diversity and structure of *Populus nigra* populations in two highly fragmented river ecosystems from Turkey**
ÇİFTÇİ A., KAYA Z.
Tree Genetics and Genomes, vol.15, no.4, 2019 (SCI-Expanded)
- XVI. **Consequences of habitat fragmentation on genetic diversity and structure of *Salix alba* L. populations in two major river systems of Turkey**
Degirmenci F. O., Acar P., KAYA Z.
Tree Genetics and Genomes, vol.15, no.4, 2019 (SCI-Expanded)
- XVII. **Ancient DNA (aDNA) extraction and amplification from 3500-year-old charred economic crop seeds from Kaymakçı in Western Turkey: comparative sequence analysis using the 26S rDNA gene**

- ÇİFTÇİ A., Değirmenci F. O., Luke C., Roosevelt C. H., Marston J. M., KAYA Z.
Genetic Resources and Crop Evolution, vol.66, no.6, pp.1279-1294, 2019 (SCI-Expanded)
- XVIII. **A Reference Genome Sequence for the European Silver Fir (*Abies alba* Mill.): A Community-Generated Genomic Resource**
Mosca E., Cruz F., Gómez-Garrido J., Bianco L., Rellstab C., Brodbeck S., Csilléry K., Fady B., Fladung M., Fussi B., et al.
G3 (Bethesda, Md.), vol.9, no.7, pp.2039-2049, 2019 (SCI-Expanded)
- XIX. **MOLECULAR PHYLOGENY OF SECTION DROSANTHE (SPACH) ENDL. (HYPERICUM L.) INFERRED FROM CHLOROPLAST GENOME**
DOĞAN G., YILMAZ A., BAĞCI E., KAYA Z.
PAKISTAN JOURNAL OF BOTANY, vol.49, no.6, pp.2235-2242, 2017 (SCI-Expanded)
- XX. **Genetic differentiation between clone collections and natural populations of European black poplar (*Populus nigra* L.) in turkey**
ÇİFTÇİ A., Karatay H., Kucukosmanoglu F., Karahan A., KAYA Z.
TREE GENETICS & GENOMES, vol.13, no.3, 2017 (SCI-Expanded)
- XXI. **Gene regulation network behind drought escape, avoidance and tolerance strategies in black poplar (*Populus nigra* L.)**
Yildirim K., Kaya Z.
PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol.115, pp.183-199, 2017 (SCI-Expanded)
- XXII. **Population variation in drought resistance and its relationship with adaptive and physiological seedling traits in Turkish red pine (*Pinus brutia* Ten.)**
Kandemir G., Onde S., TEMEL F., KAYA Z.
TURKISH JOURNAL OF BIOLOGY, vol.41, no.2, pp.256-267, 2017 (SCI-Expanded)
- XXIII. **Phylogenetic relationships between *Oxytropis* DC. and *Astragalus* L. species native to an Old World diversity center inferred from nuclear ribosomal ITS and plastid matK gene sequences**
Tekpinar A. D., KARAMAN ERKUL S., AYTAÇ Z., KAYA Z.
TURKISH JOURNAL OF BIOLOGY, vol.40, no.1, pp.250-263, 2016 (SCI-Expanded)
- XXIV. **Phylogenetic relationships among native *Oxytropis* species in Turkey using the trnL intron, trnL-F IGS, and trnV intron cpDNA regions**
Tekpinar A., KARAMAN ERKUL S., AYTAÇ Z., KAYA Z.
TURKISH JOURNAL OF BOTANY, vol.40, no.5, pp.472-479, 2016 (SCI-Expanded)
- XXV. **A molecular phylogeny of *Salvia euphratica* sensu lato (*Salvia* L., Lamiaceae) and its closely related species with a focus on the section *Hymenosphaea***
Dizkırıcı A., CELEP F., Kansu C., KAHRAMAN A., DOĞAN M., KAYA Z.
PLANT SYSTEMATICS AND EVOLUTION, vol.301, no.10, pp.2313-2323, 2015 (SCI-Expanded)
- XXVI. **The evolutionary divergence of *Pinus nigra* subsp *pallasiana* and its varieties based on noncoding trn regions of chloroplast genome**
Gulsoy A. D., Gulsoy A. M., Cengel B., KAYA Z.
TURKISH JOURNAL OF BOTANY, vol.38, no.4, pp.627-636, 2014 (SCI-Expanded)
- XXVII. **Comparative molecular phylogenetics of *Astragalus* L. sections from Turkey with New World *Astragalus* species using nrDNA ITS sequences**
Dizkırıcı A., EKİCİ M., KAYA Z.
PLANT SYSTEMATICS AND EVOLUTION, vol.300, no.1, pp.163-175, 2014 (SCI-Expanded)
- XXVIII. **Phylogenetic relationships among *Triticum* L. and *Aegilops* L. species as genome progenitors of bread wheat based on sequence diversity in trnT-F region of chloroplast DNA**
Dizkırıcı A., Kansu C., ÖNDE S., AVCI BİRSİN M., Ozgen M., KAYA Z.
GENETIC RESOURCES AND CROP EVOLUTION, vol.60, no.8, pp.2227-2240, 2013 (SCI-Expanded)
- XXIX. **Analysis of ancient DNA from in vitro grown tissues of 1600-year-old seeds revealed the species as *Anagyris foetida***
Ozgen M., Ozdilek A., BİRSİN M. A., ÖNDE S., ŞAHİN D., AÇIKGÖZ E., KAYA Z.
SEED SCIENCE RESEARCH, vol.22, no.4, pp.279-286, 2012 (SCI-Expanded)
- XXX. **Magnitude and efficiency of genetic diversity captured from seed stands of *Pinus nigra* (Arnold)**

subsp pallasiana in established seed orchards and plantations

Cengel B., Tayanc Y., Kandemir G., Velioglu E., Alan M., KAYA Z.
NEW FORESTS, vol.43, no.3, pp.303-317, 2012 (SCI-Expanded)

- XXXI. **Molecular phylogeny of relict-endemic Liquidambar orientalis Mill based on sequence diversity of the chloroplast-encoded matK gene**
Ozdilek A., Cengel B., Kandemir G., Tayanc Y., Velioglu E., KAYA Z.
PLANT SYSTEMATICS AND EVOLUTION, vol.298, no.2, pp.337-349, 2012 (SCI-Expanded)
- XXXII. **Improved in vitro micropropagation method with adventitious corms and roots for endangered saffron**
Zeybek E., ÖNDE S., KAYA Z.
CENTRAL EUROPEAN JOURNAL OF BIOLOGY, vol.7, no.1, pp.138-145, 2012 (SCI-Expanded)
- XXXIII. **Strong Genetic Control of High Wood Specific Gravity in Young Progenies of Pinus brutia: Potential of Early Selection for Industrial Plantations**
Yildirim K., Öztürk H., Siklar S., Balkiz O., KAYA Z.
SILVAE GENETICA, vol.60, no.6, pp.249-258, 2011 (SCI-Expanded)
- XXXIV. **Indirect organogenesis from bud explants of Juniperus communis L.: Effects of genotype, gender, sampling time and growth regulator combinations**
KOCER Z. A., GÖZEN A. G., ÖNDE S., KAYA Z.
DENDROBIOLOGY, vol.66, pp.33-40, 2011 (SCI-Expanded)
- XXXV. **Phylogenetic relationships of Elymus L. and related genera (Poaceae) based on the nuclear ribosomal internal transcribed spacer sequences Elymus L. ve akraba cinslerin (Poaceae) nüklear ribozomal iç transkripsiyonu aralayıcı dizisi kullanılarak filogenetik akrabalıkları**
Dizkirici A., KAYA Z., Cabi E., DOĞAN M.
Turkish Journal of Botany, vol.34, no.6, pp.467-478, 2010 (SCI-Expanded)
- XXXVI. **Phylogenetic relationships of Elymus L and related genera Poaceae Triticeae Dumort based on the nuclear ribosomal internal transcribed spacer sequences**
DİZKIRICI A., KAYA Z., CABI E., DOĞAN M.
Turkish Journal of Botany, vol.36, pp.467-478, 2010 (SCI-Expanded)
- XXXVII. **Phylogenetic relationships of Elymus L. and related genera (Poaceae) based on the nuclear ribosomal internal transcribed spacer sequences**
Dizkirici A., KAYA Z., Cabi E., DOĞAN M.
TURKISH JOURNAL OF BOTANY, vol.34, no.6, pp.467-478, 2010 (SCI-Expanded)
- XXXVIII. **Genetic Variation in Cold Hardiness and Phenology Between and Within Turkish Red Pine (Pinus brutia Ten.) Populations: Implications for Seed Transfer**
Kandemir G. E., KAYA Z., Temel F., ÖNDE S.
SILVAE GENETICA, vol.59, pp.49-57, 2010 (SCI-Expanded)
- XXXIX. **Barley germplasms developed for scald disease resistance exhibited a high level of genetic diversity based on SRAP markers**
Dizkirici A., KAYA Z., Guren H. E., BUDAK H.
TURKISH JOURNAL OF BIOLOGY, vol.34, no.3, pp.271-279, 2010 (SCI-Expanded)
- XL. **Genetic Variation in Cold Hardiness and Phenology Between and Within Turkish Red Pine (Pinus brutia Ten.) Populations: Implications for Seed Transfer**
Kandemir G., KAYA Z., TEMEL F., ÖNDE S.
SILVAE GENETICA, vol.59, pp.49-57, 2010 (SCI-Expanded)
- XLI. **The phylogenetic relationship between populations of marginally and sympatrically located Pinus halepensis Mill. and Pinus brutia Ten. in Turkey, based on the ITS-2 region**
Tozkar C. O., ÖNDE S., KAYA Z.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.33, no.4, pp.363-373, 2009 (SCI-Expanded)
- XLII. **Induction of embryogenic tissue from immature zygotic embryos in Pinus nigra J.F. Arnold subsp. nigra var. caramanica (Loudon) Businsky**

- Özkurt Z., Yildirim T., ÖNDE S., KAYA Z.
Turkish Journal of Botany, vol.32, no.3, pp.179-183, 2008 (SCI-Expanded)
- XLIII. **Genetic differentiation of *Abies equi-trojani* (Asch. & Sint. ex Boiss) Mattf. populations from Kazdağı, Turkey and the genetic relationship between Turkish firs belonging to the *Abies nordmanniana* Spach complex**
KAYA Z., Skaggs A., Neale D. B.
Turkish Journal of Botany, vol.32, no.1, pp.1-10, 2008 (SCI-Expanded)
- XLIV. **Determination of airborne lead contamination in *Cichorium intybus* L In an urban environment**
Yakupoğlu D., GÜRAY N. T., Sarıca D. Y., KAYA Z.
Turkish Journal of Botany, vol.32, pp.319-324, 2008 (SCI-Expanded)
- XLV. **Microsatellite SSR variation in Barley germplasm and its potential use for marker assisted selection in scald resistance breeding**
DİZKIRICI A., Özcan H. E., ÖNDE S., TEMEL F., AKAR T., BUDAK H., KAYA Z.
Omics-A Journal Of Integrative Biology, vol.4, pp.9-15, 2008 (SCI-Expanded)
- XLVI. **The impact of over-exploitation on the genetic structure of Turkish red pine (*Pinus brutia* Ten.) populations determined by RAPD markers**
Lise Y., Kaya Z., Isik F., Sabuncu R., Kandemir I., Onde S.
SILVA FENNICA, vol.41, no.2, pp.211-220, 2007 (SCI-Expanded)
- XLVII. **Induction of embryogenic tissue and maturation of somatic embryos in *Pinus brutia* TEN**
Yildirim T., Kaya Z., Isik K.
PLANT CELL TISSUE AND ORGAN CULTURE, vol.87, no.1, pp.67-76, 2006 (SCI-Expanded)
- XLVIII. **Potential impact of forest management and tree improvement on genetic diversity of Turkish red pine (*Pinus brutia* Ten.) plantations in Turkey**
Icgen Y., Kaya Z., Cengel B., Velioglu E., Ozturk H., Onde S.
FOREST ECOLOGY AND MANAGEMENT, vol.225, pp.328-336, 2006 (SCI-Expanded)
- XLIX. **DNA from ancient cedar wood from King Midas' tomb, Turkey, and Al-Aksa Mosque, Israel**
Rogers S., KAYA Z.
SILVAE GENETICA, vol.55, no.2, pp.54-62, 2006 (SCI-Expanded)
- L. **Genetic variation in Turkish red pine (*Pinus brutia* Ten.) seed stands as determined by RAPD markers**
Kandedmir G., Kandemir I., Kaya Z.
SILVAE GENETICA, vol.53, no.4, pp.169-175, 2004 (SCI-Expanded)
- LI. **Response of 150 F-6 inbred durum wheat lines derived from Kunduru-1149 x Cham-1 cross to yellow rust (*Puccinia striiformis*)**
Gocmen B., Albustan S., Kaya Z., Keskin S., Taskin V.
CROP PROTECTION, vol.22, no.5, pp.787-793, 2003 (SCI-Expanded)
- LII. **Effects of antimetabolic agents on haploid plant production from unpollinated ovules of sugar beet (*beta vulgaris* l.)**
Gürel S., Gürel E., KAYA Z., Erdal M., Güler E.
Biotechnology and Biotechnological Equipment, vol.17, no.2, pp.97-101, 2003 (SCI-Expanded)
- LIII. **Genetic variation in wood specific gravity of half-sib families of *Pinus nigra* subsp *pallasiana* tested at the juvenile stage: Implications for early selection**
Kaya Z., Steel F., Temerit A., Vurdu H.
SILVAE GENETICA, vol.52, pp.153-158, 2003 (SCI-Expanded)
- LIV. **Development of Random Amplified Polymorphic DNA (RAPD) markers in 150 F-6-inbred durum wheat (*Triticum durum*) lines derived from Kunduru-1149 x Cham-1 cross**
Gocmen B., Keskin S., Kaya Z., Taskin V.
ISRAEL JOURNAL OF PLANT SCIENCES, vol.51, no.4, pp.245-249, 2003 (SCI-Expanded)
- LV. **Genetic variability among Turkish pop, flint and dent corn (*Zea mays* L. spp. *mays*) races: Morphological and agronomic traits**
Ilarslan R., KAYA Z., KANDEMİR İ., Bretting P. K.

- EUPHYTICA, vol.128, no.2, pp.173-182, 2002 (SCI-Expanded)
- LVI. **Biodiversity and conservation of Turkish forests**
KAYA Z., DJ R.
Biological Conservation, vol.97, pp.131-141, 2001 (SCI-Expanded)
- LVII. **Genetic variability among Turkish pop, flint and dent corn (*Zea mays* L. spp. *Mays*) races: Enzyme polymorphism**
Ilarslan R., Kaya Z., Tolun A., Bretting P.
EUPHYTICA, vol.122, no.1, pp.171-179, 2001 (SCI-Expanded)
- LVIII. **Doubled haploid plant production from unpollinated ovules of sugar beet (*Beta vulgaris* L.)**
Gürel S., GÜREL E., KAYA Z.
PLANT CELL REPORTS, vol.19, no.12, pp.1155-1159, 2000 (SCI-Expanded)
- LIX. **Pattern and magnitude of genetic diversity in *Pinus nigra* ARNOLD subspecies *pallasiana* populations from Kazdagi: Implications for in situ conservation**
Cengel B., Veliöğlu E., Tolun A. A., KAYA Z.
SILVAE GENETICA, vol.49, no.6, pp.249-256, 2000 (SCI-Expanded)
- LX. **Genetic structure of black pine (*Pinus nigra* ARNOLD subspecies *pallasiana*) populations sampled from the Bolkar Mountains**
Tolun A., Veliöğlu E., Çengel B. N., KAYA Z.
SILVAE GENETICA, vol.49, no.3, pp.113-119, 2000 (SCI-Expanded)
- LXI. **Identification of quantitative trait loci influencing annual height- and diameter-increment growth in loblolly pine (*Pinus taeda* L.)**
Kaya Z., Sewell M., Neale D.
THEORETICAL AND APPLIED GENETICS, vol.98, pp.586-592, 1999 (SCI-Expanded)
- LXII. **In vitro regeneration of Anatolian black pine [*Pinus nigra* Arnold subsp. *pallasiana* (Lamb.) Holmboe] from excised embryos**
KAYA Z., Gökçe F.
Turkish Journal of Botany, vol.21, no.4, pp.197-202, 1997 (SCI-Expanded)
- LXIII. **Genetic control of rooting ability of lodgepole pine cuttings**
Fries A., Kaya Z.
FOREST SCIENCE, vol.43, no.4, pp.582-588, 1997 (SCI-Expanded)
- LXIV. **The pattern of genetic variation in shoot growth of *Pinus brutia* Ten. populations sampled from the Toros mountains in Turkey**
Kaya Z., Isik F.
SILVAE GENETICA, vol.46, pp.73-81, 1997 (SCI-Expanded)
- LXV. **Parameters affecting shoot production and rooting of cuttings from lodgepole pine hedges**
Fries A., Kaya Z.
NEW FORESTS, vol.12, no.2, pp.101-111, 1996 (SCI-Expanded)
- LXVI. **Development of random amplified polymorphic DNA markers for genetic mapping in Pacific yew (*Taxus brevifolia*)**
Gocmen B., Jermstad K., Neale D., Kaya Z.
CANADIAN JOURNAL OF FOREST RESEARCH-REVUE CANADIENNE DE RECHERCHE FORESTIERE, vol.26, no.3, pp.497-503, 1996 (SCI-Expanded)
- LXVII. **UTILITY OF RANDOM AMPLIFIED POLYMORPHIC DNA (RAPD) MARKERS FOR LINKAGE MAPPING IN TURKISH RED PINE (*PINUS-BRUTIA* TEN)**
KAYA Z., NEALE D.
SILVAE GENETICA, vol.44, pp.110-116, 1995 (SCI-Expanded)
- LXVIII. **ADAPTIVE SIGNIFICANCE OF INTERMITTENT SHOOT GROWTH IN DOUGLAS-FIR SEEDLINGS**
KAYA Z., Adams W. T., Campbell R. K.
TREE PHYSIOLOGY, vol.14, no.11, pp.1277-1289, 1994 (SCI-Expanded)
- LXIX. **GENETIC-STRUCTURE OF MARGINALLY LOCATED *PINUS-NIGRA* VAR *PALLASIANA* POPULATIONS IN CENTRAL TURKEY**

- KAYA Z., TEMERIT A.
SILVAE GENETICA, vol.43, pp.272-277, 1994 (SCI-Expanded)
- LXX. **GENETIC-VARIATION IN SHOOT GROWTH COMPONENTS AND THEIR CORRELATIONS IN PSUEDOTSUGA-MENZIESII VAR-MENZIESII SEEDLINGS**
KAYA Z.
SCANDINAVIAN JOURNAL OF FOREST RESEARCH, vol.8, no.1, pp.1-7, 1993 (SCI-Expanded)
- LXXI. **The Genetic Variation of Inter-provenance Hybrids of Picea abies and Possible Breeding Consequences**
KAYA Z., Lindgren D.
SCANDINAVIAN JOURNAL OF FOREST RESEARCH, vol.7, pp.15-26, 1992 (SCI-Expanded)
- LXXII. **The Effects of Test Environments on Estimation of Genetic Parameters for Seedling Traits in 2-Year-old Douglas-fir**
Kaya Z.
SCANDINAVIAN JOURNAL OF FOREST RESEARCH, vol.7, pp.287-296, 1992 (SCI-Expanded)
- LXXIII. **Environmental sensitivities of plant populations and their practical importance. I: A case study on Pinus brutia Ten. Bitki populasyonlarının çevresel duyarlılık değeri ve uygulamadaki önemi. I: kizilcam ornegi**
Isik K., KAYA Z.
Doga, Turkish Journal of Agriculture & Forestry, vol.14, no.1, pp.67-77, 1990 (SCI-Expanded)
- LXXIV. **CORRELATED RESPONSES OF HEIGHT INCREMENT AND COMPONENTS OF INCREMENT IN 2-YEAR-OLD DOUGLAS-FIR**
KAYA Z., Campbell R. K., Adams W. T.
CANADIAN JOURNAL OF FOREST RESEARCH-REVUE CANADIENNE DE RECHERCHE FORESTIERE, vol.19, no.9, pp.1124-1130, 1989 (SCI-Expanded)
- LXXV. **A STATISTICAL-ANALYSIS OF KARYOTYPES OF EUROPEAN BLACK PINE (PINUS-NIGRA-ARNOLD) FROM DIFFERENT SOURCES**
KAYA Z., CHING K., STAFFORD S.
SILVAE GENETICA, vol.34, pp.148-156, 1985 (SCI-Expanded)

Articles Published in Other Journals

- I. **Turkish Salix species: Molecular phylogeny and morphology**
Acar P., TAŞKIRAN B., ÖZDEMİR DEĞİRMENCİ F., KAYA Z.
FORESTIST, vol.70, no.2, pp.141-150, 2020 (ESCI)
- II. **Potential natural heritage sites in Turkey**
KAYA Z.
World Heritage, vol.80, pp.84-89, 2016 (Peer-Reviewed Journal)
- III. **Genetic structure of four Kazdağı fir (Abies equitrojani Ascherson et Sinten) populations in Kazdağı, Turkey as assessed by adaptive seedling traits**
Çiçek F. F., KAYA Z., Çengel B. N., Velioğlu E.
Forest Genetics, vol.12, no.1, pp.45-56, 2005 (Scopus)
- IV. **Genetic structure of four Kazdağı fir Abies equitrojani Ascherson et Sinten populations in Kazdağı Turkey as assessed by adaptive seedling traits**
Burcu C., Velioğlu E., Çiçek F. F., KAYA Z.
International Journal of Forest Genetics, vol.12, pp.45-52, 2005 (Peer-Reviewed Journal)
- V. **Protoplast isolation and culture in sugar beet (Beta vulgaris L.)**
Gürel E., Gürel S., KAYA Z.
Plant Cell Biotechnology and Molecular Biology, vol.3, pp.11-20, 2002 (Scopus)

Books & Book Chapters

- I. **Karaçam Populasyonlarında Genetik Çalışmalar**
Cengel B., Kaya Z.
in: Karaçam, Orhan Sevgi, Barış Tecimen, Taner Okan, Editor, Türkiye Ormancılar Derneği, Ankara, pp.50-64, 2022
- II. **UNESCO Dünya Doğal Miras Alanı Başvuru Süreci, Türkiye'nin Unesco Dünya Doğal Miras Alan Potansiyeli ve Başvuru Zorlukları**
Kaya Z.
in: KÜLTÜR MİRASI YÖNETİMİ: NEDEN VE NASIL? Türkiye'den Deneyimler ve Tartışmalar, A. Aksoy, D. Ünsal, E. O. Polat, G. Pulhan, İ. Dinçer, N. Z. Gülersoy, T. G. Köksal, Z. Ahunbay, Z. Enlil, Editor, İstanbul Bilgi Üniversitesi Yayınları, İstanbul, pp.425-443, 2022
- III. **World Natural Heritage Nominations: Potential Sites of Turkey and Difficulties of Nomination**
Kaya Z.
in: Heritage, World Heritage and Future: Perspectives on Scale, Conservation, and Dialogue, B. Nilgün Öz, Christina Luke, Editor, Koç University Press, İstanbul, pp.95-112, 2022
- IV. **UNESCO Dünya Doğal Miras Alanı Başvuru Süreci, Türkiye'nin Unesco Dünya Doğal Miras Alan Potansiyeli ve Başvuru Zorlukları**
Kaya Z.
in: Miras, Dünya Mirası ve Gelecek: Ölçek, Koruma ve Diyalog Üzerine Görüşler, B. Nilgün Öz, Christina Luke, Editor, Koç Üniversitesi yayınları, İstanbul, pp.65-85, 2022
- V. **The Proceedings of International Symposium on in situ conservation of Plant Genetic Diversity**
Nusret Z., Kaya Z., Anikster Y., Adams W.
Central Research Inst of Field Crops, Ankara, 1998
- VI. **National Plan for in situ Conservation of plant genetic diversity in Turkey**
Kaya Z., Kün E., Güner A.
Milli Eğitim Basımevi, İstanbul, 1997

Refereed Congress / Symposium Publications in Proceedings

- I. **Genetic alteration in the chloroplast and nuclear gene regions of 3500-year-old charred crop seeds from the archaeological site of Kaymakçı**
Uluğ A., Özdemir Değirmenci F., Kansu Ç., Tunçer G., Roosevelt C., Luke C., Kaya Z.
The 9th Ecology and Evolutionary Biology Symposium, İstanbul, Turkey, 17 - 19 July 2023, pp.1-2
- II. **ANCIENT DNA ANALYSIS FOR CORRECT IDENTIFICATION OF CHARRED CROP SEEDS FROM ARCHAEOLOGICAL EXCAVATIONS AT BRONZE AGE KAYMAKÇI**
ÖZDEMİR DEĞİRMENCİ F., ULUĞ A., KANSU Ç., LUKE C., ROOSEVELT C., KAYA Z.
2. Ahi Evran International Conference on Scientific Research, 21-23 October 2022, Kırşehir, Turkey, 21 October 2022
- III. **Best practices for DNA extraction from charred seeds: The Kaymakçı archaeological case**
Özdemir Değirmenci F., Uluğ A., Kansu Ç., Luke C., Roosevelt C., Kaya Z.
8th Ecology and Evolutionary Biology Symposium, Ankara, Turkey, 7 - 09 September 2022, pp.3
- IV. **KARAÇAM POPULASYONLARINDA GENETİK ÇALIŞMALAR**
Cengel B., KAYA Z.
Karaçam Çalıştayı, Çevrimiçi, İstanbul, Turkey, 24 - 26 November 2020
- V. **ITS2 (Internal Transcribed Spacer 2) Region: A Valuable Marker to Label Some Scrophularia L. Species Native to Turkey**
ATEŞ M. A., UZUNHİSARCIKLİ M. E., DOĞAN GÜNER E., KAYA Z.
3rd International Eurasian Conference on Biological Chemical Sciences, 19 - 20 March 2020
- VI. **UNESCO World Natural Heritage Nominations: Potential Areas and Difficulties of Nomination in Turkey**

KAYA Z.

14th International ANAMED Annual Symposium: Heritage, World Heritage, and the Future, 5 - 06 December 2019

- VII. **Comparative sequence analysis of 3500 year-old charred seeds from Kaymakçı in western Turkey with their contemporary relatives using chloroplast and nuclear gene regions**
KAYA Z., Çiftci A., ÖZDEMİR DEĞİRMENCİ F., Roosevelt C. H., Luke C., Marston J.
SARA: Seed Science and Archaeobotanical Research in Anatolia, 23 - 26 September 2019
- VIII. **Molecular clock estimation on six Astragalus L. sections native to Turkey via cpDNA regions**
Kaya Z.
International Conference on Science and Technology (ICONST 2018), Prizren, Kosova, 5 - 09 September 2018, pp.66
- IX. **The Abies alba genome project: a new genomic resources for sensitive species.**
Kaya Z.
The Abies alba genome projec II Joint Congress on Evolutionary Biology – Montpellier 2018:S-76 evolutionary management of wild populations, August 19-22, 2018 Montpellier, France, Montpellier, France, 19 - 22 August 2018, pp.6920
- X. **Haplotype frequency analysis of Turkish Salix L. (Salicaceae),**
Kaya Z.
XXVI Plant and Animal Genome Meeting, California, United States Of America, 13 - 17 January 2018, pp.634
- XI. **Genetic control of 4 coumarate coenzyme A ligase (4CL9 enzymes involved in lignin biosynthesis of European black poplar (Populus nigra L.)**
TAŞKIRAN B., GÜRAY N. T., KAYA Z.
XXVI Plant and Animal Genome Meeting, San Diego, United States Of America, 13 - 17 January 2018
- XII. **Taxonomic revision of six Astragalus sections that native to Turkey based on non-coding trn regions of cpDNA**
ATEŞ M. A., KARAMAN ERKUL S., ÖNDE S., AYTAÇ Z., KAYA Z.
The 3rd International Symposium on Euroasian Biodiversity, Minsk, Belarus, 05 July 2017 - 08 January 2018
- XIII. **Genetic diversity structure of populus nigra populations in a major rivers system.: What is the role of human impact**
Çiftci A., KAYA Z.
IUFRO 125 th Anniversary Congress 2017: Interconnecting Forests ,Science and People, Freiburg, Germany, 18 - 22 September 2017
- XIV. **Characterization of genetic diversity and population structure of Salix alba populations in the longest rivers system in the middle Anatolia**
ÖZDEMİR DEĞİRMENCİ F., ACAR P., KAYA Z.
IUFRO 125 the Anniversary Congress 2017: Interconnecting forests, science and people, Freiburg, Germany, 18 - 22 September 2017
- XV. **Genetic variation in natural Turkish hazzelnut (Corylus colurna L.) populations in Turkey**
TEMEL F., çakar D., Arslan M., ÖZDEMİR DEĞİRMENCİ F., ATEŞ M. A., KAYA Z.
IX. International Congress on Hazelnut, Samsun, Turkmenistan, 15 August - 19 July 2017
- XVI. **The phylogenetic survey on Turkish Salix L. inferred from cpDNA and nr DNA data set**
ACAR P., ÖZDEMİR DEĞİRMENCİ F., KAYA Z.
The 3 inernational symposium on euroasian biodiversity, Minsk, Belarus, 5 - 08 July 2017
- XVII. **Genetic composition of three marginally located Anatolian Black Pine (Pinus nigra subsp. pallasiana) populations determined by SSR markers**
Aygun S., Cengel B., KAYA Z.
International Symposium on Biodiversity of edible and wild plants (BEWS 2017), Antalya, Turkey, 3 - 05 April 2017
- XVIII. **What are the factors that shaping genetic diversity structure of Populus nigra populations in a major river system in TURkey**
Çiftci A., KAYA Z.
International symposium on biodiversity and edible wild species, Antalya, Turkey, 3 - 05 April 2017

- XIX. **Genetic Diversity and population structure of *Populus euphratica* (Salicaceae) in Southeastern region of Turkey**
KANSU Ç., KAYA Z.
International Symposium on Biodiversity and Edible Wild Species (BEWS2017), Antalya, Turkey, 3 - 05 April 2017
- XX. **Genetic characterization of *Salix alba* populations in the longest river system in middle Anatolia**
ÖZDEMİR DEĞİRMENCİ F., ACAR P., KAYA Z.
International symposium on biodiversity and edible wild species, Antalya, Turkey, 3 - 05 April 2017
- XXI. **Phylogenetic relationship of six *Astragalus* sections based on ITS (Internal Transcribed Spacer) regions of genomic DNA**
ATEŞ M. A., KARAMAN ERKUL S., ÖNDE S., AYTAÇ Z., KAYA Z.
. International Symposium on Biodiversity and Edible Wild Species (BEWS2017), Antalya, Turkey, 3 - 05 April 2017
- XXII. **Molecular phylogentic relationship among Türkish *Salix* species Segueunce analysis of Chloroplast *rbcl* and nuclear ETS regions**
ACAR P., ÖZDEMİR DEĞİRMENCİ F., KAYA Z.
23rd National Biology Congress, Gaziantep, Turkey, 5 - 09 September 2016
- XXIII. **Association genetics of phenylalanine ammonia lyase (PAL) and cinnamyl alcohol dehydrogenase (CAD) enzymes involved in lignin biosynthesis of european black poplar (*Populus nigra*)**
TAŞKIRAN B., KAYA Z.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.328
- XXIV. **World natural heritage potentials of Turkey**
KAYA Z.
WHC 40th Session Side event on Workshop on World natural heritage potentials of Turkey & World Agricultural heritages, 12 July 2016
- XXV. **Phylogenetic Relationship Of Scrophularia Species In Turkey Based On Non Coding trn Regions and *matK* Gene Region Of Chloroplast Genome**
ATEŞ M. A., UZUNHİSARCIKLI M. E., DOĞAN GÜNER E., ÖNDE S., EKİCİ M., KAYA Z.
Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016
- XXVI. **The role of gene flow in shaping genetic diversity structure of the domesticated and natural *Populus nigra* populations in Turkey**
Çiftci A., KAYA Z.
Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, 26 - 30 June 2016
- XXVII. **Genetic Structures of *Salix alba* Populations in a Fragmented River Ecosystem in Eastern Mediterranean**
ÖZDEMİR DEĞİRMENCİ F., ACAR P., KAYA Z.
Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016
- XXVIII. **Phylogenetic relationships of Turkish *Salix* species Analysis based on chloroplast and nuclear sequence data**
ACAR P., ÖZDEMİR DEĞİRMENCİ F., KAYA Z.
Plant Biology Europe EPSO/FESBP 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016
- XXIX. **Magnitude and structure of genetic diversity of *Populus euphratica* populations in Göksu River Turkey**
KANSU Ç., KAYA Z.
Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016
- XXX. **Association genetics of phenylalanine ammonia lyase PAL and cinnamyl alcohol dehydrogenase CAD enzymes involved in lignin biosynthesis of European black poplar *Populus nigra***
TAŞKIRAN B., KAYA Z.
The 41 st FEBS Congress, Turkey, 3 September - 08 June 2016, vol.283, pp.127-427
- XXXI. **Gene Expression Profiles of of Low Temperature Related Genes in Cold Resistant and Sensitive Black Poplar *Populus nigra* L Clones**
ZEYBEK E., YILDIRIM K., KAYA Z.

- XXIV. Plant and Animal Genome Conference, San Diego, United States Of America, 9 - 13 January 2016
- XXXII. **Genetic Diversity Pattern of Salix alba Populations in a Fragmented River Ecosystem in Eastern Mediterranean**
ÖZDEMİR DEĞİRMENCİ F., ACAR P., KAYA Z.
XXIV. Plant and Animal Genome Conference, San Diego, United States Of America, 9 - 13 January 2016
- XXXIII. **Phylogenetic Analysis of the Turkish Salix Species Based on Sequence Data from Chloroplast matK and nuclear ITS Regions**
ACAR P., ÖZDEMİR DEĞİRMENCİ F., KAYA Z.
XXIV. Plant and Animal Genome Conference, San Diego, United States Of America, 9 - 13 January 2016
- XXXIV. **UNESCO da Doğa Bilimleri**
KAYA Z.
Jeopark Alanları Ulusal Listesine Öneri Sunma Çalıştayı, Ankara, Turkey, 02 October 2015
- XXXV. **Effectiveness of genetic resource conservation in Picea orientalis**
TEMEL F., ÖZDİLEK A., KAYA Z.
The 4th Annual Meeting of AforGeN (the Alpine Forest Genomics Network), Ramsau, Germany, 19 - 22 June 2015
- XXXVI. **Türkiye de Biyolojik Çeşitliliğin Sürdürülebilir Korunması**
KAYA Z.
Ulusal Biyoçeşitlilik Sempozyumu, Şanlıurfa, Turkey, 22 - 23 May 2015
- XXXVII. **UNESCO Doğal Miras Alanları ve Başvuru Süreci**
KAYA Z.
ODTÜ DAS -2015 Dönem Arası Seminerleri, Ankara, Turkey, 11 - 15 February 2015
- XXXVIII. **Şeker Pancarında (Beta vulgaris L.) ovul kültürü ile dihaploid bitkilerin üretimi**
Gürel S., Güler E., Erdal M., Kaya Z.
İkinci Ulusal Şeker Pancarı Üretimi Sempozyumu, Ankara, Turkey, 10 - 11 September 2002, pp.31-42
- XXXIX. **The pattern of genetic variation in Pinus nigra subspecies pallasiana natural populations from the Kazdagi and Bolkar mountains, Turkey: Implications for in situ gene conservation**
Kaya Z., Tolun A., Cengel B., Velioglu E., Tolun G.
IUFRO 99 Conference, FREISING, Germany, 01 January 1999, vol.70, pp.293-305
- XL. **Basal nutrient and hormonal requirements for direct organogenesis of Cedrus libani A. Rich**
Hosseyini N., Ozan A. G., Kaya Z.
IXth International Congress of the International-Association-of-Plant-Tissue-Culture-and-Biotechnology, JERUSALEM, Israel, 14 - 19 June 1998, vol.36, pp.53-56

Expert Reports

1. **Kızılırmak Delta and Bird Sanctuary, World Heritage Nomination Dossier to UNESCO (for inscription into the World Heritage list)**
Kaya Z.
Çevre ve Şehircilik Bakanlığı, pp.425, Samsun, 2018

Supported Projects

- Kaya Z., TÜBİTAK International Multi-Cooperation Project, Identifying seed sources for highly adaptable oak forests in a changing climate, 2021 - 2023
- KAYA Z., TAŞKIRAN B., GÜRAY N. T., Project Supported by Higher Education Institutions, Populus nigra L. genotiplerinin selüloz değerlerine ve farklı PnCesa4 gen ifadelerine göre karakterize edilmesi ve seçilmesi, 2019 - 2022
- Kaya Z., Güray N. T., Taşkıran B., Project Supported by Higher Education Institutions, POPULUS NİGRA L. GENOTİPLERİNİN SELÜLOZ DEĞERLERİNE VE FARKLI PNCESA4 GEN İFADELERİNE GÖRE KARAKTERİZE EDİLMESİ VE SEÇİLMESİ, 2019 - 2022

KAYA Z., TUBITAK Project, *Populus euphratica* Populasyonlarında Bulunan Genetik Çeşitliliğin Boyutu ve Yapılanması: Türün Olası Habitat Değişikliklerine Göstereceği Uyum, 2017 - 2020

KAYA Z., TAŞKIRAN B., Project Supported by Higher Education Institutions, *Populus nigra* klonlarının selüloz biyosentezinde önemli olan Sucrose Synthase (SuSY) enzim aktivitesi bakımından farklılaşması, 2018 - 2019

Kaya Z., TUBITAK Project, Marjinal Karaçam (*Pinus nigra* Subsp. *Pallasiana*) Populasyonlarında Genetik Çeşitlilik ve Akrabalık Düzeyi: Bu Tür Populasyonlarla Yapılacak Ağaçlandırmaların Genetik Uyum Potansiyeli, 2017 - 2018

KAYA Z., TUBITAK Project, Marjinal Karaçam (*Pinus nigra* Subsp. *Pallasiana*) Populasyonlarında Genetik Çeşitlilik ve Akrabalık Düzeyi: Bu Tür Populasyonlarla Yapılacak Ağaçlandırmaların Genetik Uyum Potansiyeli, 2017 - 2018

Neale D. B., Kaya Z., Project Supported by Public Organizations in Other Countries, The Silver fir (*Abies alba*) genome project (SFGP), 2016 - 2018

Kaya Z., Bani B., Özbek M. U., Acar P., TUBITAK Project, Türkiye'de Bulunan *Acer L.* (Aceraceae) Cinsinin Revizyonu, 2014 - 2018

KAYA Z., TAŞKIRAN B., Project Supported by Higher Education Institutions, LİGNİN BİYOSENTEZİNDE ÖNEMLİ ROL OYNAYAN 4-COUMARATE: COA LİGAZ (4CL) ENZİMİNİN AVRUPA KARA KAVAKLARINDA Kİ (*Populus nigra L.*) GENETİK İLİŞKİLERİ, 2017 - 2017

KAYA Z., TUBITAK Project, Türkiye'deki Söğüt Türlerinin Moleküler Filogenetiği ve Ekonomik Açıdan Önemli Olan Türlerin (*Salix alba* ve *Salix excelsa*) Islahına Yönelik Gen Kaynaklarının Karakterizasyonu, 2014 - 2017

KAYA Z., TUBITAK Project, Türkiye'deki Söğüt Türlerinin Moleküler Filogenetiği ve Ekonomik Açıdan Önemli Olan Türlerin (*Salix alba* ve *Salix excelsa*) Islahına Yönelik Gen Kaynaklarının Karakterizasyonu, 2014 - 2017

KAYA Z., TOKDEMİR Y., Project Supported by Higher Education Institutions, Çoruh Havzasında Doğal Yayılış Gösteren *Salix caprea* Populasyonlarının Genetik Çeşitliliğinin Belirlenmesi, 2015 - 2016

KAYA Z., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

KAYA Z., TUBITAK Project, TUBİTAK 2223 B Yurtiçi Bilimsel Etkinlik Düzenleme Destegi, 2014 - 2014

KAYA Z., Tümbilen Özer Y., Project Supported by Higher Education Institutions, Türkiye Söğüt Türlerinin Moleküler Filogenetiği, 2012 - 2014

KAYA Z., GÜLSOY A. D., Project Supported by Higher Education Institutions, TÜRKİYE'DEKİ JUNİPERUS (GYMNOSPERMAE) TÜRLERİNİN cpDNA'DAKİ TRN VE matK BÖLGELERİNE GÖRE FİLOGENETİK ANALİZİ, 2013 - 2013

KAYA Z., TUBITAK Project, Türkiye'deki Meşe Türlerinin Moleküler Sistematiği : Evrimsel İlişkiler ve Doğal Melezlenmenin Türleşmedeki Rolü, 2009 - 2012

KAYA Z., Project Supported by Higher Education Institutions, Kara Pas Ve Sarı Pas Hastalıklarına Dayanıklı Ve Hassas Durum Buğday Hatlarının Moleküler Düzeyde Biyofiziksel Metodlarla Karakterizasyonu, 2009 - 2011

KAYA Z., TUBITAK Project, Kızılçam (*Pinus Brutia* Ten) Akdeniz Bölgesi Alçak Rakım Islah Programı Kapsamında Odun Hammaddesi Üretimini Arttırmak İçin Kızılçam Odun Kalitesinde (Yoğunluk, Lif Karakterleri, İlkbahar ve Yaz Odunu Oranı) Kalıtsallık ve Genetik Kazanç Belirlenmesi, 2006 - 2008

KAYA Z., TUBITAK Project, Anadolu Sığla'sının (*Liquidambar orientalis* Mill.) Taksonomik ve Populasyon Düzeyinde Genetik Yapısının Moleküler Belirteçlerle Belirlenmesi ve Yerinde Koruma Stratejilerinin Geliştirilmesi, 2005 - 2008

Contractual Researches

KAYA Z., Genetic characterization of Turkish Black poplar genetic resources and development of molecular black poplar breeding program, 2012 - 2012

KAYA Z., Genetic characterization of Turkish Black poplar genetic resources and development of molecular black poplar breeding program, 2011 - 2011

KAYA Z., Molecular phylogenetics of Turkish oaks: Evolutionary relationships and the role of natural hybridization in speciation, 2011 - 2011

KAYA Z., ANADOLU SIĞLASI'NIN TAKSONOMİK VE POPULASYON DÜZEYİNDE GENETİK YAPISININ..., 2008 - 2008

KAYA Z., Anadolu Sığlası'nın (*Liquidambar orientalis* Mill.) Taksonomik ve Populasyon Düzeyinde Genetik Yapısının..., 2007 - 2008

Activities in Scientific Journals

Tree Genetics & Genomes, Assistant Editor/Section Editor, 2021 - Continues
Tree Genetics & Genomes, Assistant Editor/Section Editor, 2020 - 2020
Anadolu Ege Tarımsal Araştırma Enst. Dergisi, Committee Member, 2019 - 2019
Turkish Journal Of Biology, Committee Member, 2019 - 2019
Turkish Journal of Biodiversity, Committee Member, 2019 - 2019

Memberships / Tasks in Scientific Organizations

Turkish National Commission for UNESCO-Natural Sciences Expertise committee, Vice President, 2019 - Continues, Turkey
Turkish National Commission for Turkey-Experts Committee of Natural Sciences UNESCO Türkiye Milli Komisyonu Doğa Bilimleri İhtisas Komitesi, Vice President, 2018 - Continues

Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Gebze Technical University, Turkey, September 2019
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Eskişehir Technical University, Turkey, May 2019
NORDIC JOURNAL OF BOTANY, SCI Journal, August 2018
TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, May 2018

Scientific Consultations

KOSGEB, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey, 2018 - Continues
KOSGEB, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey, 2016 - 2018

Metrics

Publication: 127
Citation (WoS): 871
Citation (Scopus): 917
H-Index (WoS): 16
H-Index (Scopus): 15

Invited Talks

International Council on Monuments and Sites-2018, Conference, Uluslararası Anıtlar ve Sitler Konseyi Türkiye Milli Komitesi -2018, Turkey, December 2018

Scholarships

Fulbright Akademik Araştırma Bursu, Fulbright Program, 2022 - 2022

Awards

Kaya Z., Parlar Foundation Science Award, • 2022 Odtü Prof.Dr. Mustafa N. Parlar Education And Research Foundation-
Science Award, May 2022

Non Academic Experience

UNESCO Türkiye Milli Komisyonu ve UNESCO Dünya Miras Komitesi

METU

University of California, Davis, CA, USA

METU

METU

METU

Oregon State University, Corvallis