

## Prof. ZEKİ KAYA

### Personal Information

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### 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

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, 2019 - 2019

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, 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., 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 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 diversity pattern in female and male trees of *Populus euphratica* populations sampled from Göksu river basin, Postgraduate, N.NEBİOĞLU(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 diversity pattern in *Populus nigra* populations of two major river systems in Turkey, Doctorate, A.Çiftçi(Student), 2019

KAYA Z., Genetic characterization of pear cultivars (*Pyrus communis*) in Çoruh river basin, Postgraduate, A.Çoban(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., 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., Molecular phylogenetics of Turkish Salix L. species, Doctorate, P.ACAR(Student), 2017

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

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

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

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

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

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

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., 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

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

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., 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

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

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

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

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: İmlications for in situ conservation, Postgraduate, H.ÖZER(Student), 1997

KAYA Z., Single tree genetic linkage mapping of taxusbrevifolia nutt. Based on random applified 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.Hosseyni(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.HOSSEYNİ(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, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)

- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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 San S., Eser V., Nachit M. M., KAYA Z.  
Journal of Agricultural Science, vol.158, pp.47-56, 2020 (SCI-Expanded)
- XI. **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)
- XII. **The utility of NBS-profiling for characterization of yellow rust resistance in an F6 durum wheat population**  
Tufan H. A., Taşkın B. G., McCormack R., Boyd L. A., Kaya Z., Türet M.  
Journal of genetics, vol.98, 2019 (SCI-Expanded)
- XIII. **The utility of NBS-profiling for characterization of yellow rust resistance in an F-6 durum wheat population**  
Tufan H. A., Göçmen Taşkın B., McCormack R., Boyd L. A., KAYA Z., Türet M.  
JOURNAL OF GENETICS, vol.98, no.4, 2019 (SCI-Expanded)
- XIV. **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)
- XV. **Consequences of habitat fragmentation on genetic diversity and structure of *Salix alba L.* populations in two major river systems of Turkey**  
Değirmenci F. O., Acar P., KAYA Z.  
Tree Genetics and Genomes, vol.15, no.4, 2019 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- 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. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **A molecular phylogeny of *Salvia euphratica sensu lato* (*Salvia* L., Lamiaceae) and its closely related species with a focus on the section *Hymenosphace***  
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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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., Sıklar S., Balkız O., KAYA Z.  
SILVAE GENETICA, vol.60, no.6, pp.249-258, 2011 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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 aralayı{dotless}ci{dotless} dizisi kullani{dotless}larak filogenetik akrabali{dotless}klari{dotless}**  
Dizkirici A., KAYA Z., Cabi E., DOĞAN M.  
Turkish Journal of Botany, vol.34, no.6, pp.467-478, 2010 (SCI-Expanded)
- XXXV. **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.  
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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.  
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## 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 nigraSubsp. Pallasiana) Populasyonlarında Genetik Çeşitlilik ve

Akrabalık Düzeyi: Bu Tür Populasyonlarla Yapılacak Ağaçlandırmaların Genetik Uyum Potansiyeli, 2017 - 2018  
KAYA Z., TÜBİTAK 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., TÜBİTAK Project, Türkiye’xxde 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., TÜBİTAK 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., TÜBİTAK Project, Türkiye’xxdeki 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., TÜBİTAK Project, TÜBİTAK 2223 B Yurtiçi Bilimsel Etkinlik Düzenleme Desteği, 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., TÜBİTAK 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., TÜBİTAK 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., TÜBİTAK 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: 126

Citation (WoS): 822

Citation (Scopus): 873

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