

Prof. ZEKİ KAYA

Personal Information

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Education Information

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

Post Graduate, Oregon State University, United States Of America 1980 - 1983

Under Graduate, İstanbul Üniversitesi, 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

Post Graduate, 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

Professional Experience

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

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

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
University Executive Board Member, Middle East Technical University, Graduate School of Natural and Applied Sciences, 2011 - 2014
Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2006 - 2009

Courses

PLANT TISSUE CULTURE, Under Graduate, 2018 - 2019

Advising Theses

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., Genetic diversity pattern in *Populus nigra* populations in two major river systems in Turkey, Doctorate, A.ÇİFTÇİ(Student), 2019
Kaya Z., Genetic characterization of pear cultivars (*Pyrus communis*) in Coruh river watershed, Post Graduate, A.ÇOBAN(Student), 2019
KAYA Z., Genetic characterization of pear cultivars (*Pyrus communis*) in Çoruh river basin, Post Graduate, 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., 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, Post Graduate, N.USTA(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, Post Graduate, S.AYGÜN(Student), 2018
KAYA Z., The effects of sex ratio in estimation of genetic differentiation in *Populus nigra* populations, Post Graduate, B.YELMEN(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., Molecular phylogenetics of Turkish *Salix* L. species, Doctorate, P.ACAR(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, Post Graduate, Y.TOKDEMİR(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, Post Graduate, B.TAŞKIRAN(Student), 2014

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

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

KAYA Z., Genetic diversity of European black poplar (*Populus nigra*) populations from Turkey assessed by microsatellite DNA markers, Post Graduate, 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 phylogenetic position of Turkish abies (*Pinaceae*) based on noncoding trn regions of chloroplast genome, Post Graduate, F.ÖZDEMİR(Student), 2011

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

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

ÖNDE S., KAYA Z., Characterization of taxonomically related some Turkish oak (*Quercus* L.) species in an isolated stand: A morphometric analysis approach, Post Graduate, 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, Post Graduate, A.DEMET(Student), 2009

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

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, Post Graduate, C.ÖZGE(Student), 2007

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

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

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

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

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

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

KAYA Z., Induction of embryogenic tissue and development of somatic embryos in *Pinus brutia* TEN, Doctorate, T.YILDIRIM(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., Genetic characterization of *Pinus nigra* subspecies *pallasiana* varieties, natural populations (seed stands), seed orchards and plantations, Doctorate, B.NAZLIER(Student), 2005

KAYA Z., Characterisation of glutathione S-Transferase activity in Turkish red pine (*Pinus brutia* ten.): Variation in environmentally cold stressed seedlings, Post Graduate, 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., 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., The Pattern of genetic variation of *pinus brutia* ten populations from southern Turkey determined by nuclear SSR markers, Post Graduate, 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., Post Graduate, E.S.(Student), 2001

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

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

KAYA Z., ÖNDE S., The genetic structure of *Cedrus Libani* A. rich populations determined by DNA markers, Post Graduate, 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., Genetic variation in adaptive seedling traits of natural populations of *abies equitrojani aschers. et sint.* from Kazdağı, Doctorate, F.FİLİZ(Student), 2000

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

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

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

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

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

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

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

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

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

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

KAYA Z., Single tree genetic linkage mapping of *Taxus brevifolia* Nutt. Based on random amplified polymorphic DNA(RAPD) markers using DNA from haploid megagametophytes, Post Graduate, 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, Post Graduate, N.Hosseyini(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, Post Graduate, N.HOSSEYNİ(Student), 1994

KAYA Z., Biology of *crocus olivieri* subsp. *olivieri*, Post Graduate, F.FİLİZ(Student), 1994

KAYA Z., Biology of *crocus olivieri* subsp. *olivieri*, Post Graduate, F.Filiz(Student), 1994

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

KAYA Z., In vitro regeneration of Anatolian black pine (*P.nigra* subsp. *pallsiana*) from embryo tissues, Post Graduate, F.GÖKÇE(Student), 1993
KAYA Z., In vitro generation of Anatolian Black Pine (*P.nigra* subsp. *pallsiana*) from embryo tissues, Post Graduate, F.Gökçe(Student), 1993
KAYA Z., Induction of callus from *P.somniferum* and *P.orientale* in vitro conditions, Post Graduate, V.SEYRANTEPE(Student), 1992

Jury Memberships

Appointment Academic Staff, 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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI Expanded)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

- IX. **MOLECULAR PHYLOGENY OF SECTION DROSANTHE (SPACH) ENDL. (HYPERICUM L.) INFERRED FROM CHLOROPLAST GENOME**
Dogan G., Yilmaz A., Bagci E., KAYA Z.
PAKISTAN JOURNAL OF BOTANY, vol.49, no.6, pp.2235-2242, 2017 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)

- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI Expanded)
- XXXI. **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 (Journal Indexed in SCI Expanded)
- XXXII. **Determination of airborne lead contamination in Cichorium intybus L In an urban environment**
Yakupoğlu D., GÜRAY N. T. , Sarica D. Y. , KAYA Z.
Turkish Journal of Botany, vol.32, pp.319-324, 2008 (Journal Indexed in SCI Expanded)
- XXXIII. **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 (Journal Indexed in SCI)

- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **Effects of antimetabolic agents on haploid plant production from unpollinated ovules of sugar beet (*Beta vulgaris* L.)**
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- KAYA Z., TUBITAK Project, Populus euphratica Populasyonlarında Bulunan Genetik Çeşitliliğin Boyutu ve Yapılanması: Türün Olası Habitat Değişikliklerine Göstereceği Uyum, 2017 - Continues
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- 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'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

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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 Desteği, 2014 - 2014

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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

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Activities in Scientific Journals

Tree Genetics & Genomes, Assistant Editor, 2020 - Continues

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

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Scientific Consultations

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