

Prof. FAİK AHMET AYAZ

Personal Information

Email: faa@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr//faa>

Address: Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, 61080 Trabzon

International Researcher IDs

ORCID: 0000-0002-4631-6321

Publons / Web Of Science ResearcherID: AAJ-9805-2021

ScopusID: 7003300707

Yoksis Researcher ID: 8282

Education Information

Post Doctorate, Palacky University & Institute Of Experimental Botany/Plant Physiology-Czech Republic, Czech Republic
2001 - 2002

Doctorate, Karadeniz Technical University, -, Biyoloji, Turkey 1991 - 1999

Postgraduate, Karadeniz Technical University, -, Biyoloji, Turkey 1988 - 1991

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 1984 - 1988

Research Areas

Life Sciences, Plant Biology, Plant Physiology, Plant Growth and Development, Biochemistry, Plant Biochemistry, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 2008 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 2002 - 2007

Research Assistant PhD, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 1999 - 2002

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 1989 - 1999

Advising Theses

AYAZ F. A., Farklı olgunlaşma periyodunun Kokuklu Üzüm (*Vitis labrusca* L.) meyvesinin besin içeriğine olan etkisi, Postgraduate, A.KURT(Student), 2015

AYAZ F. A., Gümüşhane ilinde doğal olarak yetişen Göbek Elma [*Malus sylvestris* (L.) Miller]'sının farklı olgunlaşma periyodunun besin içeriğine olan etkisi, Postgraduate, M.ŞİRİN(Student), 2015

AYAZ F. A., Türkiye'de yaygın olarak yetiştirilen bazı patlıcan (*Solanum melongena* L.) çeşitlerine ait meyvelerin besin içeriklerinin karşılaştırılması, Postgraduate, M.TOPUZ(Student), 2014

AYAZ F. A., İyonize radyasyona maruz bırakılan arpa (*Hordeum vulgare* L.) kök ve sürgünlerine antioksidan muamelesinin fizyolojik ve biyokimyasal düzeyde etkilerinin araştırılması, Postgraduate, N.ÇOLAK(Student), 2013

AYAZ F. A., Tuz stresine maruz bırakılan arpa (*Hordeum vulgare* L.) çeşitlerinde salisilik asit muamelesinin içsel fitohormonlar düzeyinde fizyolojik ve biyokimyasal etkilerinin araştırılması, Doctorate, H.TORUN(Student), 2012

- AYAZ F. A., Mısır (*Zea mays* L.) bitkisinin büyümesini düzenleyen yeni bir genin tanımlanması, Doctorate, F.AYDINOĞLU(Student), 2010
- AYAZ F. A., Tuz stresine maruz bırakılan iki kabak çeşidinde (*Cucurbita pepo* L.) salisilik asit uygulamasıyla gelişen fizyolojik ve biyokimyasal değişimler, Postgraduate, Z.Duygu(Student), 2009
- AYAZ F. A., Muşmula (*Mespilus germanica* L.) Meyvelerinin Olgunlaşması Sırasındaki Polifenol Oksidazın Karakterizasyonu, Postgraduate, Ö.DEMİR(Student), 2006
- AYAZ F. A., Mısır (*Zea mays* cv. B73) yaprağında soğuk stresi etkileri ve gelişim evrelerinde hücre döngüsü genlerinin transkript analizleri, Postgraduate, F.KARTAL(Student), 2006
- AYAZ F. A., Foliar Olarak Ugulanan 24-Epibrassinolidin *Ctenanthe setosa* (Rosc.) Eichler Bitkisinde Kuraklık Stresi sırasında Bazı Fizyolojik ve Biyokimyasal Değişimleri Üzerine Etkisi, Postgraduate, H.TORUN(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Melatonin application enhances salt stress-induced decreases in minerals, betalains, and phenolic acids in beet (*Beta vulgaris* L.) cultivars**
ÇOLAK N., Slatnar A., Medic A., Torun H., Kurt-Celebi A., Dräger G., Djahandideh J., Esatbeyoglu T., AYAZ F. A.
Physiologia Plantarum, vol.176, no.6, 2024 (SCI-Expanded)
- II. **An evaluation of the antioxidant potential and in vitro enzyme inhibition profile of selected bryophytes from Northeast Anatolia (Türkiye)**
YILDIRIM AKATIN M., AYAZ F. A., BOYRACI G. M., ER KEMAL M., BATAN N., ÇOLAK N.
Journal of Biomolecular Structure and Dynamics, 2024 (SCI-Expanded)
- III. **Salicylic acid priming before cadmium exposure increases wheat growth but does not uniformly reverse cadmium effects on membrane glycerolipids**
ÇOLAK N., Kurt-Celebi A., Roth M., Welti R., Torun H., AYAZ F. A.
Plant Biology, 2024 (SCI-Expanded)
- IV. **The chemical profile and seasonal variation of the composition of the phenolic acids in different plant parts of *Centaurea* sp.**
Bouafia M., ÇOLAK N., AYAZ F. A., Gourine N., Yousfi M.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.236, 2023 (SCI-Expanded)
- V. **Pre- and post-melatonin mitigates the effect of ionizing radiation-induced damage in wheat by modulating the antioxidant machinery**
Kurt-Celebi A., ÇOLAK N., Zeljković S. Ć., Tarkowski P., Zengin A. Y., AYAZ F. A.
PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol.204, 2023 (SCI-Expanded)
- VI. **WORLDWIDE DISTRIBUTION AND CLINICAL CHARACTERISTICS OF MAD HONEY POISONING CASES**
GÜNDÜZ A., Şimşek P., AYAZ F. A.
CENTRAL EUROPEAN JOURNAL OF PUBLIC HEALTH, vol.31, no.1, pp.69-73, 2023 (SCI-Expanded)
- VII. **Exogenous melatonin ameliorates ionizing radiation-induced damage by modulating growth, osmotic adjustment and photosynthetic capacity in wheat seedlings**
Kurt-Celebi A., Çolak N., Torun H., Dosedělová V., Tarkowski P., Ayaz F. A.
PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol.187, pp.67-76, 2022 (SCI-Expanded)
- VIII. **An evaluation of volatiles and phenolic compounds in conjunction with the antioxidant capacity of endemic endangered species of *Erodium hendrikii* Alpınar**
Cüce M., ÇOLAK N., Ćavar Zeljković S., Tarkowski P., Strnad M., Gruz J., Vehbi İmamoğlu K., AYAZ F. A.
South African Journal of Botany, vol.149, pp.458-467, 2022 (SCI-Expanded)
- IX. **The Phenolics and Antioxidant Properties of Black and Purple versus White Eggplant Cultivars**
ÇOLAK N., Kurt-Celebi A., Gruz J., Strnad M., Hayirlioglu-Ayaz S., Choung M., Esatbeyoglu T., AYAZ F. A.
MOLECULES, vol.27, no.8, 2022 (SCI-Expanded)
- X. **The Effects of Exogenous Salicylic Acid on Endogenous Phytohormone Status in *Hordeum vulgare* L. under Salt Stress**
Torun H., Novák O., Mikulík J., Strnad M., AYAZ F. A.

Plants, vol.11, no.5, 2022 (SCI-Expanded)

- XI. **<i>Vitis vinifera</i> Turkish novel table grape 'Karaerik'. Part II: Non-anthocyanin phenolic composition and antioxidant capacity**
Perez-Navarro J., Hermosin-Gutierrez I., Gomez-Alonso S., Kurt-Celebi A., Çolak N., Hayirlioglu-Ayaz S., Ayaz F. A., Akpınar E.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.102, no.2, pp.813-822, 2022 (SCI-Expanded)
- XII. **The optimization of ultrasonic-assisted extraction of Centaurea sp. antioxidative phenolic compounds using response surface methodology**
Bouafia M., ÇOLAK N., AYAZ F. A., Benarfa A., Harrat M., Gourine N., Yousfi M.
JOURNAL OF APPLIED RESEARCH ON MEDICINAL AND AROMATIC PLANTS, vol.25, 2021 (SCI-Expanded)
- XIII. **The protective effect of exogenous salicylic and gallic acids ameliorates the adverse effects of ionizing radiation stress in wheat seedlings by modulating the antioxidant defence system**
Colak N., Kurt-Celebi A., Fauzan R., Torun H., Ayaz F. A.
Plant Physiology and Biochemistry, vol.168, pp.526-545, 2021 (SCI-Expanded)
- XIV. **The biogenic amine and mineral contents of different milling fractions of bread and durum wheat (Triticum L.) cultivars**
Karayigit B., ÇOLAK N., ÖZOĞUL F., GÜNDOĞDU A., İNCEER H., Bilgicli N., AYAZ F. A.
FOOD BIOSCIENCE, vol.37, 2020 (SCI-Expanded)
- XV. **Accumulation of Phenolic Compounds and Antioxidant Capacity during Berry Development in Black 'Isabel' Grape (<i>Vitis vinifera</i>L. x<i>Vitis labrusca</i>L.)**
Kurt-Celebi A., Çolak N., Hayirlioglu-Ayaz S., Velickovska S. K., Ilieva F., Esatbeyoglu T., Ayaz F. A.
MOLECULES, no.17, 2020 (SCI-Expanded)
- XVI. **Timing-dependent effects of salicylic acid treatment on phytohormonal changes, ROS regulation, and antioxidant defense in salinized barley (Hordeum vulgare L.)**
Torun H., Novak O., Mikulik J., Pencik A., Strnad M., AYAZ F. A.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- XVII. **<i>Vitis vinifera</i> Turkish grape cultivar Karaerik. Part I: anthocyanin composition, and identification of a newly found anthocyanin[†]**
Hermosin-Gutierrez I., Gomez-Alonso S., Perez-Navarro J., KURT A., ÇOLAK N., AKPINAR E., Hayirlioglu-Ayaz S., AYAZ F. A.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, no.3, pp.1301-1310, 2020 (SCI-Expanded)
- XVIII. **Effect of N-acetyl-L-cysteine (NAC) on soluble sugar and polyamine content in wheat seedlings exposed to heavy metal stress (Cd, Hg and Pb)**
ÇOLAK N., Tarkowski P., AYAZ F. A.
BOTANICA SERBICA, vol.44, no.2, pp.191-201, 2020 (SCI-Expanded)
- XIX. **Exogenous N-Acetylcysteine alleviates heavy metal stress by promoting phenolic acids to support antioxidant defence systems in wheat roots**
ÇOLAK N., Torun H., Gruz J., Strnad M., AYAZ F. A.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.181, pp.49-59, 2019 (SCI-Expanded)
- XX. **Synthesis, biological activity and structure activity relationship studies of novel conazole analogues via conventional, microwave and ultrasound mediated techniques**
MERMER A., DEMİRBAŞ N., DEMİRBAŞ A., ÇOLAK N., AYAZ F. A., Alagumuthu M., Arumugam S.
BIOORGANIC CHEMISTRY, vol.81, pp.55-70, 2018 (SCI-Expanded)
- XXI. **Microwave-Assisted Synthesis, Antioxidant, and Antimicrobial Evaluation of Piperazine-Azole-Fluoroquinolone Based 1,2,4-Triazole Derivatives**
OZDEMİR S. B., DEMİRBAŞ N., DEMİRBAŞ A., AYAZ F. A., ÇOLAK N.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.55, no.12, pp.2744-2759, 2018 (SCI-Expanded)
- XXII. **Design, Microwave-Assisted and Conventional Synthesis of New Hybrid Compounds Derived From 1-(4-Fluorophenyl)piperazine and Screening for Their Biological Activities**
OZDEMİR S. B., DEMİRBAŞ N., DEMİRBAŞ A., ÇOLAK N., AYAZ F. A.
CHEMISTRYSELECT, vol.3, no.7, pp.2144-2151, 2018 (SCI-Expanded)

- XXIII. **Enzyme inhibitory and antioxidant activities of Nerium oleander L. flower extracts and activity guided isolation of the active components**
Balkan I. A., Dogan H. T., Zengin G., ÇOLAK N., AYAZ F. A., Goren A. C., KIRMIZIBEKMEZ H., YEŞİLADA E.
INDUSTRIAL CROPS AND PRODUCTS, vol.112, pp.24-31, 2018 (SCI-Expanded)
- XXIV. **Novel Azole-Functionalized Flouroquinolone Hybrids: Design, Conventional and Microwave Irradiated Synthesis, Evaluation as Antibacterial and Antioxidant Agents**
MENTEŞE M., DEMİRBAŞ N., MERMER A., Demirci S., DEMİRBAŞ A., AYAZ F. A.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.15, no.1, pp.46-64, 2018 (SCI-Expanded)
- XXV. **Phenolic compounds and antioxidant capacity in different-colored and non-pigmented berries of bilberry (*Vaccinium myrtillus* L.)**
ÇOLAK N., Primetta A. K., Riihinen K. R., Jaakola L., Gruz J., Strnad M., TORUN H., AYAZ F. A.
FOOD BIOSCIENCE, vol.20, pp.67-78, 2017 (SCI-Expanded)
- XXVI. **Nutrient profiles of the hybrid grape cultivar 'Isabel' during berry maturation and ripening**
KURT A., Torun H., ÇOLAK N., Seiler G., HAYIRLIOĞLU-AYAZ S., AYAZ F. A.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, no.8, pp.2468-2479, 2017 (SCI-Expanded)
- XXVII. **Conventional and Microwave-assisted Total Synthesis, Antioxidant Capacity, Biological Activity, and Molecular Docking Studies of New Hybrid Compounds**
Demirci S., MERMER A., AK G., Aksakal F., ÇOLAK N., DEMİRBAŞ A., AYAZ F. A., DEMİRBAŞ N.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.54, no.3, pp.1785-1805, 2017 (SCI-Expanded)
- XXVIII. **Conventional and microwave irradiated synthesis, biological activity evaluation and molecular docking studies of highly substituted piperazine-azole hybrids**
MERMER A., Demirci S., OZDEMİR S. B., DEMİRBAŞ A., ULKER S., AYAZ F. A., Aksakal F., DEMİRBAŞ N.
CHINESE CHEMICAL LETTERS, vol.28, no.5, pp.995-1005, 2017 (SCI-Expanded)
- XXIX. **Nutritional Evaluation of an Outstanding Apple Cultivar, Göbek (*Malus /i i /i i communis /i L.*)**
Çolak N., Kolcuoğlu Y., Tarkowski P., Benicka S., Çolak A., Ayaz S., Ayaz F. A.
Journal Of Food And Nutrition Research, vol.5, no.12, pp.874-881, 2017 (SCI-Expanded)
- XXX. **Comparison of Phenolics and Phenolic Acid Profiles in Conjunction with Oxygen Radical Absorbing Capacity (ORAC) in Berries of *Vaccinium arctostaphylos* L. and *V. myrtillus* L.**
ÇOLAK N., Torun H., Gruz J., Strnad M., SUBRTOVA M., İNCEER H., AYAZ F. A.
POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES, vol.66, no.2, pp.85-91, 2016 (SCI-Expanded)
- XXXI. **Bog bilberry phenolics, antioxidant capacity and nutrient profile**
ÇOLAK N., TORUN H., GRUZ J., STRNAD M., Hermosin-Gutierrez I., HAYIRLIOĞLU-AYAZ S., AYAZ F. A.
FOOD CHEMISTRY, pp.339-349, 2016 (SCI-Expanded)
- XXXII. **Achene Fatty Acid Composition in the Tribe Anthemideae (Asteraceae)**
AYAZ F. A., İNCEER H., Hayirlioglu-Ayaz S., AKSU-KALMUK N.
ROMANIAN BIOTECHNOLOGICAL LETTERS, no.3, pp.11576-11584, 2016 (SCI-Expanded)
- XXXIII. **Fatty acid composition of achenes of *Cirsium taxa* (Asteraceae, Carduoideae) from Turkey**
Ozcan M., AYAZ F. A., ÖZOĞUL Y., Glew R., ÖZOĞUL F.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.71, pp.45-54, 2016 (SCI-Expanded)
- XXXIV. **Comparison of Nutrient Content in Fruit of Commercial Cultivars of Eggplant (*Solanum melongena* L.)**
AYAZ F. A., ÇOLAK N., TOPUZ M., Tarkowski P., Jaworek P., Seiler G., İNCEER H.
POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES, vol.65, no.4, pp.251-259, 2015 (SCI-Expanded)
- XXXV. **The effect of anthocyanin-rich bilberry extract on the antioxidant system in roots of barley (*Hordeum vulgare* L.) cultivars under ionizing radiation**
ÇOLAK N., ZENGİN A. Y., AYAZ F. A.
ACTA PHYSIOLOGIAE PLANTARUM, vol.37, no.9, 2015 (SCI-Expanded)
- XXXVI. **Evaluation of chemical profile and antioxidant activity of *Tripleurospermum insular*, a new species from Turkey**
İNCEER H., Zeljkovic S. C., AYAZ F. A., AYAZ S., ÇOLAK N.

- NATURAL PRODUCT RESEARCH, vol.29, pp.293-296, 2015 (SCI-Expanded)
- XXXVII. **Examination using LC-MS/MS determination of grayanotoxin levels in blood, urine, and honey consumed by patients presenting to the emergency department with mad honey intoxication and relations with clinical data: a preliminary study**
AYGUN A., GÜNDÜZ A., TÜREDİ S., TURKMEN S., KARACA Y., AYAZ F. A., AHN S. Y., KIM S.
ANNALS OF SAUDI MEDICINE, vol.35, no.2, pp.161-164, 2015 (SCI-Expanded)
- XXXVIII. **Evaluation of chemical profile and antioxidant activity of *Tripleurospermum insularum*, a new species from Turkey**
ZELJKOVIC S. C., AYAZ F. A., İNCEER H., Hayirlioglu-Ayaz S., ÇOLAK N.
NATURAL PRODUCT RESEARCH, no.3, pp.293-296, 2015 (SCI-Expanded)
- XXXIX. **Characterization of polyphenol oxidase during three ripening stages of an eggplant (*Solanum melongena* L.) fruit: a local type in northeast Anatolia**
Torun H., KOLCUOĞLU Y., AYAZ F. A., ÇOLAK A., Glew R. H.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.1, pp.44-50, 2015 (SCI-Expanded)
- XL. **Mad Honey The Reality**
GÜNDÜZ A., AYAZ F. A.
HONEY IN TRADITIONAL AND MODERN MEDICINE, vol.11, pp.359-379, 2014 (SCI-Expanded)
- XLI. **Anthocyanin fingerprinting for authenticity studies of bilberry (*Vaccinium myrtillus* L.)**
PRIMETTA A. K., Jaakola L., AYAZ F. A., İNCEER H., RIIHINEN K. R.
FOOD CONTROL, vol.30, no.2, pp.662-667, 2013 (SCI-Expanded)
- XLII. **The effect of the geographical variation on the sugar composition of oriental beech (*Fagus orientalis* Lipsky)**
GÜNEY D., Bak Z. D., Aydinoglu F., TURNA İ., AYAZ F. A.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.37, pp.221-230, 2013 (SCI-Expanded)
- XLIII. **Effect of geographical variation on the sugar composition of the oriental beech (*Fagus orientalis* Lipsky)**
GÜNEY D., Bak Z. D., Aydinoglu F., TURNA İ., AYAZ F. A.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.37, no.2, pp.221-230, 2013 (SCI-Expanded)
- XLIV. **PSEUDOCHOLINESTERASE LEVELS ARE NOT DECREASED IN GRAYANOTOXIN (MAD HONEY) POISONING IN MOST PATIENTS**
GÜNDÜZ A., KALKAN A., TÜREDİ S., DURMUŞ İ., Turkmen S., AYAZ F. A., AYAR A.
JOURNAL OF EMERGENCY MEDICINE, vol.43, no.6, pp.1008-1013, 2012 (SCI-Expanded)
- XLV. **Fatty Acid Composition of 12 Fish Species from the Black Sea**
HUANG L. - C., BÜLBÜL U., WEN P. -, Glew R. H., AYAZ F. A.
JOURNAL OF FOOD SCIENCE, vol.77, no.5, 2012 (SCI-Expanded)
- XLVI. **An *Atropa belladonna* L. poisoning with acute subdural hematoma**
ÇIKLA U., Turkmen S., KARACA Y., Ayaz A. F., TÜREDİ S., GÜNDÜZ A.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.30, no.12, pp.1998-2001, 2011 (SCI-Expanded)
- XLVII. **Fatty acid and amino acid compositions of selected wild-edible mushrooms consumed in Turkey**
Ayaz F. A., CHUANG L. T., Torun H., ÇOLAK A., Sesli E., PRESLEY J., SMITH B. R., Glew R. H.
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.62, no.4, pp.328-335, 2011 (SCI-Expanded)
- XLVIII. ***Fagus orientalis* (Oriental Beechnut) Seeds are a Good Source of Essential Fatty Acids, Amino Acids and Minerals**
AYAZ F. A., GLEW R. H., TURNA İ., GÜNEY D., CHANG L., CHANG Y., ANDREWS R., POWER L., PRESLEY J., TORUN H., et al.
FOOD, vol.5, pp.48-51, 2011 (SCI-Expanded)
- XLIX. **Nutritional value of some wild edible mushrooms from the Black Sea region (Turkey)**
AYAZ F. A., TORUN H., Ozel A., COL M., DURAN C., Sesli E., ÇOLAK A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, no.4, pp.385-393, 2011 (SCI-Expanded)
- L. **Phenolic acid content and radical scavenging activity of extracts from medlar (*Mespilus germanica* L.) fruit at different stages of ripening**

GRUZ J., AYAZ F. A., TORUN H., STRNAD M.

FOOD CHEMISTRY, vol.124, no.1, pp.271-277, 2011 (SCI-Expanded)

- LI. **Nutritional value of some wild edible mushrooms from Black Sea Region (Turkey)**
AYAZ F. A., Torun H., Ozel A., Col M., DURAN C., Sesli E., ÇOLAK A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, no.3, pp.213-221, 2011 (SCI-Expanded)
- LII. **DNA binding, antioxidant and antimicrobial activities of homo- and heteronuclear copper(II) and nickel(II) complexes with new oxime-type ligands**
ÇOLAK A., TERZI U., COL M., KARAOGLU S. A., KARABÖCEK S., KUCUKDURLU A., Ayaz F. A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.45, no.11, pp.5169-5175, 2010 (SCI-Expanded)
- LIII. **INORGANIC AND ORGANIC SOLUTES IN APOPLASTIC AND SYMPLASTIC SPACES CONTRIBUTE TO OSMOTIC ADJUSTMENT DURING LEAF ROLLING IN CTENANTHE SETOSA**
SAĞLAM A., TERZİ R., NAR H., Saruhan N., AYAZ F. A., KADIOĞLU A.
ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, vol.52, no.1, pp.37-44, 2010 (SCI-Expanded)
- LIV. **Nutrient Content of Carob Pod (*Ceratonia siliqua* L.) Flour Prepared Commercially and Domestically**
AYAZ F. A., Torun H., Glew R. H., BAK Z. D., CHUANG L. T., PRESLEY J. M., ANDREWS R.
PLANT FOODS FOR HUMAN NUTRITION, vol.64, no.4, pp.286-292, 2009 (SCI-Expanded)
- LV. **Characterization of Anthocyanins in Caucasian Blueberries (*Vaccinium arctostaphylos* L.) Native to Turkey**
Latti A. K., Kainulainen P. S., Hayirlioglu-Ayaz S., AYAZ F. A., Riihinen K. R.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, no.12, pp.5244-5249, 2009 (SCI-Expanded)
- LVI. **Clinical review of grayanotoxin/mad honey poisoning past and present**
GÜNDÜZ A., TÜREDİ S., RUSSELL R. M., AYAZ F. A.
CLINICAL TOXICOLOGY, vol.46, no.5, pp.437-442, 2008 (SCI-Expanded)
- LVII. **Phenolic acid contents of kale (*Brassica oleraceae* L. var. *acephala* DC.) extracts and their antioxidant and antibacterial activities**
AYAZ F. A., Hayirlioglu-Ayaz S., Alpay-Karaoglu S., GRUZ J., VALENTOVA K., ULRICHOVA J., STRNAD M.
FOOD CHEMISTRY, no.1, pp.19-25, 2008 (SCI-Expanded)
- LVIII. **Characterization of polyphenoloxidase (PPO) and total phenolic contents in medlar (*Mespilus germanica* L.) fruit during ripening and over ripening**
Ayaz F. A., DEMIRA O., TORUN H., Kolcuoglu Y., COLAK A.
FOOD CHEMISTRY, vol.106, no.1, pp.291-298, 2008 (SCI-Expanded)
- LIX. **Determination of chemical composition of anatolian carob pod (*Ceratonia siliqua* L.): Sugars, amino and organic acids, minerals and phenolic compounds**
Ayaz F. A., TORUN H., Ayaz S., CORREIA P. J., ALAIZ M., SANZ C., GRUZ J., STRNAD M.
JOURNAL OF FOOD QUALITY, vol.30, no.6, pp.1040-1055, 2007 (SCI-Expanded)
- LX. **Purification and characterization of a highly thermostable alpha-L-Arabinofuranosidase from *Geobacillus caldolyolyticus* TK4**
Canakci S., Belduz A. O., SAHA B. C., Yasar A., Ayaz F. A., Yayli N.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.75, no.4, pp.813-820, 2007 (SCI-Expanded)
- LXI. **Morphometric and electrophoretic analysis of 13 populations of Anatolian black pine in Turkey**
Turna I., Yahyaoglu Z., Yuksek F., Ayaz F., Guney D.
JOURNAL OF ENVIRONMENTAL BIOLOGY, vol.27, no.3, pp.491-497, 2006 (SCI-Expanded)
- LXII. **Nutrient contents of kale (*Brassica oleraceae* L. var. *acephala* DC.)**
Ayaz F., Glew R., Millson M., Huang H., Chuang L., Sanz C., Hayirlioglu-Ayaz S.
FOOD CHEMISTRY, no.4, pp.572-579, 2006 (SCI-Expanded)
- LXIII. **Separation, characterization, and quantitation of phenolic acids in a little-known blueberry (*Vaccinium arctostaphylos* L.) fruit by HPLC-MS**
Ayaz F. A., Hayirlioglu-Ayaz S., GRUZ J., NOVAK O., STRNAD M.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, no.21, pp.8116-8122, 2005 (SCI-Expanded)
- LXIV. **Changes in sugars, acids and fatty acids in naturally parthenocarpic date plum persimmon (*Diospyros lotus* L.) fruit during maturation and ripening**

- GLEW R., Ayaz F. A., MILLSON M., HUANG H., CHUANG L., SANZ C., GOLDING J.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.221, pp.113-118, 2005 (SCI-Expanded)
- LXV. **Diphenolases from two cultivars of cherry laurel (*Laurocerasus officinalis* Roem.) fruits at an early stage of maturation**
Colak A., Ozen A., Dincer B., Guner S., Ayaz F.
FOOD CHEMISTRY, vol.90, no.4, pp.801-807, 2005 (SCI-Expanded)
- LXVI. **Diphenolase from two cultivars of cherry laurel (*Laurocerasus officinalis* Roem.) fruits at early stage of maturation**
ÇOLAK A., Özen A., Dinçer B., Güner S., Ayaz F. A.
Food Chem., vol.90, pp.801-807, 2005 (SCI-Expanded)
- LXVII. **Changes in sugar composition in cherry laurel (*CV oxygemmis*) fruit during development and ripening**
Var M., Ayaz F. A.
PAKISTAN JOURNAL OF BOTANY, vol.36, no.2, pp.389-394, 2004 (SCI-Expanded)
- LXVIII. **Changes in sugars, organic acids and amino acids in medlar (*Mespilus germanica* L.) during fruit development and maturation**
GLEW R., Ayaz F. A., SANZ C., VANDERJAGT D., HUANG H., CHUANG L., STRNAD M.
FOOD CHEMISTRY, vol.83, no.3, pp.363-369, 2003 (SCI-Expanded)
- LXIX. **A research note mineral composition of medlar (*Mespilus germanica*) fruit at different stages of maturity**
Glew R., Ayaz F., Vanderjagt D., Millson M., Dris R., Niskanen R.
JOURNAL OF FOOD QUALITY, vol.26, no.5, pp.441-447, 2003 (SCI-Expanded)
- LXX. **Total phenols and condensed tannins in the leaves of some Anthemideae species from Northeast Anatolia**
Ayaz F. A., Hayirliolu-Ayaz S., Inceer H.
BIOLOGIA, vol.58, no.4, pp.861-865, 2003 (SCI-Expanded)
- LXXI. **Effect of postharvest period on sugars, organic acids and fatty acids composition in commercially sold medlar (*Mespilus germanica* 'Dutch') fruit**
GLEW R., Ayaz F. A., SANZ C., VANDERJAGT D., HUANG H., CHUANG L., STRNAD M.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.216, no.5, pp.390-394, 2003 (SCI-Expanded)
- LXXII. **Evolution of fatty acids in medlar (*Mespilus germanica* L.) mesocarp at different stages of ripening**
Ayaz F., Glew R., Huang H., Chuang L., Vanderjagt D., Strnad M.
GRASAS Y ACEITES, vol.53, no.3, pp.352-356, 2002 (SCI-Expanded)
- LXXIII. **Total phenolics variation in leaves of some *Hieracium* L. and *Pilosella* Hill. species**
Ayaz F. A., Coskuncelebi K.
ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, vol.44, pp.175-179, 2002 (SCI-Expanded)
- LXXIV. **Fatty acid composition of medlar (*Mespilus germanica* L.) fruit at different stages of development**
Ayaz F. A., HUANG H., CHUANG L., VANDERJAGT D., GLEW R.
ITALIAN JOURNAL OF FOOD SCIENCE, vol.14, no.4, pp.439-446, 2002 (SCI-Expanded)
- LXXV. **Sugar and phenolic acid composition of stored commercial oleaster fruits**
Ayaz F. A., BERTOFT E.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.14, no.5, pp.505-511, 2001 (SCI-Expanded)
- LXXVI. **Total phenols and condensed tannins in the leaves of some *Alchemilla* species**
Ayaz F. A., Hayirliolu-Ayaz S.
BIOLOGIA, no.4, pp.449-453, 2001 (SCI-Expanded)
- LXXVII. **Volatile components of *Arbutus unedo* L. fruits by GC MS**
Yayli N., Ayaz F., Kucukislamoglu M., Aytekin A.
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY, vol.40, no.2, pp.173-176, 2001 (SCI-Expanded)
- LXXVIII. **Leaf rolling effects on lipid and fatty acid composition in *Ctenanthe setosa* (Marantaceae) subjected to water-deficit stress**

- Ayaz F. A., Kadioglu A., DOGRU A.
ACTA PHYSIOLOGIAE PLANTARUM, vol.23, no.1, pp.43-47, 2001 (SCI-Expanded)
- LXXXIX. **Changes in phenolic acids of cherry laurel (*Laurocerasus officinalis* 'Oxygemmis') fruit during maturation**
Ayaz F. A.
ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, vol.43, pp.23-26, 2001 (SCI-Expanded)
- LXXX. **Changes in fatty acid composition of cherry laurel (*Laurocerasus officinalis* 'Globigemmis') fruit during maturation**
Ayaz F. A., Kadioglu A.
NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE, vol.28, no.3, pp.209-212, 2000 (SCI-Expanded)
- LXXXI. **Fatty acid composition in leaf lipids of some *Carex* L. (Cyperaceae) species from Northeast Anatolia (Turkey)**
Ayaz F. A., OLGUN A.
GRASAS Y ACEITES, vol.51, no.5, pp.307-310, 2000 (SCI-Expanded)
- LXXXII. **Ayaz FA, Küçükislamoglu M, Reunanen M. Sugars, nonvolatile and phenolic acids composition of strawberry tree (*Arbutus unedo* L.) fruits.**
AYAZ F. A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.13, pp.171-177, 2000 (SCI-Expanded)
- LXXXIII. **Water stress effects on the content of low molecular weight carbohydrates and phenolic acids in *Ctenanthe setosa* (Rosc.) Eichler**
Ayaz F. A., Kadioglu A., Turgut R.
CANADIAN JOURNAL OF PLANT SCIENCE, vol.80, no.2, pp.373-378, 2000 (SCI-Expanded)
- LXXXIV. **Fatty acid compositional changes in developing persimmon (*Diospyros lotus* L.) fruit**
Ayaz F. A., Kadioglu A.
NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE, vol.27, no.3, pp.257-261, 1999 (SCI-Expanded)
- LXXXV. **Ayaz FA, Kadioglu A, Dogru A. Soluble sugar composition of *Elaeagnus angustifolia* L. var. *orientalis* (L.) Kuntze (Russian-olive)**
AYAZ F. A.
Turkish Journal of Botany, vol.23, pp.349-354, 1999 (SCI-Expanded)
- LXXXVI. **Fatty acid composition of leaf lipids of some *Alchemilla* L. (Rosaceae) species from Northeast Anatolia (Turkey)**
Ayaz F. A., Hayirlioglu-Ayaz S., BEYAZOGLU O.
GRASAS Y ACEITES, no.5, pp.341-344, 1999 (SCI-Expanded)
- LXXXVII. **Soluble Sugar Composition of *Elaeagnus angustifolia* L. Var *orientalis* (L.) Kuntze (Russian-Olive) Fruits**
AYAZ F. A., KADIOĞLU A.
Turkish Journal of Botany, vol.23, pp.349-354, 1999 (SCI-Expanded)
- LXXXVIII. **determination of some Low Molecular Weight Carbohydrates from the Fruits of cherry Laurel (*Laurocerasus officinalis* Roem) Using Gas Chromatography**
AYAZ F. A., KADIOĞLU A., AYAZ S.
Turkish Journal of Botany, vol.22, pp.65-68, 1998 (SCI-Expanded)
- LXXXIX. **Determination of carboxylic acids in the fruits of *Laurocerasus officinalis* Roem. and its cultivars**
Ayaz F., Reumanen M., Kucukislamoglu M., Var M.
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY, vol.37, no.10, pp.1083-1086, 1998 (SCI-Expanded)
- XC. **Ayaz FA, Kadioglu, A. Nonvolatile acid composition during fruit development of *Diospyros lotus* L.**
AYAZ F. A.
Turkish Journal of Botany, vol.22, pp.69-72, 1998 (SCI-Expanded)
- XCI. **Ayaz FA, Kadioglu A, Hayirlioglu-Ayaz S. Determination of some low molecular weight carbohydrates**

- in the fruits of wild cherry laurel (*Laurocerasus officinalis* Roem.) using gas chromatography.**
AYAZ F. A.
Turkish Journal of Botany, vol.22, pp.65-68, 1998 (SCI-Expanded)
- XCII. Nonvolatile Acid composition During Fruit Development of *Diospyros lotus***
AYAZ F. A., KADIOĞLU A.
Turkish Journal of Botany, vol.22, pp.69-72, 1998 (SCI-Expanded)
- XCIII. Studies on water soluble sugar and sugar alcohol in cultivars and wild forms of *Laurocerasus officinalis* Roem.**
Ayaz F. A.
PAKISTAN JOURNAL OF BOTANY, vol.29, no.2, pp.331-336, 1997 (SCI-Expanded)
- XCIV. Changes in phenolic acid contents of *Diospyros lotus* L during fruit development**
Ayaz F. A., Kadioglu A., REUNANEN M.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.45, no.7, pp.2539-2541, 1997 (SCI-Expanded)
- XCv. Phenolic Acid and Fatty acid Composition in the Fruits of *laurocerasus officinalis* Roem., and Its Cultivars**
AYAZ F. A., KADIOĞLU A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.10, pp.350-357, 1997 (SCI-Expanded)
- XCvI. Effects of Heavy Metals (Zn, Cd, Cu and Hg) on the Soluble Protein Bands Germinating *Lens esculenta* L. Seeds**
AYAZ F. A., KADIOĞLU A.
Turkish Journal of Botany, vol.21, pp.85-88, 1997 (SCI-Expanded)
- XCvII. Ayaz FA, Kadioglu A, Reunanen M, Var M. Sugar composition in fruits of *Laurocerasus officinalis* Roem. and its cultivars**
AYAZ F. A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.10, pp.82-86, 1997 (SCI-Expanded)
- XCvIII. Ayaz FA, Kadioglu A. Effect of heavy metals (Zn, Cd, Cu and Hg) on the soluble protein bands of germinating *Lens esculenta* L. seeds.**
AYAZ F. A.
Turkish Journal of Botany, vol.21, pp.85-88, 1997 (SCI-Expanded)
- XCIX. Sugar Composition in Fruits of *Laurocerasus Officinalis* Roem., and Its Three Cultivars**
AYAZ F. A., KADIOĞLU A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.10, pp.82-86, 1997 (SCI-Expanded)
- C. Ayaz FA, Kadioglu A, Reunanen M. Phenolic acid and fatty acid composition in the fruits of *Laurocerasus officinalis* Roem. and its three cultivars**
AYAZ F. A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.10, pp.350-357, 1997 (SCI-Expanded)
- CI. Determination of seed fatty acids in *Consolida* species by GC-MS**
Ayaz F. A., REUNANEN M., KUCUKISLAMOGLU M.
PAKISTAN JOURNAL OF BOTANY, vol.28, no.2, pp.155-159, 1996 (SCI-Expanded)
- CII. Seed fatty acid composition in wild form and cultivars of *Laurocerasus officinalis* Roem**
Ayaz F. A., Reunanen M., KÜÇÜKİSLAMOĞLU M., Var M.
PAKISTAN JOURNAL OF BOTANY, vol.27, no.2, pp.305-308, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **Taxonomic Evaluations of the Achene Fatty Acid Composition of Three Morphologically Similar *Tripleurospermum* (Asteraceae) Species**
Inceer H., Ayaz F. A.
Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi, vol.27, no.1, pp.108-113, 2024 (ESCI)
- II. **Tuz stresi koşullarında salisilik asidin zamana bağlı uygulanmasının arpa (*Hordeum vulgare* L.)**

köklerinin antioksidan savunma sistemi üzerine etkileri

TORUN H., AYAZ F. A.

ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY –C Life Sciences and Biotechnology, vol.8, no.1, pp.69-84, 2019 (Peer-Reviewed Journal)

- III. **A nutritional evaluation of the berry of a new grape: 'Karaerik' (Vitis vinifera L.)**
KURT A., ÇOLAK N., Bengü A. S., Gundoğdu A., Akpınar E., Hayirlioglu-Ayaz S., AYAZ F. A.
International Journal of Food Studies, vol.7, no.2, pp.98-116, 2018 (Scopus)
- IV. **ANTIOXIDANT CAPACITY OF PHENOLICS IN SOME REPRESENTATIVES OF THE TRIBE ANTHEMIDEAE (ASTERACEAE) FROM TURKEY**
ÇOLAK N., İNCEER H., Griz J., Strnad M., HayırhoğluAyaz S., AKSU KALMUK N., AYAZ F. A.
International Journal of Pharmaceutical Sciences and Research, vol.8, no.8, pp.3265-3277, 2017 (ESCI)
- V. **Phenolic acid content and free radical-scavenging activity of two differently processed carob tree (Ceratonia siliqua L.) pod**
TORUN H., AYAZ F. A., ÇOLAK N., Gruz J., Strnad M.
Food and Nutrition Sciences, vol.4, pp.547-553, 2013 (Peer-Reviewed Journal)
- VI. **An electroforetic analysis of the seed proteins of some Vicia L species from northeast Anatolia**
AYAZ F. A., İNCEER H., HayırliogluAyaz S.
Pakistan Journal of Biological Sciences, vol.2, no.4, pp.1139-1142, 1999 (Scopus)
- VII. **Phenolic Acid Fatty Acid Composition in the Fruits of Laurocerasus officinalis Roem. and Its Cultivars**
VAR M., KADIOĞLU A., AYAZ F. A., Reumanen M.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, no.10, pp.1-6, 1997 (Scopus)
- VIII. **Sugar Composition in Fruits of Laurocerasus officinalis Roem.and Its Three Cultivars**
AYAZ F. A., KADIOĞLU A., Reunanen M., VAR M.
J.Food Comp.Anal., no.10, pp.82-86, 1997 (Peer-Reviewed Journal)
- IX. **Ayaz FA, Kadioglu A, Hayirlioglu S. Determination of some mono- and disaccharides in the fruits of Diospyros lotus L. using gas chromatography**
AYAZ F. A.
Turkish Journal of Botany, vol.20, pp.503-506, 1996 (Scopus)
- X. **Effect of Heavy Metal on the Isoenzymes of Amylase and Peroxidase During Germination of Lentil (Lens esculante L.)**
AYAZ F. A., KADIOĞLU A.
Turkish Journal of Botany, vol.20, pp.503-506, 1996 (Scopus)
- XI. **Determination of Some Mono- and Disaccharides in the Fruits of Diospyros lotus L. Using Gas Chromatography**
AYAZ F. A., KADIOĞLU A., AYAZ S.
TURKISH JOURNAL OF BOTANY, vol.19, pp.493-495, 1995 (Scopus)

Books & Book Chapters

- I. **Bitki Hücrelerinin Moleküler İçeriği**
AYAZ F. A.
in: Bitki Biyolojisi, İsmail TÜRKAN (Çev. Ed.) (Ray F. Evert; Susan E. Eichhorn), Editor, Palme, Ankara, pp.18-37, 2016
- II. **Bitki Biyokimyası**
AYAZ F. A., SÖKMEN A.
Nobel Akademik Yayıncılık Eğitim Danışmanlık, Ankara, 2015
- III. **Grayanotoksinlerin (GTX) Kimyasal Yapısı ve Analitik Belirleme Yöntemlerine Genel bir Bakış**
AYAZ F. A.
in: Bal ve Deli Bal, Gündüz A, Editor, Nobel Tıp Kitapevleri, Ankara, pp.45-51, 2015

- IV. **Grayanotoksinlerin (Gtx) Kimyasal Yapısı Ve Analitik Belirleme Yöntemlerine Genel Bir Bakış**
AYAZ F. A., ÇOLAK N., KURT A.
in: Bal ve Deli Bal, Gündüz A, Editor, Nobel Tıp Kitapevleri, Ankara, pp.45-51, 2015
- V. **Grayanotoksinlerin (Gtx) Kimyasal Yapısı Ve Analitik Belirleme Yöntemlerine Genel Bir Bakış**
AYAZ F. A., ÇOLAK N., KURT A.
in: BAL VE DELİ BAL, GÜNDÜZ ABDULKADİR, Editor, NOBEL TIP KİTAPLARI, pp.45-51, 2015
- VI. **Protein biyosentezi bir hücrenin üç farklı yerinde gerçekleşir**
SAĞLAM ERTUNGA N., Cenkci S., SÖKMEN A., ünyayar s., ÇOLAK A., AYAZ F. A., atıcı ö., yıldız m., çolak n., özen h. ç., et al.
in: Bitki Biyokimyası, Ayaz FA., Sökmen A., Editor, Nobel Akademik Yayıncılık, Ankara, pp.527-549, 2015
- VII. **Mad Honey: The Reality**
AYAZ F. A.
in: Honey in Traditional and Modern Medicine, Boukraa L, Editor, Crc Press Taylor & Francis Icon Group International, Florida, pp.360-376, 2014
- VIII. **Hücrenin Yapısı**
AYAZ F. A.
in: Botanik. Bitki Biyolojisine Giriş, Özen HÇ. ve Biricik M, Editor, Nobel Akademik Yayıncılık, Ankara, pp.38-65, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Antioxidant Capacity and α -Glucosidase Inhibitory Effect of Some Bryophyte Species**
Yıldırım Akatın M., Ayaz F. A., Boyracı G. M., Er Kemal M., Batan N., Çolak N., Sağlam Ertunga N.
3. Eurasia Biochemical Approaches and Technologies Congress, Antalya, Turkey, 04 November 2021, pp.1
- II. **Deli Bal Zehirlenmelerinin Ericaceae Familyasının Yaşam Alanlarındaki Yaygınlığının İncelenmesi**
Şimşek P., Hayırhoğlu Ayaz S., Ayaz F. A., Şahin A., Gündüz A.
16. Ulusal Acil Tıp Kongresi 7. Intercontinental Emergency Medicine ve 7. International Critical Care Congress, Antalya, Turkey, 12 - 15 November 2020, pp.401-402
- III. **Polyphenol Oxidase (PPO) and Phenolic Characterization of Eggplant (Solanum melongena L. 'KADİFE') Fruit Throughout ripening**
Torun H., KOLCUOĞLU Y., AYAZ F. A., ÇOLAK A.
The International Enzyme Engineering Symposium, Aydın, Turkey, vol.1, pp.67
- IV. **First Evidence of the Occurrence of Feruloyl Derivatives of Anthocyanins in Vitis vinifera Black Grape Cultivar: the Turkish 'Karaerik' grape**
AYAZ F. A., ÇOLAK N., Kurt A., AKPINAR E., HermosinGutierrez I., Sergio G.
In Vino Analytica Scientia IVAS 2017, 17 - 20 July 2017
- V. **The effect of N-acetylcysteine on the morphology and pigment concentration in wheat cultivar (Triticum aestivum L. 'xxCeyhan-99'xx) under ionizing radiation**
ÇOLAK N., Kurt A., AYAZ F. A.
VIII. International Symposium on Ecology and Environmental Problems, 4 - 07 October 2017, pp.208
- VI. **The protective effect of N-acetylcysteine against heavy metal stress in a bread wheat cultivar (Triticum aestivum L. 'xxCeyhan-99'xx)**
ÇOLAK N., AYAZ F. A.
VIII. International Symposium on Ecology and Environmental Problems, 4 - 07 October 2017, pp.207
- VII. **The effect of anthocyanin-rich extract on the phenolic compounds content and antioxidant capacity in wheat (Triticum aestivum L.) under ionizing radiation**
Kurt A., ÇOLAK N., AYAZ F. A.
The Second Japan-Turkey International Symposium on Pharmaceutical and Biomedical Sciences, 11 - 12 September 2017, pp.71
- VIII. **The Effect of Anthocyanin-Rich Extract on the Morphology and Pigment Concentration in a Wheat Cultivar Under Ionizing Radiation (IR)**

Kurt A., ÇOLAK N., AYAZ F. A.

The Second Japan-Turkey International Symposium on Pharmaceutical and Biomedical Science, 11 - 12 September 2017, pp.72

- IX. **The role of time-dependent treatment of exogenous salicylic acid on endogenous phytohormone levels under salinity stress**
TORUN H., Novak O., Mikulik J., Strnad M., AYAZ F. A.
ICPB 2017: 19th International Conference on Plant Biology, Viyana, Austria, 21 - 22 June 2017
- X. **sugar composition in the achenes of three medicinal *Matricaria L.* (Asteraceae) taxa**
İmamoğlu K. V., İNCEER H., AYAZ S., ÖZCAN M., AYAZ F. A.
I. Inter national Congress on medicinal and aromatic plants, TABKON'xx17, Antalya, Turkey, 9 - 12 May 2017
- XI. **Phenolic Compound Content and Antioxidant Capacity of Endemic *Tripleurospermum baytopianum* and *T. repens* (Asteraceae) from Turkey**
Karayiğit B., İNCEER H., ÇOLAK N., AYAZ S., AYAZ F. A.
. International Congress on Medicinal and Aromatic Plants, 9 - 11 May 2017, pp.1338
- XII. **Phenolic compound content and antioxidant capacity in fruits of some eggplant (*Solanum melongena L.*) cultivars**
Karayiğit B., AYAZ S., Kurt A., ÇOLAK N., AYAZ F. A.
International Congress on Medicinal and Aromatic Plants, 9 - 11 May 2017
- XIII. **Polyamines and phenolic compounds content in the fruit of naturally growing *Malus sylvestris L.* in Gümüşhane (Turkey)**
Kurt A., ÇOLAK N., ÇOLAK A., KOLCUOĞLU Y., AYAZ F. A.
International Congress on Medicinal and Aromatic Plants, 9 - 11 May 2017
- XIV. **Polyamine and phenolic compounds contenr in the fruit of naturally growing *Malus sylvestis L.* in Gümüşhane Turkey**
KURT a., ÇOLAK N., ÇOLAK A., KOLCUOĞLU Y., AYAZ F. A.
international congress on medicinal and aromatic plants, 9 - 11 May 2017
- XV. **Sugars and organic acids in berries of Erzincan black grape (*Vitis vinifera 'xxKaraerik'xx*)**
Kurt A., AYAZ S., ÇOLAK N., AKPINAR E., AYAZ F. A.
International Congress on Medicinal and Aromatic Plants, 9 - 11 May 2017, pp.1348
- XVI. **PHENOLICS CONTENT AND RADICAL SCAVENGINGACTIVITY OF BLACK FOX GRAPE *Vitis labrusca L* BERRY DURING RIPENING**
TORUN H., Kurt A., ÇOLAK N., AYAZ F. A.
2 INTERNATIONAL CONFERENCE ON SCIENCEECOLOGY AND TECHNOLOGY(ICONSETE'2016), Barcelona, Spain, 14 - 16 October 2016
- XVII. **THE TIME DEPENDENT EFFECTS OF SALICYLIC ACID ONTHE ANTIOXIDANT DEFENSE SYSTEMS IN BARLEY *Hordeum vulgare L* CULTIVARS UNDER SALINITYSTRESS**
TORUN H., AYAZ F. A.
2 INTERNATIONAL CONFERENCE ON SCIENCEECOLOGY AND TECHNOLOGY(ICONSETE'2016), Barcelona, Spain, 14 October 2016 - 16 January 2017
- XVIII. **Phenolic Content and Radical Scavenging Activity of Black Fox Grape *Vitis Labrusca L* Berry During Ripening**
TORUN H., Kurt A., ÇOLAK N., AYAZ F. A.
2nd International Conference on Science, Ekology and Technology-2016, Amsterdam, Netherlands, 14 October - 16 November 2016
- XIX. **Crosstalk Between Endogenous Phytohormones and Exogenous Salicylic Acid in *Hordeumvulgare L* Cultivars Under Salinity Stress**
TORUN H., Novak O., Jaromir M., Strnad M., AYAZ F. A.
Plant Biology Europe EPSO/FESPB, 26 - 30 June 2016
- XX. **Total Phenolic Content and Antiooxidant Capacity in Some Repräsentatives of the Tribe Anthemideae Asteraceae from Turkey**
ÇOLAK N., İNCEER H., HAYIRLIOĞLU AYAZ S., AYAZ F. A.

Symposium on EuroAsian Biodiversity, 23 - 27 May 2016

- XXI. **Total phenolic content and antioxidant capacity in some representatives of the tribe Anthemideae Asteraceae from Turkey**
ÇOLAK N., İNCEER H., AYAZ S., AYAZ F. A.
Symposium on EuroAsian Biodiversity, 23 - 27 May 2016
- XXII. **Phenolics and Antioxidant Capacity of Erzincan Black Grape (Vitis vinifera 'Karaerik')**
ÇOLAK N., KURT A., AYAZ F. A., Akpınar E.
Symposium on Euroasian Biodiversity, Antalya, Turkey, 23 - 27 May 2016, pp.265
- XXIII. **Total Phenolic Content and Antioxidant Capacity in Some Representatives of Tribe Anthemideae (Asteraceae) from Turkey**
ÇOLAK N., İNCEER H., AYAZ S., AYAZ F. A.
symposium on euroasian biodiversity, Antalya, Turkey, 23 - 27 May 2016, vol.1, no.1, pp.264
- XXIV. **Nutrient content of Malus sylvestris L. (apple), which groww naturally in Gümüşhane**
ÇOLAK N., Günal M., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A.
International Mesopotamia Agriculture Congress, Diyarbakır, Turkey, 22 - 25 September 2015, pp.201-202
- XXV. **DO GRAYANOTOXIN LEVELS IN BLOOD, URINE AND HONEY AFFECT CLINICAL OVERVIEW? A DESCRIPTIVE STUDY**
ŞAHİN A., AYGUN A., GÜNDÜZ A., TÜREDİ S., TURKMEN S., KARACA Y., AYAZ F. A., AHN S., KIM S.
THE 8TH MEDITERRANEAN EMERGENCY MEDICINE CONGRESS, Roma, Italy, 5 - 09 September 2015, pp.106
- XXVI. **Examination using lc-ms/ms determination of grayanotoxin levels in blood and urine and in honey consumed by patients presenting to the emergency department with mad honey intoxication and of relations with clinical data: a preliminary study**
AYGUN A., GÜNDÜZ A., TÜREDİ S., TURKMEN S., KARACA Y., AYAZ F. A., AHN S. Y., KIM S.
XI. ULUSAL ACİL TIP KONGRESİ & 2ND INTERCONTINENTAL EMERGENCY MEDİCİNE CONGRESS & 2ND INTERNATIONAL CRITICAL CARE AND EMERGENCY MEDİCİNE CONGRESS, Antalya, Turkey, 16 - 19 April 2015, pp.10
- XXVII. **Nutrient content of Malus sylvestris L apple which grows naturally in Gümüşhane**
ÇOLAK N., Merve G., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A.
International Mesopotamia Agriculture Congress, Diyarbakır, Turkey, 22 - 25 September 2014
- XXVIII. **Nutrient cotent of Malus sylvestris L. (apple), which grows naturally in Gümüşhane**
ÇOLAK N., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A., GÜNAL M.
International Mesopotamia Agiculture congress, Diyarbakır, Turkey, 23 - 26 September 2014, pp.201-202
- XXIX. **An invetigation of the physiological and Biochemical effect of anthocyanin treatment in the shoots of barley (Hordeum vulgare L.) exposed to ionizing radiation**
ÇOLAK N., AYAZ F. A., ZENGİN A. Y.
International Mesopotamia Agiculture congress, Diyarbakır, Turkey, 23 - 27 September 2014, pp.198-199
- XXX. **Incorrect Alternative Medical Procedures: Agave americana L. related Irritant Contact Dermatitis**
ARGİN C. E., GÖNENÇ ÇEKİÇ Ö., KARACA Y., GÜNDÜZ A., AYAZ F. A.
10. Ulusal Acil Tıp Kongresi & 1st İntercontinental Emergency Medicine Congress, Antalya, Turkey, 15 - 18 May 2014, pp.218
- XXXI. **An Atropa belladonna L. poisoning with acute subdural hematoma**
CİKLA U., TÜRKMEN S., KARACA Y., AYAZ F. A., TÜREDİ S., GÜNDÜZ A.
The Sixth Mediterranean Emergency Medicine Congress, Kos, Greece, 10 - 14 September 2011, pp.87
- XXXII. **AN ATROPA BELLADONNA L. POISONING WITH ACUTE SUBDURAL HEMATOMA**
CİKLA U., TÜRKMEN S., KARACA Y., AYAZ F. A., TÜREDİ S., GÜNDÜZ A.
7. Ulusal Acil Tıp Kongresi, Antalya, Turkey, 26 - 29 May 2011, pp.123
- XXXIII. **Deli bal zehirlenmelerinde kan psödokolinesteraz düzeyleri**
KALKAN A., GÜNDÜZ A., TÜREDİ S., DURMUŞ İ., AYAZ F. A.
6. Ulusal Acil Tıp Kongresi, Antalya, Turkey, 6 - 09 May 2010, pp.1
- XXXIV. **Ctenanthe setosa da kuraklık stresi sırasında apoplastik ve simplastik alanlardaki bazı çözünebilir organik madde ve iyon birikiminin yaprak kıvrılmasındaki rolü**

- SAĞLAM A., NAR H., TERZİ R., SARUHAN GÜLER N., AYAZ F. A., KADIOĞLU A.
22. Ulusal Kimya Kongresi, MAĞUSA, Cyprus (Kkct), 6 - 10 October 2008, pp.23
- XXXV. **Ctenanthe setosa'da Kuraklık Stresi Sırasında Apoplastik ve Simplastik Alanlardaki Bazı Çözünebilir Organik Madde ve İyon Birikiminin Yaprak Kıvrılmasındaki Rolü**
SAĞLAM A., Nar H., TERZİ R., SARUHAN GÜLER N., AYAZ F. A., KADIOĞLU A.
XXII. Ulusal Kimya Kongresi, Magosa, Cyprus (Kkct), 6 - 10 October 2008, pp.35
- XXXVI. **Ctenanthe setosa'da Kuraklık Stresi: Yaprak Kıvrılması ve Biyokimyasal Adaptasyon**
KADIOĞLU A., AYAZ F. A., TERZİ R.
XV. Ulusal Biyoloji Kongresi, Ankara, Turkey, 5 - 09 September 2000, pp.53
- XXXVII. **Ctenanthe setosa da Kuraklık Stresi Yaprak Kıvrılması ve Biyokimyasal Adaptasyon**
Kadioğlu A., Ayaz F. A., Terzi R.
XV. Ulusal Biyoloji Kongresi, Ankara, Turkey, 5 - 09 September 2000, pp.53
- XXXVIII. **Arbutus unedo bitkisi meyvelerinin GC MS analizi Kimya 99 13 Ulusal Kimya Kongresi**
YAYLI N., AYAZ F. A.
kongre, Samsun, Turkey, 22 - 24 September 1999
- XXXIX. **Effect of Foliar Phytohormone and Zinc Uptake on the Growth of Zea mays L. Seedling**
Doğru A., KADIOĞLU A., AYAZ F. A.
Ist International Symposium on Protection of Natural Environment and Ehrami Karaçam, Kütahya, Turkey, 23 - 25 September 1999, pp.52
- XL. **Mechanism of Leaf Rolling in Ctenanthe setosa**
TERZİ R., KADIOĞLU A., AYAZ F. A.
Ist International Symposium on Protection of Natural Environment and Ehrami Karaçam, Kütahya, Turkey, 23 - 25 September 1999, pp.78
- XLI. **Some Biochemical Changes in Developmental Period of Cherry Laurel (Laurocerasus officinalis cv. Globigemmis) Fruits**
Aydın N., AYAZ F. A., KADIOĞLU A.
Ist International Symposium on Protection of Natural Environment and Ehrami Karaçam, Kütahya, Turkey, 23 - 25 September 1999, pp.76
- XLII. **Bayburt Yöresinde Yetişen İğde (Elaeagnus angustifolia L.) Meyvalarının Kimyasal Bileşimi ve Önemi**
KADIOĞLU A., AYAZ F. A.
10. Yılında Bayburt Vilayeti Sempozyumu, Bayburt, Turkey, 20 - 22 July 1999, pp.15
- XLIII. **Ayder Kaplıcalarından İzole Edilen Yeni Bacillus flavothermus Suşları**
DÜLGER S., BELDÜZ A. O., DEMİRBAĞ Z., AYAZ F. A.
10. KÜKEM Kongresi, Mersin, Turkey, 25 - 27 September 1997, pp.8
- XLIV. **Examination of Carboxylic Acids and other Some Chemicals in the Products of Dog Rose (Rosa canina L.)**
AYAZ F. A., KADIOĞLU A., Beyazoğlu O., ÇOŞKUNÇELEBİ K.
Dog Rose Symposium, Gümüşhane, Turkey, 5 - 06 September 1996, pp.27
- XLV. **Effects of Some Heavy Metal ions on the Germination of Lentil Seeds (Lens esculenta) in the Levels of Protein and Enzymes**
KADIOĞLU A., AYAZ F. A.
13rd National Biology Congress, Edirne, Turkey, 6 - 08 July 1994, pp.89
- XLVI. **Effect of polyamines on leaf rolling in Ctenanthe setosa**
KADIOĞLU A., TERZİ R., AYAZ F. A.
Second International Balkan Botanical Congress, İstanbul, Turkey, 14 May 0200 - 18 May 2000, pp.32

Supported Projects

Yıldırım Akatın M., Batan N., Ayaz F. A., Boyracı G. M., Er Kemal M., TUBITAK Project, Karadeniz Bölgesi'nden Toplanacak Olan Bazı Briyofit Türlerinin Antioksidan Kapasiteleri, Fenolik İçerikleri ve Enzim İnhibisyon Aktivitelerinin İncelenmesi,

2020 - 2021

AYAZ F. A., TUBITAK Project, Erzincan Karaerik Üzümü (Vitis vinifera cv. Karaerik)'nün antosiyanin ve ve resveratrol içeriği ile antioksidan kapasitesinin belirlenmesi, 2015 - 2016

KADIOĞLU A., AYAZ F. A., BELDÜZ A. O., TUBITAK Project, Su Eksikliği Stresinde Ctenanthe setosa'da Yaprak Kıvrılmasının Hormonal Kontrolü ve Moleküler Mekanizması, 2004 - 2007

Metrics

Publication: 168

Citation (WoS): 2085

Citation (Scopus): 2501

H-Index (WoS): 26

H-Index (Scopus): 27

Scholarships

Plant Phenolic characterization and Immunoassay Plant Hormone Analysis, Official Institutions of Foreign Countries, 2005 - Continues

Plant Phenolic acid characterization & antioxidant capacity of plant derived products, European Commission, 2002 - Continues

Study of endogenous growth factor in transgenic tissues expressing ipt gene/Chracterization plant phenolic acids, European Commission, 2001 - Continues

Ürün bitkilerinde yüksek sıcaklık ve kuraklık stresinde yaprak lipid içeriği değişimi, TUBITAK, 1998 - Continues

Starch structure analysis and lipid analyses in plants tissues, Official Institutions of Foreign Countries, 1995 - Continues

Enzymatic carbohydrate determination and starch structure analysis, Official Institutions of Foreign Countries, 1993 - Continues

Isoenzyme variation in some forest trees, Official Institutions of Foreign Countries, 1991 - Continues

Plant Phenolic characterization & antioxidant capacity of plant derived products, YOK, 2013 - 2013

Non Academic Experience

Karadeniz Teknik Üniversitesi