

## Prof. FAİK AHMET AYAZ

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### 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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. ***Vitis vinifera* 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)
- X. **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)

- XI. **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)
- XII. **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)
- XIII. **Accumulation of Phenolic Compounds and Antioxidant Capacity during Berry Development in Black 'Isabel' Grape (*Vitis vinifera* L. x *Vitis labrusca* 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)
- XIV. **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)
- XV. ***Vitis vinifera* Turkish grape cultivar Karaerik. Part I: anthocyanin composition, and identification of a newly found anthocyanin<sup>†</sup>**  
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)
- XVI. **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.  
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- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **Novel Azole-Functionalited Fluoroquinolone 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)

- XXIII. **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)
- XXIV. **Nutrient profiles of the hybrid grape cultivar 'Isabel' during berry maturation and ripening**  
 KURT A., Torun H., ÇOLAK N., Seiler G., HAYIRLIOGLU-AYAZ S., AYAZ F. A.  
 JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, no.8, pp.2468-2479, 2017 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **Nutritional Evaluation of an Outstanding Apple Cultivar, Göbek ( *i* Malus / *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)
- XXVIII. **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)
- XXIX. **Bog bilberry phenolics, antioxidant capacity and nutrient profile**  
 ÇOLAK N., TORUN H., GRUZ J., STRNAD M., Hermosin-Gutierrez I., HAYIRLIOGLU-AYAZ S., AYAZ F. A.  
 FOOD CHEMISTRY, pp.339-349, 2016 (SCI-Expanded)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **Evaluation of chemical profile and antioxidant activity of *Tripleurospermum insularum*, 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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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.  
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- XXXVIII. **Mad Honey The Reality**  
GÜNDÜZ A., AYAZ F. A.  
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- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **PSEUDOCOLINESTERASE 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)
- XLIII. **Fatty Acid Composition of 12 Fish Species from the Black Sea**  
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- XLIV. **An *Atropa belladonna* L. poisoning with acute subdural hematoma**  
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- XLV. ***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.  
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- XLVI. **Fatty acid and amino acid compositions of selected wild-edible mushrooms consumed in Turkey**  
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INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.62, no.4, pp.328-335, 2011 (SCI-Expanded)
- XLVII. **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.  
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- XLVIII. **Nutritional value of some wild edible mushrooms from Black Sea Region (Turkey)**  
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- XLIX. **Nutritional value of some wild edible mushrooms from the Black Sea region (Turkey)**  
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- L. **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., KARAOĞLU S. A., KARABÖCEK S., KUCUKDUMLU A., Ayaz F. A.

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.45, no.11, pp.5169-5175, 2010 (SCI-Expanded)

- L.I. **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., AYZAZ F. A., KADIOĞLU A.  
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- L.II. **Nutrient Content of Carob Pod (*Ceratonia siliqua* L.) Flour Prepared Commercially and Domestically**  
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- L.III. **Characterization of Anthocyanins in Caucasian Blueberries (*Vaccinium arctostaphylos* L.) Native to Turkey**  
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- L.IV. **Clinical review of grayanotoxin/mad honey poisoning past and present**  
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- L.V. **Phenolic acid contents of kale (*Brassica oleraceae* L. var. *acephala* DC.) extracts and their antioxidant and antibacterial activities**  
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- L.VI. **Characterization of polyphenoloxidase (PPO) and total phenolic contents in medlar (*Mespilus germanica* L.) fruit during ripening and over ripening**  
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- L.VII. **Determination of chemical composition of anatolian carob pod (*Ceratonia siliqua* L.): Sugars, amino and organic acids, minerals and phenolic compounds**  
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- L.VIII. **Purification and characterization of a highly thermostable alpha-L-Arabinofuranosidase from *Geobacillus caldolyticus* TK4**  
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- L.IX. **Morphometric and electrophoretic analysis of 13 populations of Anatolian black pine in Turkey**  
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FOOD CHEMISTRY, no.4, pp.572-579, 2006 (SCI-Expanded)
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## Supported Projects

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

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

## **Metrics**

Publication: 166

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## **Scholarships**

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## **Non Academic Experience**

Karadeniz Teknik Üniversitesi