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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, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 1991 - 1999

Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 1988 - 1991

Under Graduate, 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 Bölümü, 1999 - 2002

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

Advising Theses

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

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

AYAZ F. A. , Türkiye'de yaygın olarak yetiştirilen bazı patlıcan (*Solanum melongena* L.) çeşitlerine ait meyvelerin besin içeriklerinin karşılaştırılması, Post Graduate, 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, Post Graduate, 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, Post Graduate, Z.Duygu(Student), 2009

AYAZ F. A. , Muşmula (*Mespilus germanica* L.) Meyvelerinin Olgunlaşması Srasındaki Polifenol Oksidazın Karakterizasyonu, Post Graduate, Ö.DEMİR(Student), 2006

AYAZ F. A. , Mısır (*Zea mays* cv. B73) yaprağında soğuk stresi etkileri ve gelişim evrelerinde hücre döngüsü genlerinin transkript analizleri, Post Graduate, F.KARTAL(Student), 2006

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

- **Vitis vinifera Turkish grape cultivar Karaerik. Part I: anthocyanin composition, and identification of a newly found anthocyanin(dagger)**
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, vol.100, pp.1301-1310, 2020 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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.
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- **Synthesis, biological activity and structure activity relationship studies of novel conazole analogues via conventional, microwave and ultrasound mediated techniques**
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- **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, pp.2144-2151, 2018 (Journal Indexed in SCI)
- **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.
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- **Novel Azole-Functionalited 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, pp.46-64, 2018 (Journal Indexed in SCI)
- **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.
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- **Nutrient profiles of the hybrid grape cultivar 'Isabel' during berry maturation and ripening**
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- **Conventional and Microwave-assisted Total Synthesis, Antioxidant Capacity, Biological Activity, and Molecular Docking Studies of New Hybrid Compounds**
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- **Conventional and microwave irradiated synthesis, biological activity evaluation and molecular docking studies of highly substituted piperazine-azole hybrids**
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CHINESE CHEMICAL LETTERS, vol.28, pp.995-1005, 2017 (Journal Indexed in SCI)
- **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.

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- **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.**
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AYAZ F. A. , İNCEER H., Hayirlioglu-Ayaz S., AKSU-KALMUK N.
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- **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 (Journal Indexed in SCI)
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- **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.
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- **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, vol.29, pp.293-296, 2015 (Journal Indexed in SCI)
- **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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- **Mad Honey The Reality**
GÜNDÜZ A., AYAZ F. A.
HONEY IN TRADITIONAL AND MODERN MEDICINE, vol.11, pp.359-379, 2014 (Journal Indexed in SCI)
- **Anthocyanin fingerprinting for authenticity studies of bilberry (*Vaccinium myrtillus* L.)**
PRIMETTA A. K. , Jaakola L., AYAZ F. A. , İNCEER H., RIIHINEN K. R.
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- **The effect of the geographical variation on the sugar composition of oriental beech (*Fagus orientalis* Lipsky)**
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- **An *Atropa belladonna* L. poisoning with acute subdural hematoma**
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- **Fatty acid and amino acid compositions of selected wild-edible mushrooms consumed in Turkey**
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- **Fagus orientalis (Oriental Beechnut) Seeds are a Good Source of Essential Fatty Acids, Amino Acids and Minerals**
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- **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, pp.385-393, 2011 (Journal Indexed in SCI)
- **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, pp.271-277, 2011 (Journal Indexed in SCI)
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AYAZ F. A. , Torun H., Ozel A., Col M., DURAN C., Sesli E., ÇOLAK A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, pp.213-221, 2011 (Journal Indexed in SCI)
- **DNA binding, antioxidant and antimicrobial activities of homo- and heteronuclear copper(II) and nickel(II) complexes with new oxime-type ligands**
ÇOLAK A., TERZİ U., COL M., KARAOĞLU S. A. , KARABÖCEK S., KUCUKDUMLU A., Ayaz F. A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.45, pp.5169-5175, 2010 (Journal Indexed in SCI)
- **Inorganic and Organic Solutes in Apoplastic and Symplastic Spaces Contribute to Osmotic Adjustment during Leaf Rolling in *Ctenanthe setosa***
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ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, vol.52, pp.37-44, 2010 (Journal Indexed in SCI)
- **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, pp.37-44, 2010 (Journal Indexed in SCI)
- **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, pp.286-292, 2009 (Journal Indexed in SCI)
- **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, vol.57, pp.5244-5249, 2009 (Journal Indexed in SCI)
- **Clinical review of grayanotoxin/mad honey poisoning past and present**
GÜNDÜZ A., TÜREDİ S., RUSSELL R. M. , AYAZ F. A.
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Ayaz F. A. , TORUN H., Ayaz S., CORREIA P. J. , ALAIZ M., SANZ C., GRUZ J., STRNAD M.

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- **Changes in sugars, acids and fatty acids in naturally parthenocarpic date plum persimmon (*Diospyros lotus* L.) fruit during maturation and ripening**

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