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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 büyümeyi 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 Uygulanan 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., Željković S. Č., 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
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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
Çüce M., ÇOLAK N., Čavar Željković S., Tarkowski P., Strnad M., Gruž 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., Gruž J., Strnad M., Hayırlioglu-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.
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- 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., Hayırlioglu-Ayaz S., Ayaz F. A., Akpinar 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., GÜNDÖĞDU 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 (<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)
- 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. **<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.
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- 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.
BOTANICA SERBICA, vol.44, no.2, pp.191-201, 2020 (SCI-Expanded)
- 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**
OZDEMIR 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**
OZDEMIR 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-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)

- XXIII. **Phenolic compounds and antioxidant capacity in different-colored and non-pigmented berries of bilberry (*Vaccinium myrtillus* L.)**
ÇOLAK N., Primetta A. K., Riihinne 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.
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- XXVI. **Conventional and microwave irradiated synthesis, biological activity evaluation and molecular docking studies of highly substituted piperazine-azole hybrids**
MERMER A., Demirci S., OZDEMIR 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 /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.
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- 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 FUR 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 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)
- 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 <i>Tripleurospermum insularum</i>, a new species from Turkey**

- ZELJKOVIC S. C., AYAZ F. A., İNCEER H., Hayırlioglu-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.
 TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.40, no.1, pp.44-50, 2015 (SCI-Expanded)
- 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.
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- XL. **The effect of the geographical variation on the sugar composition of oriental beech (*Fagus orientalis Lipsky*)**
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 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. **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.
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- 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., PRESLY J., TORUN H., et al.
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- XLVI. **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.
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- XLVII. **Phenolic acid content and radical scavenging activity of extracts from medlar (*Mespilus germanica* L.) fruit at different stages of ripening**
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- XLVIII. **Nutritional value of some wild edible mushrooms from 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**
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- EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.45, no.11, pp.5169-5175, 2010 (SCI-Expanded)
- L.I. INORGANIC AND ORGANIC SOLUTES IN APOPLASTIC AND SYMPLECTIC SPACES CONTRIBUTE TO OSMOTIC ADJUSTMENT DURING LEAF ROLLING IN *CTENANTHE SETOSA*
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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 (<i>Vaccinium arctostaphylos</i> 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 (<i>Brassica oleraceae</i> L. var. <i>acephala</i> 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 caldooxolyticus* TK4
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- L.IX. Morphometric and electrophoretic analysis of 13 populations of Anatolian black pine in Turkey
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- LXI. Separation, characterization, and quantitation of phenolic acids in a little-known blueberry (<i>Vaccinium arctostaphylos</i> L.) fruit by HPLC-MS
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- LXII. 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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