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Education Information

Doctorate, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1987 - 1993

Post Graduate, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1984 - 1987

Under Graduate, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1978 - 1984

Dissertations

Doctorate, *Cephalaria Transsylvanica* L.'nin minör Terpenik Glikozidlerinin Yapılarının Aydınlatılması, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1993

Post Graduate, Bazı Monosakkaritlerin Metillenmiş Metil Glikozitlerinin Kısmi Sentezi ve Gaz Kromatografik İncelenmesi, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1987

Research Areas

Chemistry, Organic Chemistry, Plant Chemistry, Chemistry of Natural Products, Natural Sciences

Academic Titles / Tasks

Professor, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2011 - Continues

Associate Professor, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2005 - 2011

Assistant Professor, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2000 - 2005

Research Assistant, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1984 - 2000

Advising Theses

ALANKUŞ Ö., Phytochemical analysis of some Caryophyllaceae taxa, Doctorate, H.KILINÇ(Student), 2016

ALANKUŞ Ö., Isolation, purification and characterization of secondary metabolites from *nigella arvensis* var. *involutrata*, Post Graduate, K.BIÇAK(Student), 2015

ALANKUŞ Ö., Isolation and characterization of saponins from *Astragalus halicacabus* and *Astragalus melanocarpus* species, Doctorate, B.JIMMY(Student), 2014

ALANKUŞ Ö., Isolation and characterization of saponins from some *Astragalus* taxa, Doctorate, D.GÜLCEMAL(Student), 2013

ALANKUŞ Ö., Isolation and characterization of saponins from *astragalus icmadophilus*, *astragalus hareftae* and *astragalus lycius* species, Doctorate, İ.KHALİL(Student), 2013

- ALANKUŞ Ö., Isolation and characterization of saponins from *Astragalus gummifer*, Post Graduate, Ö.YAŞARIKİZ(Student), 2012
- ALANKUŞ Ö., *Astragalus plumosus* var. *krugianus* `dan seconder metabolitlerin izolasyonu ve karakterizasyonu, Post Graduate, N.DENİZLİ(Student), 2011
- ALANKUŞ Ö., The extraction, purification and structural evaluation of isolated secondary metabolites from *Astragalus pennatulus*, Post Graduate, R.NUR(Student), 2011
- ALANKUŞ Ö., Isolation and characterization of saponins from *Astragalus strictipinus*, Post Graduate, R.BAŞTÜRK(Student), 2011
- ALANKUŞ Ö., Isolation and characterization of saponins from *Astragalus erinaceus*, Post Graduate, T.SAVRAN(Student), 2010
- ALANKUŞ Ö., *Centaurea cariensis* subsp. *maculiceps* bitkisi üzerinde yapılan fitokimyasal çalışmalar, Post Graduate, A.TAŞ(Student), 2009
- ALANKUŞ Ö., Isolation and characterization of the secondary metabolites of *Astragalus amblolepis* and *Astragalus wiedemannianus*, Doctorate, E.POLAT(Student), 2009
- ALANKUŞ Ö., Phytochemical analysis of *astragalus flavescens* roots, Doctorate, S.AVUNDUK(Student), 2006
- ALANKUŞ Ö., Phytochemical investigations on *Scabiosa atropurpurea* L. subsp. *maritima* (L.) Arc, Post Graduate, E.POLAT(Student), 2005
- ALANKUŞ Ö., Chemical structural analysis of *Nigella sativa* L.Seeds, Post Graduate, M.KEMAL(Student), 2004
- ALANKUŞ Ö., Chemical and microbiological investigations of some Northern Cyprus endemics, Post Graduate, E.OKTAY(Student), 2003
- ALANKUŞ Ö., The Chemical structural analysis of *R. tinctorum* L. seeds, Post Graduate, S.AVUNDUK(Student), 2002

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

- I. **Phytochemical investigation of *Scabiosa sicula* guided by a preliminary HPLC-ESIMS_n profiling**
KILINÇ H., Masullo M., D'Urso G., Karayildirim T., Alankus O., Piacente S.
PHYTOCHEMISTRY, vol.174, 2020 (Journal Indexed in SCI)
- II. **Chemical constituents of *Silene montbretiana***
Kilinc H., Masullo M., Bottone A., KARAYILDIRIM T., ALANKUŞ Ö., Piacente S.
NATURAL PRODUCT RESEARCH, vol.33, no.3, pp.335-339, 2019 (Journal Indexed in SCI)
- III. **Novel saponins from *Nigella arvensis* var. *involucrata***
Bicak K., Gulcemal D., Demirtas I., Alankus O.
PHYTOCHEMISTRY LETTERS, vol.21, pp.128-133, 2017 (Journal Indexed in SCI)
- IV. **Triterpene saponins from the roots of *Acacia albida* Del. (Mimosaceae)**
TCHOUKOUA A., Tabopda T. K. , Uesugi S., OHNO M., KİMURA K., Kwon E., Momma H., Horo I., Caliskan O. A. , SHİONO Y., et al.
PHYTOCHEMISTRY, vol.136, pp.31-38, 2017 (Journal Indexed in SCI)
- V. **Protective effects of two *Astragalus* species on ulcerative colitis in rats**
Soliman G. A. , Gabr G. A. , AlSaikhan F. I. , Ansari M. N. , Khan T. H. , Ganaie M. A. , Abdulaziz S. S. , ALANKUŞ Ö.
Tropical Journal of Pharmaceutical Research, vol.15, no.10, pp.2155-2163, 2016 (Journal Indexed in SCI)
- VI. **Cycloartane and oleanane-type glycosides from *Astragalus pennatulus***
ÜN R. N. , Horo İ., MASULLO M., Falco A., ŞENOL S. G. , PIACENTE S., Alankus-Cahskan Ö.
FITOTERAPIA, vol.109, pp.254-260, 2016 (Journal Indexed in SCI)
- VII. **Secondary Metabolites from *Astragalus lycius* and Their Cytotoxic Activities**
İBRAHİM H., KOCABAŞ F., ALANKUŞ Ö., ÖZGÖKÇE F., İHLAS A K., BEDİR E.
Natural Product Communications, vol.11, pp.1847-1850, 2016 (Journal Indexed in SCI Expanded)
- VIII. **New triterpene saponins from *Phryna ortegioides***
Horo I., MASULLO M., Falco A., ŞENOL S. G. , PIACENTE S., ALANKUS-CALISKAN Ö.
PHYTOCHEMISTRY LETTERS, vol.14, pp.39-44, 2015 (Journal Indexed in SCI)
- IX. **Synthesis, antimicrobial and cytotoxic activities, and structure-activity relationships of gypsogenin**

derivatives against human cancer cells

Emirdag-Ozturk S., KARAYILDIRIM T., CAPACI-KARAGOEZ A., ALANKUS-CALISKAN Ö., Ozmen A., Poyrazoglu-Coban E.

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.82, pp.565-573, 2014 (Journal Indexed in SCI)

- X. **Cycloartane glycosides from *Astragalus plumosus* var. *krugianus* and evaluation of their antioxidant potential**
DENIZLI N., HORO I., GÜLCEMAL D., MASULLO M., FESTA M., CAPASSO A., KOZ O., PIACENTE S., ALANKUS-CALISKAN Ö.
FITOTERAPIA, vol.92, pp.211-218, 2014 (Journal Indexed in SCI)
- XI. **Oleanane type glycosides from *Paronychia anatolica* subsp *balansae***
GÜLCEMAL D., MASULLO M., ALANKUS-CALISKAN Ö., PIACENTE S.
FITOTERAPIA, vol.92, pp.274-279, 2014 (Journal Indexed in SCI)
- XII. **Unusual Secondary Metabolites from *Astragalus halicacabus* LAM.**
DJIMTOMBAYE B., ALANKUS-CALISKAN Ö., GÜLCEMAL D., Khan I. A. , ANIL H., BEDİR E.
CHEMISTRY & BIODIVERSITY, vol.10, no.7, pp.1328-1334, 2013 (Journal Indexed in SCI)
- XIII. **Analysis of saponins and phenolic compounds as inhibitors of alpha-carbonic anhydrase isoenzymes**
Koz O., Ekinci D., Perrone A., Piacente S., Alankus-Caliskan Ö., Bedir E., Supuran C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.28, no.2, pp.412-417, 2013 (Journal Indexed in SCI)
- XIV. **Oleanane glycosides from *Astragalus tauricolus*: Isolation and structural elucidation based on a preliminary liquid chromatography-electrospray ionization tandem mass spectrometry profiling**
GÜLCEMAL D., MASULLO M., NAPOLITANO A., KARAYILDIRIM T., BEDİR E., ALANKUS-CALISKAN Ö., PIACENTE S.
PHYTOCHEMISTRY, vol.86, pp.184-194, 2013 (Journal Indexed in SCI)
- XV. **Saponins from *Astragalus hareftae* (NAB.) SIRJ**
Horo I., Bedir E., Masullo M., Piacente S., Özgökçe F., Alankus-Caliskan Ö.
PHYTOCHEMISTRY, vol.84, pp.147-153, 2012 (Journal Indexed in SCI)
- XVI. **Triterpene Glycosides from *Astragalus angustifolius***
GÜLCEMAL D., MASULLO M., BEDİR E., FESTA M., KARAYILDIRIM T., ALANKUS-CALISKAN Ö., PIACENTE S.
PLANTA MEDICA, vol.78, no.7, pp.720-729, 2012 (Journal Indexed in SCI)
- XVII. **Cycloartane Glycosides from *Astragalus erinaceus***
SAVRAN T., GÜLCEMAL D., MASULLO M., KARAYILDIRIM T., POLAT E., PIACENTE S., ALANKUS-CALISKAN Ö.
RECORDS OF NATURAL PRODUCTS, vol.6, no.3, pp.230-236, 2012 (Journal Indexed in SCI)
- XVIII. **Triterpene saponins from *Cyclamen hederifolium***
ALTUNKEYIK H., GÜLCEMAL D., MASULLO M., ALANKUS-CALISKAN Ö., PIACENTE S., KARAYILDIRIM T.
PHYTOCHEMISTRY, vol.73, pp.127-133, 2012 (Journal Indexed in SCI)
- XIX. **Cycloartane glycosides from *Astragalus aureus***
GÜLCEMAL D., ALANKUS-CALISKAN Ö., PERRONE A., Özgökçe F., PIACENTE S., BEDİR E.
PHYTOCHEMISTRY, vol.72, is.8, pp.761-768, 2011 (Journal Indexed in SCI)
- XX. **Secondary Metabolites from the Roots of *Paronychia chionaea***
Avunduk S., Alankus-Caliskan Ö., Miyamoto T., Tanaka C., Lacaille-Dubois M.
NATURAL PRODUCT COMMUNICATIONS, vol.6, is.2, pp.205-208, 2011 (Journal Indexed in SCI)
- XXI. **Cycloartane Glycosides from Three Species of *Astragalus* (Fabaceae)**
Linnek J., Mitaine-Offer A., Miyamoto T., Tanaka C., Paululat T., Avunduk S., Alankus-Caliskan Ö., Lacaille-Dubois M.
HELVETICA CHIMICA ACTA, vol.94, no.2, pp.230-237, 2011 (Journal Indexed in SCI)
- XXII. **Phenolic Glycosides with antiproteasomal activity from *Centaurea urvillei* DC. subsp *urvillei***
GÜLCEMAL D., Alankus-Caliskan Ö., KARAALP C., ÖRS A. U. , Ballar P., BEDİR E.
CARBOHYDRATE RESEARCH, vol.345, no.17, pp.2529-2533, 2010 (Journal Indexed in SCI)
- XXIII. **Triterpene glycosides from *Astragalus icmadophilus***
Horo I., Bedir E., Perrone A., Özgökçe F., Piacente S., Alankus-Caliskan Ö.
PHYTOCHEMISTRY, vol.71, pp.956-963, 2010 (Journal Indexed in SCI)
- XXIV. **alpha-Glucosidase Inhibitory Constituents of *Linaria kurdica* subsp *ericalyx***

- AYDOĞDU I, ZİHNİOĞLU F., KARAYILDIRIM T., GÜLCEMAL D., ALANKUS-CALISKAN Ö., BEDİR E.
NATURAL PRODUCT COMMUNICATIONS, vol.5, no.6, pp.841-844, 2010 (Journal Indexed in SCI)
- XXV. **Triterpenoid saponins from Astragalus wiedemannianus Fischer**
Polat E., Bedir E., Perrone A., Piacente S., Alankus-Caliskan Ö.
PHYTOCHEMISTRY, vol.71, pp.658-662, 2010 (Journal Indexed in SCI)
- XXVI. **Triterpene glycosides from Agrostemma gracilis**
Koz O., Bedir E., Masullo M., Alankus-Caliskan Ö., Piacente S.
PHYTOCHEMISTRY, vol.71, pp.663-668, 2010 (Journal Indexed in SCI)
- XXVII. **Iridoids from Scabiosa atropurpurea L. subsp. maritima Arc. (L.)**
POLAT E., ALANKUS-CALISKAN Ö., KARAYILDIRIM T., Bedir E.
BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol.38, is.2, pp.253-255, 2010 (Journal Indexed in SCI)
- XXVIII. **Monoterpenoid glucoindole alkaloids and iridoids from Pterocephalus pinardii**
GÜLCEMAL D., MASULLO M., ALANKUS-CALISKAN Ö., KARAYILDIRIM T., ŞENOL S. G. , PIACENTE S., BEDİR E.
MAGNETIC RESONANCE IN CHEMISTRY, vol.48, no.3, pp.239-243, 2010 (Journal Indexed in SCI)
- XXIX. **Cycloartane-type glycosides from Astragalus amblolepis**
Polat E., Caliskan-Alankus Ö., Perrone A., Piacente S., Bedir E.
PHYTOCHEMISTRY, vol.70, is.5, pp.628-634, 2009 (Journal Indexed in SCI)
- XXX. **Triterpene glycosides from the roots of Astragalus flavescens**
AVUNDUK S., MITAINE-OFFER A., Alankus-Caliskan Ö., Miyamoto T., Senol S. G. , LACAILLE-DUBOIS M.
JOURNAL OF NATURAL PRODUCTS, vol.71, no.1, pp.141-145, 2008 (Journal Indexed in SCI)
- XXXI. **Chionaeosides A-D, triterpene saponins from Paronychia chionaea**
AVUNDUK S., LACAILLE-DUBOIS M., MIYAMOTO T., BEDİR E., Senol S. G. , Caliskan Ö.
JOURNAL OF NATURAL PRODUCTS, vol.70, is.11, pp.1830-1833, 2007 (Journal Indexed in SCI)
- XXXII. **Cycloartane triterpene glycosides from the roots of Astragalus gilvus Boiss**
Tabanca N., Bedir E., Alankus-Caliskan Ö., Khan K.
BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol.33, no.10, pp.1067-1070, 2005 (Journal Indexed in SCI)
- XXXIII. **Triterpene saponins from Nigella sativa L.**
Taskin M., Caliskan Ö., Anil H., Abou-Gazar H., Khan I., Bedir E.
TURKISH JOURNAL OF CHEMISTRY, vol.29, is.5, pp.561-569, 2005 (Journal Indexed in SCI)
- XXXIV. **Triterpene saponins from Knautia integrifolia var. bidens**
Alankuş-Çalışkan Ö., Emirdağ S., Bedir E., Avunduk S., Anil H.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.59, is.7, pp.821-824,
2004 (Journal Indexed in SCI)
- XXXV. **High fluorescence emissions of some natural benzofurane derivatives isolated from Styrax officinalis**
Icli S., Anil H., Dindar B., Alankus-Caliskan Ö., Yayla Y., Doroshenko A., Alp S.
TURKISH JOURNAL OF CHEMISTRY, vol.24, no.2, pp.199-207, 2000 (Journal Indexed in SCI)
- XXXVI. **A Bidesmosidic Triterpene Saponin from Cephalaria transsylvanica**
Alankuş Ö.
Phytochemistry, vol.38, is.6, pp.1493-1495, 1995 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The Potential Hepatoprotective and Antioxidant Activities of Astragalus davisii against Paracetamol Induced Liver Damage in Rats**
Foudah A., Alqarni M. H. , Soliman G. A. , Abdel-Rahman R. F. , Alankus-Caliskan O., Ganaie M. A. , Yusufoglu H.
JOURNAL OF PHARMACEUTICAL RESEARCH INTERNATIONAL, vol.32, is.23, pp.102-114, 2020 (Journal Indexed in ESCI)
- II. **Hepatoprotective Potential of Astragalus kurdicus and Astragalus cinereus Extracts against Paracetamol Induced Liver Damage in Rats**

Refereed Congress / Symposium Publications in Proceedings

- I. **Isolation and Characterization of Saponins from Astragalus gummifer**
YAŞARIKİZ Ö., GÜLCEMAL D., ÜN R. N. , MASULLO M., PIACENTE S., ALANKUŞ Ö.
ISCNP-29, 24 - 27 September 2016
- II. **Synthesis of Barringtonol C Derivatives and Their Cytotoxic Activities**
GÜLCEMAL D., NALBANTSOY A., ÜN R. N. , ALANKUŞ Ö.
29. International Symposium on the Chemistry of Natural Products and 9. International Conference o Biodiversity,
24 - 27 September 2016
- III. **Saponins from Astragalus pycnocephalus var. pycnocephalus FISCHER and their alpha/beta-glucosidase inhibitory effects**
Koz O., Ekinci D., Senturk M., Perrone A., Piacente S., Caliskan A. O. , BEDİR E.
59th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-and-Natural-Product-Research,
Antalya, Turkey, 4 - 09 September 2011, vol.77, pp.1443
- IV. **Contribution to the phytochemical study of Paronychia chionaea Boiss**
Avunduk S., Lacaille-Dubois M. A. , Miyamoto T., Caliskan Ö.
7th Joint Meeting of the Association-Francophone-pour-l'Enseignement-et-la-Recherche-en-
Pharmacognosie/American-Society-of-Pharmacognosy/Society-for-Medicinal-Plant-Research/Phytochem-Society-
of-Europe/Societa-Italiana-di-Fitochimica, Athens, Greece, 3 - 08 August 2008, vol.74, pp.1033
- V. **Cytotoxic and DNA Damage Effect of Topoisomerase Inhibitors Isolated From Endemic Alkana Species on Cancer Cells**
SEVİMLİ GÜR C., ŞENOL S. G. , AKGÜN İ. H. , ALANKUŞ Ö., BEDİR E., KORKMAZ K. S.
II. Multidisipliner Kanser Araştırma Sempozyumu, 24 - 27 February 2008

Other Publications

- I. **Organik Kimya III Ders Notları**
ALANKUŞ Ö., SALMAN A. Y.
Lecture Note, pp.200, 2001

Supported Projects

ALANKUŞ Ö., Project Supported by Higher Education Institutions, BAZI CARYOPHYLLACEAE BİTKİLERİNDEN SEKONDER METABOLİTLERİN İZOLASYONU VE YAPI ANALİZLERİ, 2014 - 2017

ALANKUŞ Ö., Project Supported by Higher Education Institutions, NİGELLA ARVENSİS VAR.İNVOLUCRATADAN SEKONDER METABOLİTLERİNİN İZOLASYONU,SAFLANDIRILMASI VE KAREKTERİZASYONU, 2014 - 2016

ALANKUŞ Ö., Project Supported by Higher Education Institutions, BAZI CARYOPHYLLACEAE TAKSONLARININ FİTOKİMYASAL ANALİZİ, 2012 - 2016

ALANKUŞ Ö., Project Supported by Higher Education Institutions, BAZI ASTRAGALUS TÜRLERİNDEN DOĞAL BİLEŞİKLERİN İZOLASYONU,KİMYASAL YAPILARININ BELİRLENMESİ VE SİTOKSİT AKTİVİTELERİNİN İNCELENMESİ, 2010 - 2014

KARAYILDIRIM T., ALANKUŞ Ö., TUBITAK Project, Bazı Astragalus Türlerinden Doğal Bileşiklerin İzolasyonu, Kimyasal Yapılarının Belirlenmesi ve Sitotoksik Aktivitelerinin İncelenmesi, 2009 - 2013

ALANKUŞ Ö., Project Supported by Higher Education Institutions, ASTRAGALUS PENNATULUSTAN İZOLE EDİLEN SEKONDER METABOLİTLERİN EKSTRAKSİYONU, SAFLAŞTIRILMASI VE YAPILARININ BELİRLENMESİ, 2011 - 2012

ALANKUŞ Ö., Project Supported by Higher Education Institutions, ASTRAGALUS ERİNACEUSDAN SAPONİNLERİN İZOLASYONU, 2010 - 2012

ALANKUŞ Ö., Project Supported by Higher Education Institutions, ASTRAGALUS PLUMOSUS VAR. KRUGIANUSDAN SEKONDER METOBOLİTLERİN İZOLASYONU VE KARAKTERİZASYONU, 2010 - 2012

ALANKUŞ Ö., Project Supported by Higher Education Institutions, ASTRAGALUS İCMADOPHİLUS VE ASTRAGALUS HAREFTAE TÜRLERİNDEN SAPONİNLERİN İZOLASYONU VE KAREKTERİZASYONU, 2009 - 2012

ALANKUŞ Ö., Project Supported by Higher Education Institutions, BAZI ASTRAGALUS TAKSONLARINDAN SAPONİNLERİN İZOLASYONU VE KAREKTERİZASYONU, 2009 - 2012

ALANKUŞ Ö., Project Supported by Higher Education Institutions, ASTRAGALUS AMBLOLEPIS VE ASTRAGALUS WIEDEMANNIANUSUN SEKONDER METABOLİTLERİNİN İZOLASYONU VE YAPI ANALIZI, 2008 - 2009

ALANKUŞ Ö., Project Supported by Higher Education Institutions, PHYTOCHEMICAL INVESTIGATION OF ASTRAGLAUS FLAVESCENS ROOTS (ASTRAGALUS FLAVESCENS KÖKLERİ ÜZERİNDE FİTOKİMYASAL ÇALIŞMALAR), 2004 - 2008

ALANKUŞ Ö., Project Supported by Higher Education Institutions, PHYTOCHEMICAL INVESTIGATIONS ON SCABIOSA ATROPURPUREA L. SUBSP. MARİTİMA (L) ARC (SCBİOSA ATROPURPUERA L. SUBSP. MARİTİMA (L) ARC ÜZERİNDE FİTOKİMYASAL ÇALIŞMALAR, 2005 - 2006

ALANKUŞ Ö., Project Supported by Higher Education Institutions, PHYTOCHEMICAL INVESTIGATION OF SAPONINS IN NIGELLA SATIVA SEEDS (NIGELLA SATIVA TOHUMLARINDAKİ SAPONİNLER ÜZERİNE FİTOKİMYASAL ÇALIŞMALAR), 2004 - 2006

ALANKUŞ Ö., Project Supported by Higher Education Institutions, BAZI KUZEY KIBRIS ENDEMİKLERİNİN KİMYASAL VE MİKROBİYOLOJİK AÇIDAN İNCELENMESİ, 2002 - 2004

ALANKUŞ Ö., Project Supported by Higher Education Institutions, R. TİNCTORUM L. TOHUM İÇERİKLERİNİN KİMYASAL YAPI ANALİZİ, 2001 - 2003

ALANKUŞ Ö., Project Supported by Higher Education Institutions, TEUCRİUM CHAMAEDRYDUS BİTKİSİNİN İÇERDİĞİ GLİZİDLERİN İZOLASYONU YAPILARIN TAYİNİ, 1991 - 1994

ALANKUŞ Ö., Project Supported by Higher Education Institutions, HELİONTHUS TUBEROS VE DEHLİA VARIÖBİLİS'İN İÇERDİĞİ FRUKTOSONLARIN İZOLE EDİLMESİ, İNCELENMESİ, EKONOMİK VE TIBBİ DEĞERLENDİRİLMESİ, 1989 - 1990

Citations

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