

Prof. PEYAMİ BATTAL

Personal Information

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International Researcher IDs

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Education Information

Undergraduate, Anadolu University, Faculty Of Economics, Department Of Public Administration, Turkey 2000 - 2007

Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 1993 - 1997

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Biyoloji (Yl) (Tezli), Turkey 1991 - 1993

Undergraduate, Ataturk University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Turkey 1983 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Mısır (Zea mays L.) bitkisinde farklı mineral beslenmenin sitokininler üzerindeki etkileri, Van Yüzüncü Yıl University, Ankara Meslek Yüksekokulu, Tapu Kadastro Meslek Yüksekokulu, 1997

Postgraduate, Van'xnda yetiştirilen bazı elma (Malus sylvestris Mill.) çeşitlerinde kambiyal aktivitenin mevsimsel değişimi, Van Yüzüncü Yıl University, Ankara Meslek Yüksekokulu, -, 1993

Research Areas

Plant Biology

Academic Titles / Tasks

Professor, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2019 - Continues

Professor, Van Yüzüncü Yıl University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2009 - 2019

Academic and Administrative Experience

Van Yüzüncü Yıl University, Sosyal Pediatri, 2015 - 2019

Van Yüzüncü Yil University, Sosyal Pediatri, 2011 - 2015
Van Yüzüncü Yil University, Eğitim Fakültesi, 2010 - 2011
Van Yüzüncü Yil University, Sosyal Pediatri, 2009 - 2011
Van Yüzüncü Yil University, Sosyal Pediatri, 2007 - 2009

Advising Theses

BATTAL P., *Verbascum cheiranthifolium* boiss. var. *asperulum* (Boiss.) Murb., *Achillea filipendulina* Lam. ve *Salvia limbata* C.A. Meyer ekstraktlarının *Zea mays* L. ve *Portulaca oleracea* L. tohumlarının çimlenmesi üzerine allelopatik etkisinin araştırılması, Doctorate, Ö.BİNGÖL(Student), 2013

BATTAL P., Üzerlik (*Peganum harmala* L.) bitki ekstraktının buğday (*Triticum vulgare* L.) ve semizotu (*Portulaca oleracea* L.) bitkilerinin gelişimi üzerine etkisinin araştırılması, Postgraduate, M.KARA(Student), 2011

BATTAL P., Üzerlik (*Peganum harmala* L.) bitki ekstraktının buğday (*Triticum vulgare* L.) ve semiz otu (*Portulaca oleracea* L.) tohumlarının çimlenmesi üzerine etkisinin araştırılması, Postgraduate, İ.SELÇUK(Student), 2010

BATTAL P., Elektrik akımının patates (*Solanum tuberosum* L.) ve soğan (*Allium cepa* L.) bitkilerindeki yumru ve soğan dormansisi üzerine etkisinin araştırılması, Postgraduate, Y.ERSALI(Student), 2009

BATTAL P., Tuz stresine maruz bırakılan mısır (*Zea mays* L.) bitkisinde, eksojen olarak uygulanan absisik asit (ABA) ve salisilik asit (SA)'in etkilerinin belirlenmesi, Postgraduate, M.CEM(Student), 2007

BATTAL P., Farklı tuz konsantrasyonlarına maruz bırakılan bazı halofit bitkilerde (*Salicornia europaea* L., *Puccinellia distans* (Jacq.) Parl. ve *Atriplex olivieri* Moq.) meydana gelen fizyolojik parametrelerin araştırılması, Postgraduate, İ.DURDU(Student), 2007

BATTAL P., Kuraklık stresine maruz bırakılan mısır (*Zea mays* L.) bitkisine eksojen olarak uygulanan naftalen asetik asit (NAA), absisik asit (ABA) ve jasmonik asit (JA)'in etkilerinin belirlenmesi, Postgraduate, Ö.ÇEÇEN(Student), 2004

BATTAL P., Soğuk stresine maruz bırakılan mısır (*Zea mays* L.) bitkisinde, eksojen olarak uygulanan naftalen asetik asit (NAA), absisik asit (ABA), jasmonik asit (JA)'in etkileri ve anti-freeze proteinlerinin analizi, Postgraduate, M.EMRE(Student), 2004

BATTAL P., Su ve tuz stresine maruz bırakılan mısır (*Zea mays* L.), buğday (*Triticum vulgare* L.) ve ayçiçeği (*Helianthus annuus* L.) bitkilerinde sitokininin tayini, Postgraduate, A.GÜLLER(Student), 2002

BATTAL P., Mısır (*zea mays* L.) bitkisinde farklı mikrobelerin elementlerinin sitokininler üzerine etkileri, Postgraduate, İ. (ALTUN)(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Phytotoxic effect of *Lepidium draba* L. extracts on the germination and growth of monocot (*Zea mays* L.) and dicot (*Amaranthus retroflexus* L.) seeds**
KAYA Y., AKSAKAL Ö., SUNAR S., Erturk F. A., Bozari S., AĞAR G., Erez M. E., Battal P.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.31, no.3, pp.247-254, 2015 (SCI-Expanded)
- II. **Adsorption of the 2,4-Dichlorophenoxyacetic Acid Dimethylamine by Raw and Modified Bentonite**
Yonten V., Kubilay Ş., Battal P.
ASIAN JOURNAL OF CHEMISTRY, vol.24, no.1, pp.89-92, 2012 (SCI-Expanded)
- III. **Determination of physiological responses on hyacinth (*Hyacinthus orientalis*) plant exposed to different salt concentrations**
Türkoğlu N., Erez M. E., Battal P.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.32, pp.6045-6051, 2011 (SCI-Expanded)
- IV. **Investigation of Some Physiological and Biochemical Parameters in *Pseudomonas syringae*-Infected Tomato Plants**
Berber I., Onlu H., Ekin S., Battal P., Erez M. E.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.6, pp.4898-4906, 2010 (SCI-Expanded)
- V. **Endogenous hormone levels in bearing and non-bearing shoots of walnut (*Juglans regia* L.) and**

their mutual relationships

Muradoglu F., Balta F., Battal P.

ACTA PHYSIOLOGIAE PLANTARUM, vol.32, no.1, pp.53-57, 2010 (SCI-Expanded)

- VI. **Levels of Selected Trace Elements, Phytohormones, and Sugars in Pseudomonas-Infected *Lycopersicum esculantum* Mill Plants**
Berber I., Ekin S., Battal P., Onlu H., Erez M. E.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.133, no.1, pp.98-109, 2010 (SCI-Expanded)
- VII. **Free sugar compositions based on kernel taste in almond genotypes *Prunus dulcis* from Eastern Turkey**
Balta F., Battal P., Balta M. F., Yoruk H. I.
CHEMISTRY OF NATURAL COMPOUNDS, vol.45, no.2, pp.221-224, 2009 (SCI-Expanded)
- VIII. **Changes in Anatomical Structure and Levels of Endogenous Phytohormones during Leaf Rolling in *Ctenanthe setosa* under Drought Stress**
Kutlu N., TERZİ R., Tekeli C., Senel G., Battal P., KADIOĞLU A.
TURKISH JOURNAL OF BIOLOGY, vol.33, no.2, pp.115-122, 2009 (SCI-Expanded)
- IX. **Molecular and physiological changes in maize (*Zea mays*) induced by exogenous NAA, ABA and MeJa during cold stress**
Battal P., Erez M. E., TÜRKER M., Berber I.
ANNALES BOTANICI FENNICI, vol.45, no.3, pp.173-185, 2008 (SCI-Expanded)
- X. **Allelopathic effects of plants extracts on physiological and cytological processes during maize seed germination**
TÜRKER M., Battal P., AĞAR G., Gulluce M., Sahin F., Erez M. E., Yildirim N.
ALLELOPATHY JOURNAL, vol.21, no.2, pp.273-286, 2008 (SCI-Expanded)
- XI. **Fatty acid, sugar and vitamin contents in rose hip species**
Yörük İ. H., TÜRKER M., Kazankaya A., Erez M. E., Battal P., Çelik F.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.2, pp.1357-1364, 2008 (SCI-Expanded)
- XII. **Analysis of sugar composition in nut crops**
Kazankaya A., Balta M. F., Yoeruek I. H., Balta F., Battal P.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.2, pp.1519-1525, 2008 (SCI-Expanded)
- XIII. **Detection of free sugars in almond genotypes from eastern and western Turkey by HPLC**
Balta M. F., Yoruk I. H., Kazankaya A., Battal P., Erez M. E.
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.7, pp.5659-5665, 2007 (SCI-Expanded)
- XIV. **HPLC determination of sugar contents based on harvest season in almonds [*Prunus dulcis* (Mill.) D.A. Webb.]**
Balta M. F., Yoeruek I. H., Dogan A., Erez M. E., Battal P.
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.6, pp.4873-4879, 2007 (SCI-Expanded)
- XV. **The effects of an artificial and static magnetic field on plant growth, chlorophyll and phytohormone levels in maize and sunflower plants**
TÜRKER M., Temirci C., Battal P., Erez M. E.
PHYTON-ANNALES REI BOTANICAE, vol.46, no.2, pp.271-284, 2007 (SCI-Expanded)
- XVI. **Phytohormone levels in germinating seeds of *Zea mays* L. exposed to selenium and aflatoxines**
Agar G., TÜRKER M., Battal P., Erez M. E.
ECOTOXICOLOGY, vol.15, no.5, pp.443-450, 2006 (SCI-Expanded)
- XVII. **Changes in phytohormone contents in chickpea seeds germinating under lead or zinc stress**
Atici O., Agar G., Battal P.
BIOLOGIA PLANTARUM, vol.49, no.2, pp.215-222, 2005 (SCI-Expanded)
- XVIII. **Determination of phytohormones level in some dried and fresh macrofungi taxa**
TÜRKER M., Demirel K., Uzun Y., Battal P., Tileklioglu B.
PHYTON-ANNALES REI BOTANICAE, vol.45, no.2, pp.145-157, 2005 (SCI-Expanded)
- XIX. **Effects of some mineral nutrients on gibberellic acid levels in maize plants (*Zea mays* L.)**
Battal P.

ECONOMIC BOTANY, vol.58, no.2, pp.195-203, 2004 (SCI-Expanded)

XX. Effect of the air pollutant sulfur dioxide on phytohormone levels in some lichens

Battal P., Aslan A., TRKER M., Uzun Y.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, no.5, pp.436-440, 2004 (SCI-Expanded)

XXI. Interaction between endogenous plant hormones and alpha-amylase in germinating chickpea seeds under cadmium exposure

Atici O., Agar G., Battal P.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.12, no.7, pp.781-785, 2003 (SCI-Expanded)

XXII. Effects of different mineral nutrients on abscisic acid in maize (Zea mays)

Battal P., TRKER M., Tileklioglu B.

ANNALES BOTANICI FENNICI, vol.40, no.5, pp.301-308, 2003 (SCI-Expanded)

XXIII. The effect of cigarette smoke on the growth and development of wheat (Triticum vulgare Vill) and duckweed (Lemna minor L)

Tileklioglu B., Battal P., Isler S.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-ENVIRONMENTAL SCIENCE AND ENGINEERING & TOXIC AND HAZARDOUS SUBSTANCE CONTROL, vol.31, no.10, pp.2577-2581, 1996 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Bazı Makrofungus Ekstraktlarının Çimlenmekte Olan Mısır Bitkisi Tohumlarının Gelişimi ve Fizyolojisi Üzerine Etkileri

UZUN Y., KAYA A., TRKER M., DEMİREL K., BATTAL P., KELEŞ A.

XIX. Ulusal Biyoloji Kongresi, 23-27 Haziran 2008, Trabzon, Turkey, 23 - 27 June 2008, vol.1, pp.420

II. Seasonal changes of endogenous plant hormones in Rosa canina

Yoruk I., TRKER M., Battal P., Kazankaya A., Tileklioglu B.

1st International Rose Hip Conference, Gmşhane, Turkey, 7 - 10 September 2004, pp.199-202

III. Seasonal changes in cambial activity in Rosa canina

Turker M., Yoruk I., Battal P., Kazankaya A., Tileklioglu B.

1st International Rose Hip Conference, Gmşhane, Turkey, 7 - 10 September 2004, pp.217-221

IV. Cytokinin determination in Maize (Zea mays L.), Wheat (Triticum vulgare L.) and Sunflower (Helianthus annus L.) under water and salt stress

Battal P., Gller A., TRKER M., Tileklioglu B.

Conference on Plant Stress reactive Oxygen and Antioxidants, FREISING, Germany, 10 - 13 September 2003, vol.37, pp.35

V. Relations between cambial activity and phenolic compounds

Karadeniz T., Balta F., Balta F., Battal P.

4th International Symposium on Hazelnut, Ordu, Turkey, 30 July - 02 August 1996, pp.191-198

Metrics

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