



ONDOKUZ MAYIS ÜNİVERSİTESİ ZİRAAT FAKÜLTESİ  
University of Ondokuz Mayıs Faculty of Agriculture

# ANADOLU TARIM BİLİMLERİ DERGİSİ

## Anadolu Journal of Agricultural Sciences

Eylül 2010 (Özel Sayı 3) / September 2010 (Special Issue 3)

Cilt/Volume: 25 Sayı/Number: S-3

### Sahibi / Publisher

Prof. Dr. Hüseyin AKAN

### Yazı İşleri Sorumlusu/Editor

Prof. Dr. Mehmet KURAN

### Yayın Kurulu / Editorial Board

Prof. Dr. Muharrem ÖZCAN

Doç. Dr. Nuh OCAK

Doç. Dr. Miray SÖKMEN

Doç. Dr. Orhan DENGİZ

Yrd. Doç. Dr. Hasan ÖNDER

Hakemli Dergi, tüm hakları saklıdır

A Peer Reviewed Journal, all rights reserved

CAB Abstract ve EBSCOhost tarafından taranmaktadır  
Indexed and abstracted in : CAB Abstract and EBSCOhost  
ULAKBİM TÜBİTAK

**Baskı (Print) ISSN: 1308-8750**

**Online ISSN: 1308-8769**

Anadolu Tarım Bilimleri Dergisi, 1986 yılında Ondokuz Mayıs Üniversitesi Ziraat Fakültesi Dergisi olarak yayın hayatına başlamıştır. Derginin ismi 2009 yılında Anadolu Tarım Bilimleri Dergisi olarak değiştirilmiştir.

Anadolu Journal of Agricultural Sciences began in 1986 as the Journal of Agricultural Faculty of Ondokuz Mayıs University. The journal was renamed Anadolu Journal of Agricultural Sciences in 2009.

### Amaç ve Kapsam

*Anadolu Tarım Bilimleri Dergisi* tarımsal alanlarda yürütülen çalışmalardan üretilen orijinal makaleleri yayınlamaktadır. *Dergi* yeni bulgular ortaya koyan erişilebilir ve uygulanabilir temel ve uygulamalı yöntem ve tekniklerin sunulduğu bir forumdur. Özel öneme sahip konularda üretilen derlemeler de basım için kabul edilebilir. Basım dili Türkçe ve İngilizcedir.

### Danışma Kurulu / Advisory Board

- Dr. Baocheng Hu  
Anhui Academy of Agricultural Sciences, China
- Dr. Bohumil Havrland  
Czech Uni. of Life Sciences, Czech Republic
- Dr. Brian Dennis  
Copenhagen University, Denmark
- Dr. Cafer Turgut  
Aydın Adnan Menderes Üniversitesi, Turkey
- Dr. Czeslaw Nowak  
Agricultural Uni. of Krakow, Poland
- Dr. Fikretin Şahin  
Yeditepe University, Turkey
- Dr. Frank Kappel  
Pacific Agri-Food Research Centre, Canada
- Dr. H. Rüştü Kutlu  
Çukurova University, Turkey
- Dr. Jozsef Ratky  
Res. Inst. for Animal Breeding and Nutrition, Hungary
- Dr. Keith Downey  
University of Saskatchewan, Canada
- Dr. Lars Sekse  
Norwegian Institute for Agricultural and Environmental Research, Norway
- Dr. Mogens Vestergaard  
University of Aarhus, Denmark
- Dr. Ryszard Zamorski  
University of Agriculture and Technology, Poland
- Dr. Shyam Prakash  
Indian Agricultural Research Institute, India

### Aim and Scope

*Anadolu Journal of Agricultural Sciences* publishes original papers on research in the fields of agriculture. The *journal* is a forum for presenting articles on basic and applied research, thus making new findings, methods and techniques easily accessible and applicable in practice. Reviews of the most important specialized literature are also published. Articles are published in Turkish and English.

<http://www3.omu.edu.tr/anajas>

Yazışma adresi (Contact): Anadolu Tarım Bilimleri Dergisi,  
Ondokuz Mayıs Üniversitesi, Ziraat Fakültesi 55139 Kurupelit/SAMSUN  
**Tel: 0 (362) 312 19 19 Fax: 0 (362) 457 60 34 e-mail: zfyayin@omu.edu.tr**

## İÇİNDEKİLER (CONTENTS)

	Sayfa No (Page)
<b>ARAŞTIRMA (RESEARCH)</b>	
<b><u>Toprak (Soil Science)</u></b>	
Hydraulic conductivity at and near saturation of an orthic luvisol after 15 years of different soil management practices <b>K. ŠPONGROVÁ, M. MÍHÁLIKOVÁ, S. MATULA, P. RŮŽEK</b>	148
Modeling convective water flow in repacked sand columns by breakthrough curves of chloride <b>S. ERŞAHİN, T. AŞKIN, C. TARAKÇIOĞLU, D.B. ÖZENÇ, K. KORKMAZ, T. KUTLU</b>	157
Physical properties of soddy- podzolic soils under long-term field experiment <b>E.V. SHEIN, T. SAKUNKONCHAK, E.Y. MILANOVSKIY, D.D. KHAYDAPOVA</b>	164
Bioremediation of sewage sludge for land application as a fertilizer using bioleaching <b>A. GHAVIDEL, H.A. ALIKHANI, G. SAVAGHEBI, S. NAJI RAD</b>	170
Phosphorus forms in calcareous soil as affected by irrigation water salinity <b>E.A. ABOU HUSSIEN, S.A. RADWAN, R.A. KHALIL, M.M. HAMAD</b>	175
Application of GIS model in physical land evaluation suitability for rice cultivation <b>O. DENGİZ, İ. SEZER, N. ÖZDEMİR, C. GÖL, T. YAKUPOĞLU, E. ÖZTÜRK, A. SIRAT, M. ŞAHİN</b>	184
Nutrient accumulation in street greenery of Riga (Latvia) in increased salinity conditions, 2005 and 2007 <b>G. CEKSTERE, A. OSVALDE, O. NIKODEMUS</b>	192
Rapid prediction of available K content in soil using near-infrared spectroscopy <b>M. TODOROVA, S. ATANASSOVA, M. GERGIKOVA, R. ILIEVA</b>	199
Pedological development on four different parent materials <b>M. USUL, O. DENGİZ</b>	204
Decomposition rates of intercropped green manure crops in Oaxaca, Mexico <b>J. RUIZ-VEGA, A. NUÑEZ-BARRIOS, M.A. CRUZ-RUIZ</b>	212
Terrestrial isopods diversity related to irrigation and agricultural practices in north-east of Tunisia <b>M. FRAJ, F.C. CHEIKHROUHA, C.S. GROSSET</b>	217
Phytoextraction of heavy metals from mine soils using hyperaccumulator plants <b>J. PÉREZ-ESTEBAN, C. ESCOLÁSTICO, J. RUIZ-FERNÁNDEZ, A. MASAGUER, A. MOLINER</b>	224
Iron fractions in the soils of Harran plain, southeast Turkey <b>T. ÇINAR, A. SEYREK</b>	231