

## Prof. ALİ İNAL

### Personal Information

**Web:** <https://avesis.ankara.edu.tr/101911>

### International Researcher IDs

ScholarID: ZNG6TnkAAAAJ

ORCID: 0000-0003-4611-8613

Publons / Web Of Science ResearcherID: AAF-6603-2020

ScopusID: 7004276052

Yoksis Researcher ID: 35368

### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (Dr), Turkey 1991 - 1994

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (Yl) (Tezli), Turkey 1989 - 1991

Undergraduate, Ankara University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü, Turkey 1984 - 1988

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, Kireç-demir ilişkileri, Ankara University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (Yl) (Tezli), 1991

### Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed

### Academic Titles / Tasks

Professor, Ankara University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü, 2003 - Continues

Associate Professor, Ankara University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü, 1996 - 2003

Research Assistant, Ankara University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü, 1989 - 1996

### Courses

Tarla ve Örtüaltı Deneme Tekniği, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Bitki Fizyolojisi, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Tarla ve Sera Denemeleri Tekniği, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

Yeşil Gübreler, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Deneme Tekniđi, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Bitki ve Toprakta Verimlilik Analizleri, Undergraduate, 2018 - 2019, 2017 - 2018, 2014 - 2015  
Bitki Besleme ve Gübreleme, Undergraduate, 2018 - 2019  
Bitki Besleme ve Gübreleme, Postgraduate, 2017 - 2018  
Tarla ve Sera Denemeleri Tekniđi, Postgraduate, 2014 - 2015, 2013 - 2014  
Yeřil Gübreler, Doctorate, 2013 - 2014  
Bitki Besleme ve Gübreleme, Undergraduate, 2013 - 2014

## Advising Theses

İNAL A., Demirle Zenginleřtirilmiř Biyokömür Uygulamaları ve Bakiye Etkisinin Kıvrıcık Salata ve Ispanak Bitkilerinin Geliřimi ile Demir ve Diđer Bitki Besin Elementi İçeriklerine Etkileri, Doctorate, E.CAN(Student), 2020  
İNAL A., Effects of biochar and organic fertilizer applications on the growth and chemical fertilizer use efficiency of lettuce (*lactuca sativa* l. var. *crispa*) and onion (*allium cepa* l.) plants, Doctorate, M.MAMAN(Student), 2019  
İNAL A., Çinko ile zenginleřtirilmiř çeřitli materyallerin toz halde tohuma bulařtirilmesinin buđday ve arpanin çimlenme, yetiřme, ürün ve çinko içeriđine etkisi, Postgraduate, S.EKİNCİ(Student), 2018  
İNAL A., Effects of seed priming with powder form of zinc enriched different materials on wheat (*Triticum aestivum* L.) and Barley (*Hordeum vulgare* L.) germinaton, growth, yield and zinc concentration, Postgraduate, S.Ekinci(Student), 2018  
İNAL A., Yapraktan bor ve indol asetik asit (İAA) uygulamalarının fasulye (*Phaseolus vulgaris* L.) bitkisinin geliřimi ve kimi fizyolojik özelliklerine etkisi, Postgraduate, E.CAN(Student), 2015  
İNAL A., Damla sulama sistemi ile řeker pancarına (*Beta vulgaris* L.) verilen azot ve potasyumun verim ve kalite üzerine etkisi ile azotun son uygulama zamanının belirlenmesi, Doctorate, A.PİřKİN(Student), 2013  
İNAL A., Kanola (*Brassica napus* L.) çeřitlerinin azot etkinliđinin karřılařtırılması, Postgraduate, Y.UÇAR(Student), 2011  
İNAL A., Küresel SO<sub>2</sub> emisyonundaki ve kükürt içeren gübrelerin tüketimindeki azalmaya bađlı olarak buđdayda olası kükürt noksanlıđının belirlenmesi, Doctorate, F.ERASLAN(Student), 2006  
İNAL A., Azot ve kükürdün adaçayı (*Salvia officinalis* L.) bitkisinin herba verimi ve bazı kalite parametreleri üzerine etkisi, Postgraduate, P.OKTAY(Student), 2006  
İNAL A., Yapraklara püskürtülen Ca formlarının tuz stresinde yetiřtirilen biber bitkisi (*capsicum annuum* L. ) 'nin geliřmesi, mineral bileřimi ve membran geçirgenliđine etkisi, Postgraduate, A.KUZAL(Student), 2001  
İNAL A., Göksun-Çardak yöresinde yetiřtirilen starkspur golden delicious elma çeřidinin beslenme durumunun belirlenmesi, Postgraduate, A.NALBANTOĐLU(Student), 1999  
İNAL A., NFT sistemde yetiřtirilen biber bitkisinin azot, fosfor, potasyum, kalsiyum ve magnezyum kritik konsantrasyonlarının belirlenmesi, Postgraduate, B.ÖZEN(Student), 1998

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The effect of phosphorus fertilizer under the influence of iron and zinc treatments on nutrient content and lettuce yield**  
AKÇA H., TAřKIN M. B., GÜNEř A., İNAL A.  
Journal of Plant Nutrition, vol.47, no.5, pp.750-761, 2024 (SCI-Expanded)
- II. **Phosphorus-Enriched Rice Husk Biochar Affected Growth and Mineral Nutrition of Wheat and Its Residual Effects on Maize Production**  
řAHİN Ö., GÜNEř A., Babar S. K., DENİZ K., KADIOĐLU Y. K., Ozturk S., İNAL A.  
Journal of Soil Science and Plant Nutrition, vol.23, no.3, pp.3085-3094, 2023 (SCI-Expanded)
- III. **Effects of Goat Manure, Biochar, and NPK Applications on Growth and Nutrient Concentrations of Lettuce**  
Mounirou M. M., Kaya E. C., TAřKIN M. B., İNAL A., Abdoul-Azize H. T.  
Tarım Bilimleri Dergisi, vol.29, no.1, pp.149-160, 2023 (SCI-Expanded)

- IV. **Effect of Acid Modified Biochar on the Growth and Essential and Non- Essential Element Content of Bean, Chickpea, Soybean, and Maize Grown in Calcareous Soil**  
TAŞKIN M. B., KADIOĞLU Y. K., ŞAHİN Ö., İNAL A., GÜNEŞ A.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.50, no.13, pp.1604-1613, 2019 (SCI-Expanded)
- V. **Effect of synthetic nano-hydroxyapatite as an alternative phosphorus source on growth and phosphorus nutrition of lettuce (*Lactuca sativa* L.) plant**  
TAŞKIN M. B., ŞAHİN Ö., Taskin H., ATAKOL O., İNAL A., GÜNEŞ A.  
JOURNAL OF PLANT NUTRITION, vol.41, no.9, pp.1148-1154, 2018 (SCI-Expanded)
- VI. **Investigation of responses of some apple (*Mallus x domestica* Borkh.) cultivars grafted on MM106 and M9 rootstocks to lime-induced chlorosis and oxidative stress**  
ŞAHİN Ö., GÜNEŞ A., TAŞKIN M. B., İNAL A.  
SCIENTIA HORTICULTURAE, vol.219, pp.79-89, 2017 (SCI-Expanded)
- VII. **COMPARATIVE PHYSIOLOGICAL AND GROWTH RESPONSES OF TOMATO AND PEPPER PLANTS TO FERTILIZER INDUCED SALINITY AND SALT STRESS**  
Eraslan F., İNAL A., GÜNEŞ A., Alpaslan M., ATIKMEN N. Ç.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, no.5A, pp.1774-1778, 2015 (SCI-Expanded)
- VIII. **ELEMENTAL COMPOSITION OF PEPPER PLANTS FERTILIZED WITH PELLETIZED POULTRY MANURE**  
ŞAHİN Ö., TAŞKIN M. B., KADIOĞLU Y. K., İNAL A., Pilbeam D. J., GÜNEŞ A.  
JOURNAL OF PLANT NUTRITION, vol.37, no.3, pp.458-468, 2014 (SCI-Expanded)
- IX. **Influence of chloride and bromate interaction on oxidative stress in carrot plants**  
ŞAHİN Ö., TAŞKIN M. B., KADIOĞLU Y. K., İNAL A., GÜNEŞ A., Pilbeam D. J.  
SCIENTIA HORTICULTURAE, vol.137, pp.81-86, 2012 (SCI-Expanded)
- X. **Combined effect of arsenic and phosphorus on mineral element concentrations of sunflower**  
Güneş A., İnal A., Güneri E., Kadioğlu Y. K.  
Communications in Soil Science and Plant Analysis, vol.41, no.3, pp.361-372, 2010 (SCI-Expanded)
- XI. **MINERAL ELEMENT DISTRIBUTION AND ACCUMULATION PATTERNS WITHIN TWO BARLEY CULTIVARS**  
Birsin M., ADAK M. S., İNAL A., Aksu A., GÜNEŞ A.  
JOURNAL OF PLANT NUTRITION, vol.33, no.2, pp.267-284, 2010 (SCI-Expanded)
- XII. **Effect of sulfur on the yield and essential and nonessential element composition of alfalfa determined by polarized energy dispersive x-ray fluorescence**  
GÜNEŞ A., İNAL A., Pilbeam D., KADIOĞLU Y. K.  
Communications in Soil Science and Plant Analysis, vol.40, no.13-14, pp.2264-2284, 2009 (SCI-Expanded)
- XIII. **Determination of mineral element concentrations in wheat, sunflower, chickpea and lentil cultivars in response to P fertilization by polarized energy dispersive X-ray fluorescence**  
GÜNEŞ A., İNAL A., KADIOĞLU Y. K.  
X-Ray Spectrometry, vol.38, no.5, pp.451-462, 2009 (SCI-Expanded)
- XIV. **Recovery of bean plants from boron-induced oxidative damage by zinc supply**  
Güneş A., İnal A., Güneri E.  
Russian Journal of Plant Physiology, vol.56, no.4, pp.503-509, 2009 (SCI-Expanded)
- XV. **Silicon increases tolerance to boron toxicity and reduces oxidative damage in barley**  
İNAL A., Pilbeam D. J., GÜNEŞ A.  
Journal of Plant Nutrition, vol.32, no.1, pp.112-128, 2009 (SCI-Expanded)
- XVI. **Phosphorus Efficiency in Sunflower Cultivars and Its Relationships with Phosphorus, Calcium, Iron, Zinc and Manganese Nutrition**  
GÜNEŞ A., İNAL A.  
JOURNAL OF PLANT NUTRITION, vol.32, no.7, pp.1201-1218, 2009 (SCI-Expanded)
- XVII. **Concentrations of essential and nonessential elements in shoots and storage roots of carrot grown in NaCl and Na<sub>2</sub>SO<sub>4</sub> salinity**  
İNAL A., GÜNEŞ A., Pilbeam D. J., Kadloglu Y. K., Eraslan F.  
X-Ray Spectrometry, vol.38, no.1, pp.45-51, 2009 (SCI-Expanded)

- XVIII. **Effect of arsenic-phosphorus interaction on arsenic-induced oxidative stress in chickpea plants**  
GÜNEŞ A., Pilbeam D. J., İNAL A.  
PLANT AND SOIL, vol.314, no.1-2, pp.211-220, 2009 (SCI-Expanded)
- XIX. **Interactive effects of salicylic acid and silicon on oxidative damage and antioxidant activity in spinach (*Spinacia oleracea* L. cv. Matador) grown under boron toxicity and salinity**  
Eraslan F., İNAL A., Pilbeam D. J., GÜNEŞ A.  
PLANT GROWTH REGULATION, vol.55, no.3, pp.207-219, 2008 (SCI-Expanded)
- XX. **Influence of silicon on sunflower cultivars under drought stress, I: Growth, antioxidant mechanisms, and lipid peroxidation**  
GÜNEŞ A., Pilbeam D. J., İNAL A., Coban S.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.39, no.13-14, pp.1885-1903, 2008 (SCI-Expanded)
- XXI. **Significance of intracellular and secreted acid phosphatase enzyme activities, and zinc and calcium interactions, on phosphorus efficiency in wheat, sunflower, chickpea, and lentil cultivars**  
GÜNEŞ A., İNAL A.  
AUSTRALIAN JOURNAL OF AGRICULTURAL RESEARCH, vol.59, no.4, pp.339-347, 2008 (SCI-Expanded)
- XXII. **Interspecific root interactions and rhizosphere effects on salt ions and nutrient uptake between mixed grown peanut/maize and peanut/barley in original saline-sodic-boron toxic soft**  
İNAL A., GÜNEŞ A.  
JOURNAL OF PLANT PHYSIOLOGY, vol.165, no.5, pp.490-503, 2008 (SCI-Expanded)
- XXIII. **Influence of silicon on sunflower cultivars under drought stress, II: Essential and nonessential element uptake determined by polarized energy dispersive x-ray fluorescence**  
GÜNEŞ A., KADIOĞLU Y. K., Pilbeam D. J., İNAL A., Coban S., Aksu A.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.39, no.13-14, pp.1904-1927, 2008 (SCI-Expanded)
- XXIV. **Silicon-mediated changes on some physiological and enzymatic parameters symptomatic of oxidative stress in barley grown in sodic-B toxic soil**  
Gunes A., Inal A., Bagci E., Coban S.  
Journal of Plant Physiology, vol.164, no.6, pp.807-811, 2007 (SCI-Expanded)
- XXV. **Salicylic acid induced changes on some physiological parameters symptomatic for oxidative stress and mineral nutrition in maize (*Zea mays* L.) grown under salinity**  
Gunes A., Inal A., Alpaslan M., Eraslan F., Bagci E., Cicek N.  
Journal of Plant Physiology, vol.164, no.6, pp.728-736, 2007 (SCI-Expanded)
- XXVI. **Impact of exogenous salicylic acid on the growth, antioxidant activity and physiology of carrot plants subjected to combined salinity and boron toxicity**  
Eraslan F., Inal A., Gunes A., Alpaslan M.  
SCIENTIA HORTICULTURAE, vol.113, no.2, pp.120-128, 2007 (SCI-Expanded)
- XXVII. **Mineral nutrition of wheat, chickpea and lentil as affected by mixed cropping and soil moisture**  
Gunes A., Inal A., Adak M. S., Alpaslan M., Bagci E., Erol T., Pilbeam D. J.  
Nutrient Cycling in Agroecosystems, vol.78, no.1, pp.83-96, 2007 (SCI-Expanded)
- XXVIII. **Role of phosphatases, iron reducing, and solubilizing activity on the nutrient acquisition in mixed cropped peanut and barley**  
GÜNEŞ A., İNAL A., Cicek N., Eraslan F.  
JOURNAL OF PLANT NUTRITION, vol.30, no.10-12, pp.1555-1568, 2007 (SCI-Expanded)
- XXIX. **Effects of exogenously applied salicylic acid on the induction of multiple stress tolerance and mineral nutrition in maize (*Zea mays* L.)**  
GÜNEŞ A., İNAL A., Alpaslan M., Cicek N., GÜNERİ E., Eraslan F., Guzelordu T.  
Archives of Agronomy and Soil Science, vol.51, no.6, pp.687-695, 2005 (SCI-Expanded)
- XXX. **Effects of Boron fertilization on the yield and some yield components of bread and durum wheat**  
**Ekmeklik ve makarnalık buğdayda bor gübrelemesinin verim ve verim parametreleri üzerine etkisi**  
GÜNEŞ A., Alpaslan M., İNAL A., ADAK M. S., Eraslan F., Çiçek N.

- Turkish Journal of Agriculture and Forestry, vol.27, no.6, pp.329-335, 2003 (SCI-Expanded)
- XXXI. **Growth, proline accumulation and ionic relations of tomato (*Lycopersicon esculentum* L.) as influenced by NaCl and Na<sub>2</sub>SO<sub>4</sub> salinity**  
İNAL A.  
Turkish Journal of Botany, vol.26, no.5, pp.285-290, 2002 (SCI-Expanded)
- XXXII. **Effect of regional different N-fertilizer applications on nitrate accumulation in winter vegetables grown on Tokat region Yoresel degisik azotlu gubre uygulamalarinin Tokat bolgesinde yetistirilen bazi kislik sebzelerin nitrat akumulasyonuna etkisi**  
Karaman M., Brohi A., GÜNEŞ A., İNAL A., Alpaslan M.  
Turkish Journal of Agriculture and Forestry, vol.24, no.1, pp.1-9, 2000 (SCI-Expanded)
- XXXIII. **Effect of zinc treatment on the alleviation of sodium and chloride injury in tomato (*Lycopersicum esculentum* (L.) Mill. cv. Lale) grown under salinity**  
Alpaslan M., İNAL A., GÜNEŞ A., ÇIKILI Y., Özcan H.  
Turkish Journal of Botany, vol.23, no.1, pp.1-6, 1999 (SCI-Expanded)
- XXXIV. **Effect of iron and zinc applications on growth and on concentration of mineral nutrients of bean (*phaseolus vulgaris* L.) grown in artificial siltation soils Kelkit çayından siltasyon ile tarima yeni kazandırılan topraklarda demir-çinko gübrelemesinin fasülye (*phaseolus vulgaris* L.) bitkisi'nin büüme ve mineral besin elementi konsantrasyonuna etkisi**  
Rüştü Karaman M., Reşit Brohi A., İnal A., Taban S.  
Turkish Journal of Agriculture and Forestry, vol.23, no.SUPPL. 2, pp.341-348, 1999 (SCI-Expanded)
- XXXV. **The relationships between soil properties and nutritional status of strawberry plants grown in Anamur and Silifke districts Anamur ve silifke yöresinde çilek yetiştirilen alanların toprak özellikleri ile bitkilerin beslenme durumları arasındaki ilişkiler**  
İNAL A., GÜNEŞ A., Alpaslan M.  
Turkish Journal of Agriculture and Forestry, vol.23, no.7 SUPPLEMENT 3, pp.729-740, 1999 (SCI-Expanded)
- XXXVI. **Effect of chloride and partial replacement of nitrate by reduced forms of nitrogen on nitrate, total-N and chloride content of onion (*Allium cepa* L.)**  
İNAL A., Güneş A., Aktaş M.  
Turkish Journal of Agriculture and Forestry, vol.21, no.4, pp.403-406, 1997 (SCI-Expanded)
- XXXVII. **Effect of Various NaCl Levels on the Growth, Chlorophyll, Proline and Mineral Compositions of Tomato (*Lycopersicon esculentum* L.) Grown on Peat-Perlite Medium with Nutrient Solution Peat-perlit ortamında besin çözeltisi ile yetiştirilen domates (*lycopersicon esculentum* L.) in gelişmesi, klorofil, prolin ve mineral madde içeriğine değişik NaCl düzeylerinin etkisi**  
İNAL A., GÜNEŞ A., Alpaslan M.  
Turkish Journal of Agriculture and Forestry, vol.21, no.1, pp.95-99, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Biyokömür ve organik gübre uygulamalarının soğan bitkisinin gelişimi ve kimyasal gübreden yararlanma oranına etkileri**  
MOUNİROU M. M., KAYA E. C., OUEDRAOGO A., DEMİR K., GÜNEŞ A., İNAL A.  
Toprak Bilimi ve Bitki Besleme Dergisi, vol.8, no.1, pp.36-45, 2020 (Peer-Reviewed Journal)
- II. **Effect of Drought Stress on Sensitivities and Yields of Chickpea(*Cicer arietinum* L.) Cultivars**  
GÜNERİ E., GÜNEŞ A., İNAL A., ADAK M. S.  
YÜZÜNCÜ YIL ÜNİVERSİTESİ TARIM BİLİMLERİ DERGİSİ, vol.28, pp.180-189, 2018 (Scopus)
- III. **Variations in essential and non-essential element composition and yield of silage corn fertilized with sulfur**  
GÜNEŞ A., İNAL A., Bağcı E., KADIOĞLU Y. K., Eraslan F.  
Journal of Plant Interactions, vol.3, no.3, pp.181-188, 2008 (Scopus)
- IV. **Influence of silicon on antioxidant mechanisms and lipid peroxidation in chickpea (*Cicer arietinum***

**L.) cultivars under drought stress**

Güneş A., Pilbeam D. J., İnal A., Bağcı E., Coban S.

Journal of Plant Interactions, vol.2, no.2, pp.105-113, 2007 (Scopus)

- V. **Effects of humic acids on the yield and mineral nutrition of cucumber (*cucumis sativus* L.) grown with different salinity levels**  
DEMİR K., GÜNEŞ A., İNAL A., Alpaslan M.  
Acta Horticulturae, vol.492, pp.95-103, 1999 (Scopus)
- VI. **Beypazarı Yöresinde Yetiştirilen Havuçların Beslenme Durumları ve Besin Değerleri ile Toprak Özellikleri Arasındaki İlişkiler**  
GÜNEŞ A., İNAL A., alpaslan m., TABAN S.  
Ankara Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.5, pp.33-44, 1999 (Peer-Reviewed Journal)
- VII. **Besin çözeltisinde yetiştirilen buğday *Triticum aestivum* L bitkisinde bor azot ilişkisi**  
ALPASLAN M., TABAN S., İNAL A., KÜTÜK A. C., ERDAL İ.  
Pamukkale University Journal of Engineering Sciences, vol.2, pp.215-219, 1996 (Peer-Reviewed Journal)
- VIII. **Farklı tarımsal atıkların bazı fiziksel ve kimyasal özellikleri**  
BARAN A., ÇAYCI G., İNAL A.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 1995 (ESCI)
- IX. **Effects of amino acid chelate “multimineral proteinate” leaf fertilizer on shoot proliferation and quality in micropropagation of Quince A (*Cydonia oblonga* Mill.)**  
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KÜKEM Dergisi, vol.17, no.1, pp.23-32, 1994 (Peer-Reviewed Journal)

**Refereed Congress / Symposium Publications in Proceedings**

- I. **Tuzlu ve bor toksik koşullarda yetiştirilen farklı anaçlar üzerine aşılı sultani çekirdeksiz (*Vitis vinifera* L.) üzüm çeşidinin dokularında bor, sodyum ve klor akümüasyonu.**  
ŞAHİN Ö., GÜNEŞ A., İNAL A., SÖYLEMEZOĞLU G., ÇAKIR A.  
6. Ulusal Bitki Besleme ve Gübre Kongresi, Turkey, 03 June 2013 - 06 June 2016
- II. **Farklı asma anaçları üzerine aşılı sultani çekirdeksiz (*Vitis vinifera* L.) üzüm çeşidinin bor ve tuz stresine tolerans mekanizmalarının stresle ilgili fizyolojik parametreler ve antioksidan enzimlerle belirlenmesi**  
ŞAHİN Ö., GÜNEŞ A., İNAL A., SÖYLEMEZOĞLU G., GÖKBAYRAK Z., GÜNERİ E.  
6. Ulusal Bitki Besleme ve Gübre Kongresi, Turkey, 3 - 06 June 2013
- III. **MINERAL NUTRIENT CONTENT OF TOMATO PLANTS IN THE AQUAPONICS SYSTEM AS AFFECTED BY THE FISH DENSITY**  
BEKCAN S., İNAL A., KAYA E. C., YAVUZCAN H.  
ASPA 23rd Congress 2019, SORRENTO, Italy, 11 - 14 June 2019, vol.18, pp.1-239
- IV. **Effects of seed priming with powder form of zinc enriched organic and inorganic materials on wheat and barley growth and zinc concentration.**  
İNAL A., GÜNEŞ A., ADAK M. S., ŞAHİN Ö., KAYA E. C., TAŞKIN M. B.  
18 th International Plant Nutrition Congress, KOPENHAG, Denmark, 21 - 24 August 2017
- V. **Effects of seed priming with powdered form of zinc enriched materials on wheat and barley yield, parameters and zinc concentrations.**  
İNAL A., GÜNEŞ A., ADAK M. S., ŞAHİN Ö., KAYA E. C., TAŞKIN M. B.  
18 th International Plant Nutrition Congress, KOPENHAG, Denmark, 21 - 24 August 2017
- VI. **The effect of acid modified biochar on the growth and mineral element concentrations of sunflower plants**  
GÜNEŞ A., İNAL A., TAŞKIN M. B., ŞAHİN Ö., KAYA E. C.  
18 th International Plant Nutrition Congress, KOPENHAG, Denmark, 21 - 24 August 2017
- VII. **Effects of Foliar Applied Boron and Indol Acetic Acid IAA on the Growth and Boron and Nitrogen**

## **Content of Common Bean (*Phaseolus vulgaris* L.) Plant**

KAYA E. C., İNAL A.

Eurosoil 2016, İstanbul, Turkey, 16 - 21 October 2016

### **VIII. Investigation of Chickpea Cultivars in Responses to Drought Stress with the Physiological and Biochemical Parameters**

GÜNERİ E., GÜNEŞ A., ADAK M. S., İNAL A., Şahin Ö.

II. Ulusal Bitki Fizyolojisi Sempozyumu, Mersin, Turkey, 31 August - 03 September 2016

### **IX. Ankara koşullarında yazlık kolza *Brassica napus ssp oleifera* L çeşitlerinde farklı bor dozlarının verim ve verim öğelerine etkisi**

KOLSARICI Ö., DAY S., KAYA M. D., Güler M., İNAL A.

Uluslararası Katılımlı 1. Ali Numan Kırac Tarım Kongresi ve Fuarı, Eskişehir, Turkey, 27 - 30 April 2011, vol.1, pp.989-995

### **X. The relationships between clay minerals and ammonium fixation in the soils of Central Anatolian Region**

ÖZTÜRK H. S., SÖZÜDOĞRU OK S., ÇAYCI G., İNAL A.

M. Şefik Yeşilsoy, International Symposium on Arid Region Soils, Menemen İzmir, İzmir, Turkey, 1 - 03 January 1998, pp.301-307

### **XI. Relationship Between Boron and Calcium on Wheat *Triticum aestivum* L**

TABAN S., MEHMET A., KÜTÜK A. C., İNAL A., ERDAL İ.

9th International Symposium of CIEC, "Soil Fertility and Fertilization Management-Bridge Between Science, Industry and Practice", 25 - 30 September 1995, pp.85-90

## **Metrics**

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