

Prof.Dr. Cengiz KAYA

Doğum Yeri ve Tarihi: Adana, 1970

İletişim Bilgileri:

Tel: 0 414 3440020/1537

Faks: 0414 3440073

e-mail: ckaya@harran.edu.tr veya c_kaya70@yahoo.com

Posta Adresi: Harran Üniversitesi, Ziraat Fakültesi, Toprak Bölümü, Şanlıurfa

Uzmanlık Alanları:

1	Bitki Besleme
2	Toprak Verimliliği
3	Bitki Fizyolojisi

Eğitim Durumu:

Derece	Alan	Üniversite/Fakülte	Yıl
Doktora	Bitki Besleme	University of Hertfordshire	1998
Yüksek Lisans	Bitki Besleme	University of Hertfordshire	1995
Lisans	Bahçe Bitkileri	Çukurova Üniversitesi	1990

Akademik Görevler:

Görev Unvanı	Görev Yeri	Yıl
Prof. Dr.	Harran Üniversitesi	2009
Doç. Dr.	Harran Üniversitesi	2003
Yrd.Doç. Dr.	Harran Üniversitesi	2001
Araş.Gör.Dr.	Harran Üniversitesi	1998
Araş.Gör.	Harran Üniversitesi	1993
Öğr.Gör.		
Okutman		
Uzman		

Aldığı Ödül ve Burslar:

	Konusu ve Nereden Alındığı	Yılı
1	Yurtdışı Yüksek Lisans ve Doktora (YÖK)	1994-1998

Üyesi Olduğu Bilimsel ve Mesleki Kuruluşlar:

	Kuruluşun Adı	Yılları
1		2001-2003
2		2009---

3		
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Verdiği Lisans ve Lisansüstü Dersler Lisans

Güz Dönemi	Bahar Dönemi
Bitki Besleme	Bitkilerde Besin Elementleri Stresi
Bitki Fizyolojisi	

Lisansüstü

Güz Dönemi	Bahar Dönemi
Topraksız Tarım Teknikleri	Bitki Ekofizyolojisi
Bitkilerde Tuzluluk Stresi ve Tolerans	Besin Çözeltilerinin Hazırlanma Teknikleri

Araştırma Faaliyetleri ve Projeler :

Proje Yürütücüsü ve Yardımcı Araştırmacılar	Proje Başlığı	Yılları	Destekleyen Kurum	Proje Bütçesi (TL)
Cengiz KAYA	Kireçli alkalin topraklarda bitkinin fosfor alımı ve su kullanım etkinliğinin inorganik ve organik toprak düzenleyiciler kullanılarak artırılması.	2009-2012	TÜBİTAK	315.000
Cengiz KAYA	Yapraktan püskürtülen Kinetin ve İndol Asetik Asidin Tuzlu Ortamda Yetiştirilen Mısır Bitkisinin Gelişmesi, Verimi Hücre ve Bazı Fizyolojik Parametreler ile Bazı Besin Elementleri Alımı Üzerine etkileri, TÜBİTAK 104O528 (Tamamlandı)	2005-2008	TÜBİTAK	93600
Cengiz KAYA	Tuzlu koşullarda yetiştirilen çilek çeşitlerine yapraktan ve besin çözeltisi ile verilen kalsiyum ve azot ile silisyumun bitki gelişmesi, meyve verimi ve gelişme fizyolojisine etkileri Yöneticisi , HÜBAK, , 2001.	2000-2001	HÜBAK	1.800
Cengiz KAYA	Tuzlu koşullarda yetiştirilen çilekte değişik Azot Uygulamalarının bitki gelişimi, verim ve kalite ile bitki besin elementlerinin alımına etkisi	2002-2003	HÜBAK	2.500
Cengiz KAYA	Silisyumun Tuzlu Koşullarda Yetişen Hıyar	2001-2003	HÜBAK	3.500

	Bitkisinin Gelişmesine ve Bazı Besin Elementlerin Alımı Üzerine Olan Etkisi,			
Cengiz KAYA	Gibberelik ve Absisik Asitin Yüksek Tuz konsantrasyonu içeren Ortamda Yetişen Buğday Bitkisinin Gelişme Fizyolojisi ile Bazı Besin Elementleri Alımı Üzerine etkileri	2002-2003	HÜBAK	2.000

YAYINLAR

SCI, SSCI, AHCI indekslerine giren dergilerde yayınlanan makaleler:

1. **Kaya,C.**, A. L. Tuna, O. Sonmez, F. Ince, D. Higgs. 2009. Mitigation Effects of Silicon on Maize Plants Grown at High Zinc. *Journal of Plant Nutrition* 32:1788-1798.
2. **Kaya C.**, Ashraf M., Sonmez O., Aydemir S., Tuna A.L. ve Cullu M.A. 2009. The influence of arbuscular mycorrhizal colonisation on key growth parameters and fruit yield of pepper plants grown at high salinity. *Scientia Horticulturae* 121, 1–6
3. Tuna, AL, **Kaya, C**, Higgs, D 2008. Silicon Improves Salinity Tolerance in Wheat Plants *Environmental and Experimental Botany* 62, 10-16.
4. Tuna, AL, **Kaya, C** Dikilitas, M, et. al. 2008. The Combined Effects of Gibberellic Acid and Salinity on Some Antioxidant Enzyme Activities, Plant Growth Parameters and Nutritional Status in Maize Plants *Environmental and Experimental Botany* 62 , 1-9.
5. Osman Sonmez, Bekir Bukun, **Cengiz Kaya** And Salih Aydemir 2008.The Assessment Of Tolerance To Heavy Metals (Cd,Pb And Zn) And Their Accumulation In Three Weed Species *Pak. J. Bot.*, 40(2): 747-754.
6. **Kaya C**, Tuna,AL. Ashraf M , Altunlu H. 2007. Improved Salt Tolerance of Melon (Cucumis Melo L.) By The Addition of Proline ond Potassium Nitrate. *Environmental and Experimental Botany* 60, 397-403.
7. Tuna AL , **Kaya C**, Ashraf M, Altunlu H , Yokas I, Yagmur B . The effects of calcium sulphate on growth, membrane stability and nutrient uptake of tomato plants grown under salt stress *ENVIRONMENTAL AND EXPERIMENTAL BOTANY* 59 (2): 173-178 MAR 2007
8. Tuna, AL **Kaya, C** Dikilitas, M, et al. 2007. Comparative Effects of Various Salicylic Acid Derivatives on Key Growth Parameters and Some Enzyme Activities in Salinity Stressed Maize (Zea Mays L.) Plants . *Pakistan Journal of Botany* 39, 787-798.
9. **Kaya C**, Tuna AL, Alves AAC 2006 Gibberellic acid improves water deficit tolerance in maize plants *ACTA PHYSIOLOGIAE PLANTARUM* 28 (4): 331-337
10. **Kaya C**, Tuna L, Higgs D. 2006 Effect of silicon on plant growth and mineral nutrition of maize grown under water-stress conditions. *JOURNAL OF PLANT NUTRITION* 29 (8): 1469-1480
11. Bolat I, **Kaya C**, Almaca A, Timucin S 2006 Calcium sulfate improves salinity tolerance in rootstocks of plum *JOURNAL OF PLANT NUTRITION* 29 (3): 553-564
12. Murillo-Amador B, Troyo-Diequez E, Garcia-Hernandez JL, Lopez-Aguilar R, Avila-Serrano NY, Zamora-Salgado S, Rueda-Puente EO,**Kaya C** . 2006. Effect of NaCl salinity in the genotypic variation of cowpea (*Vigna unguiculata*) during early vegetative growth *SCIENTIA HORTICULTURAE* 108 (4): 423-431
13. Murillo-Amador B, Jones HG, **Kaya C** , Aguilar RL, Garcia-Hernandez JL , Troyo-Diequez E , Avila-Serrano NY, Rueda-Puente E. 2006. Effects of foliar application of calcium nitrate on growth and physiological attributes of cowpea (*Vigna unguiculata* L. Walp.) grown under salt stres. *ENVIRONMENTAL AND EXPERIMENTAL BOTANY* 58 (1-3): 188-196
14. **Kaya C**, Higgs, D. and Kirnak H. 2005. Influence of Polyethylene Mulch, Irrigation Regime, and Potassium Rates on Field Cucumber Yield and Related Traits. *Journal of Plant Nutrition* 28(10), 1739-1753.
15. Kirnak H, Higgs, D., **Kaya C**, and Tas I. 2005. Effects of Irrigation and Nitrogen Rates on Growth, Yield, and Quality of Muskmelon in Semiarid Regions. *Journal of Plant Nutrition* 28(4), 621-638.
16. Murillo-Amador B, Avila-Serrano NY, Garcia-Hernandez JL, Lopez-Aguilar R, Troyo-Diequez E, **Kaya C**. 2004. Relationship between a nondestructive and an extraction method for measuring chlorophyll contents in cowpea leaves.*Journal Of Plant Nutrition And Soil Science-Zeitschrift Fur Pflanzenernahrung Und Bodenkunde* 167 (3): 363-364.
17. Kirnak, H., **Kaya, C.**, Higgs, D. and Tas, I. (2003) Responses of drip irrigated bell pepper to water stress and different nitrogen levels with or without mulch cover. *Journal of Plant Nutrition* 26(2), 263-277.
18. Kirnak, H., **Kaya, C.**, Higgs, D., Bolat, I., Simsek,M. and Ikinici, A. (2003) Effects of preharvest drip

irrigation scheduling on strawberry yield, quality and growth. *Australian Journal of Experimental Agriculture* 43(1), 105-111.

19. **Kaya, C.**, Higgs, D., Ince, F., Amador, B.M., Cakir, A., and Sakar, E. (2003) Ameliorative effects of potassium phosphate on salt stressed pepper and cucumber. *Journal of Plant Nutrition* 26(4), 807-820.
20. **Kaya, C.** and Higgs, D. (2003) Relationship between water use and urea application in salt-stressed pepper plants. *Journal of Plant Nutrition* 26(1), 19-30.
21. **Kaya, C.**, Ak, B.E. and Higgs, D. (2003) Response of salt stressed strawberry plants to supplementary calcium nitrate and/or potassium nitrate. *Journal of Plant Nutrition* 26(3), 543-560.
22. **Kaya, C.** 2002. Effect of supplementary phosphorus on acid phosphatase enzyme activity and membrane permeability of zinc-toxic tomato plants. *Journal of Plant Nutrition*. 25(3), 599-611.
23. **Kaya C.**, Higgs D. and Ikinici A. (2002). An experiment to investigate the ameliorative effects of potassium sulphate on salt and alkalinity stressed vegetable crops. *Journal of Plant Nutrition*, 25(11), 2545-2558.
24. **Kaya C.**, Kirnak, H., Higgs, D. and Saltali, K. (2002) Supplementary calcium enhances plant growth and fruit yield in strawberry cultivars grown at high (NaCl) salinity. *Scientia Horticulturae* 93(1), 65-74.
25. **Kaya, C.**, Higgs, D., Saltali, K. and Gezerel, O. (2002). Response of strawberry grown at high salinity and alkalinity to supplementary potassium. *Journal of Plant Nutrition* 25 (7), 1415-1427.
26. **Kaya, C.**, Higgs, D. and Sakar, E. (2002). Response of two leafy vegetables grown at high salinity to supplementary potassium and phosphorus during different growth stages. *Journal of Plant Nutrition* 25 (12), 2663-2676.
27. **Kaya C.**, Higgs, D. and Ikinici, A. (2002). An experiment to investigate ameliorative effects of potassium sulphate on salt and alkalinity stressed vegetable crops. *Journal of Plant Nutrition* 25(11), 2545-2558.
28. **Kaya, C.**, Ak, B., Higgs, D. and Amador, B. (2002) Influence of foliar-applied calcium nitrate on strawberry plants grown under salt-stressed conditions. *Australian Journal of Experimental Agriculture* 42, 631-636.
29. **Kaya, C.** and Higgs, D. (2002). Improvements in the physiological and nutritional developments of tomato cultivars grown at high zinc by foliar application of phosphorus and iron. *Journal of Plant Nutrition* 25(9), 1881-1894.
30. Murillo-Amador B. , R. López-Aguilar, **Kaya C.**, J.A. Larrinaga-Mayoral and A. Flores-Hernández. 2002. Comparative Effects of NaCl And Polyethylene Glycol on Germination, Emergence and Seedling Growth of Cowpea *Journal of Agronomy and Crop Science*, 1888, 235-247.
31. **Kaya, C.** and Higgs, D. (2002) Calcium nitrate as a remedy for salt-stressed cucumber plants. *Journal of Plant Nutrition* 25(4), 861-871.
32. **Kaya, C.** and Higgs, D. (2002) Response of tomato (*Lycopersicon esculentum* L.) cultivars to foliar application of zinc when grown in sand culture at low zinc. *Scientia Horticulturae* 93(1), 53-64.
33. **Kaya C.**, Halil Kirnak and David Higgs. 2001. The Effects of Supplementary Potassium and Phosphorus on Physiological Development and Mineral Nutrition of Cucumber and Pepper Cultivars Grown at High Salinity (NaCl). *Journal of Plant Nutrition*. 24(9), 1457-1471
34. Kirnak, H., **Kaya,C.**, Higgs, D. and Gercek, S. (2001) A long-term experiment to study the role of mulches in the physiology and macro-nutrition of strawberry grown under water stress. *Australian Journal of Agricultural Research* 52(9), 937-943.
35. **Kaya, C.**, Kirnak, H. and Higgs, D. (2001) The effects of supplementary potassium and phosphorus on physiological development and mineral nutrition of cucumber and pepper cultivars grown at high salinity (NaCl). *Journal of Plant Nutrition* 24(9), 1457-1471.
36. **Kaya, C.**, Kirnak, H. and Higgs, D. (2001) Enhancement of growth and normal growth parameters by foliar application of potassium and phosphorus in tomato cultivars grown at high (NaCl) salinity. *Journal of Plant Nutrition* 24(2), 357-367.
37. **Kaya, C.**, Kirnak, H. and Higgs, D. (2001) An experiment to investigate the ameliorative effects of foliar potassium phosphate sprays on salt stressed strawberry plants. *Australian Journal of Agricultural Research* 52(10), 995-1000.
38. **A27. Kaya, C.**, Higgs, D. and Burton, M. (2001) Responses of tomato cultivars grown to fruit harvest stage under zinc stress in glasshouse conditions. *Journal of Plant Nutrition* 24(2), 369-382.
39. **A28. Kaya, C.** and Higgs, D. (2001) Growth enhancement by supplementary phosphorus and iron in tomato cultivars grown hydroponically at high zinc. *Journal of Plant Nutrition* 24(12), 1861-1870.
40. **A29. Kaya, C.** and Higgs, D. (2001) Inter-relationships between zinc nutrition, growth parameters and nutrient physiology in a hydroponically grown tomato cultivar. *Journal of Plant Nutrition* 24(10),

1491-1503.

41. A19. **Kaya C.**, David Higgs and Agneta Burton 2000 Plant Growth, Phosphorus Nutrition and Acid Phosphatase Enzyme Activity in Three Tomato Cultivars Grown Hydroponically in Different Zinc Treatments, *Journal of Plant Nutrition*, 23 (5), 569-579

42. A20 **Kaya C.**, David Higgs and Agneta Burton 2000 Plant Growth, Phosphorus Nutrition and Acid Phosphatase Enzyme Activity in Three Tomato Cultivars Grown Hydroponically in Different Zinc Treatments, *Journal of Plant Nutrition*, 23 (5), 569-579

43. A21. **Kaya C.**, David Higgs and Agneta Burton 2000 Phosphorus and Acid Phosphatase Enzyme Activity in Leaves of Tomato Cultivars in Relation to Zinc Supply, *Communications in Soil Science and Plant Analysis*, 31(19-20), 3239-3248.

44. A22. **Kaya C.**, David Higgs and Agneta Burton 1999 Foliar Application of Iron as a Remedy for Zinc Toxic-Tomato Plants, *Journal of Plant Nutrition*, 22 (12), 1829-1837.

Ulusal hakemli dergilerde yayımlanan makaleler :

1. **Kaya C.**, David HIGGS and Agneta BURTON 2000. Relationship between zinc supply and phosphorus nutrition/ phosphatase enzyme activity in a hydroponically grown tomato seedlings. **Ankara Üniversitesi, Tarım Bilimleri Dergisi**, 6(1), 40-43.
2. **Kaya C.** and David HIGGS. 2001. The Effects of High and Low Zinc Doses On Plant Fresh Weight, Chlorophyll Content, and Calcium, Phosphorus and Iron Nutrition in Hydroponically Grown Tomato Cultivars. **Gazi Osman Paşa Üniversitesi, Ziraat Fakültesi Dergisi**, 8(1), 13-16.

Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler :

1. **Kaya C.**, David Higgs and Agneta Burton. 1998. A long term experiment to study the importance of zinc in macro and micro-nutrition of tomato cultivars grown in sand culture under glasshouse conditions. SEB meeting, Supplement issue, **Journal of Experimental Botany**, Special issue, abstract, Oxford University Press, Yorkshire.
2. **Kaya C.**, David Higgs and Nazmi Küçük. 2002. Relationship between NaCl and nitrate accumulation in spinach. 13th International Symposium scientific Centre of Fertilizer (CIEC). 10-13 june 2002, Tokat/Turkey

Ulusal bilimsel toplantılarda sunulan ve bildiri kitaplarında basılan bildiriler :

1. **Cengiz KAYA**,1999. Yüksek tuz konsantrasyonunun bitkilerin fizyolojisine ve beslenmesine olumsuz etkileri, Derleme, I GAP Tarım Kongresi, Şanlıurfa

2. **Cengiz KAYA** ve David Higgs. 2001. Yapraktan ve besin çözeltisiyle verilen farklı konsantrasyondaki çinkonun, sera koşullarında ve kum kültürüyle yetiştirilen domates bitkisinin büyüme ve beslenmesine etkileri. & ulusal seracılık Sempozyumu, Fethiye

Diğer yayınlar:

- 1.
- 2.

Atıf Sayısı : 180

Danışmanlığında Devam Eden ve/veya Tamamlanan Tezler :

Öğrenci Adı Soyadı	Tez Başlığı	Yılları
Nazmi KÜÇÜK	Tuzlu koşullarda yetiştirilen çilekte farklı azot düzeylerinin bitki gelişimi, verim ve bazı meyve özellikleri ile bitki besin elementlerinin içeriğine etkileri. (Tamamlandı)	2004
Ahmet SEVİM.	Silisyumun Tuzlu Koşullarda Yetişen Hıyar Bitkisinin Gelişmesine ve Bazı Besin Elementlerin Alımı Üzerine Olan Etkisi	2004
Sibel AKKUŞ BİNİCİ	Gibberelik ve Absisik Asitin Yüksek Tuz konsantrasyonu içeren Ortamda Yetişen Buğday Bitkisinin Gelişme Fizyolojisi ile Bazı Besin Elementleri Alımı Üzerine etkileri	2005