

CURRICULUM VITAE

Name and Surname: Emir SOLTANBEİĞİ
Academic Title: Assistant Professor
Work Address:
Email: emir.soltanbeigi@afsu.edu.tr
Area of Expertise: Agricultural Sciences
Alkaloidal Crops (tobacco,tea,coffee,cacao,poppies,cola
nuts,chicory,marijuana,etc.)
Infield Plants
Tarmsal Bilimler > Diğer > Ziraat Mühendisliği

Degree	Department/Program	University	Year
Doctorate	TARLA BİTKİLERİ (DR)	Çukurova University	2014
Master's Degree			2009
Bachelor's Degree			2005

Position Title	Workplace	Year
Assistant Professor	Afyonkarahisar Health Sciences University	2025-Continues
Lecturer	Afyonkarahisar Health Sciences University	2024-2025
Assistant Professor	Afyonkarahisar Health Sciences University	2021-2023
Lecturer	Afyon Kocatepe University	2014-2021

Supervised Master's Theses:

1. The Effect of Foliar Application of Green Ag and Zn Oxide Nanoparticles on the Growth and Some Physiological Characteristics of *Ocimum basilicum* L. under salinity stress (2025)
2. The effects of foliar application with nano Zn, KNO₃, Methanol and Graphene on growth and some physiological characteristics of *Anethum graveolens* L. under salinity stress (2019)
3. Foliar application of grapheme and diverse source of Fe and Zn affected the growth and yield of *Artemisia dracunculus* under salinity stress (2019)
4. The effects of foliar application of nano-Fe (Magnetic Iron) and Se on the growth and yield of two *Satureja* species under salinity stress (2019)

Roles in Projects:

1. *Helichrysum italicum* (Roth) G. Don ssp. *italicum* Bitkisinin Çiçeklerinde Fitokimyasal ve Biyolojik Araştırmalar, Project Supported by Other Official Institutions, Soltanbeigi E. (Executive), İşitez N., Erdoğan S. F., Özliman S., 2023-2024.

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. Soltanbeigi E., "Hydrodistillation time-dependent variations in the volatile oil characteristics of fresh and dried *Salvia* species", *Scientific Reports*, 2026.
- A2. Sarıkürkcü C., Erdoğmuş S. F., Soltanbeigi E., Erdal Altıntaş Ö., "LC-ESI-MS/MS Phenolic Profiling and In Vitro Biological Activities of *Astragalus lusitanicus* subsp. *orientalis* Extracts", *ChemistrySelect*, vol. 11, no. 1, 2026.
- A3. Soltanbeigi E., Maral H., "Volatile oil content and composition in fresh and dried *Lavandula* species: The impact of distillation time", *Biochemical Systematics and Ecology*, vol. 123, 2025.
- A4. Soltanbeigi E., İşitez N., Erdoğmuş S. F., Özliman S., "Helichrysum italicum (Roth) G. Don essential oil: composition and potential anti-tumour, anti-inflammatory, antimicrobial, and antibiofilm effects", *Journal of Biologically Active Products from Nature*, vol. 15, no. 4, pp. 353-368, 2025.
- A5. Soltanbeigi E., Özliman S., "Volatile compounds of *Origanum onites* L. herbal tea influenced by brewing durations", *Biochemical Systematics and Ecology*, vol. 110, 2023.
- A6. Hassanpouraghdam M., Vojodi Mehrabani L., Rahvar M., Khoshmaram L., Soltanbeigi E., "Mollifying Salt Depression on *Anethum graveolens* L. by the Foliar Prescription of Nano-Zn, KNO₃, Methanol, and Graphene Oxide", *Journal of Soil Science and Plant Nutrition*, vol. 22, 2022.
- A7. Soltanbeigi E., Maral H., "AGRONOMIC YIELD AND ESSENTIAL OIL PROPERTIES OF PURPLE CONEFLOWER (*Echinacea purpurea* L. MOENCH) WITH DIFFERENT NUTRIENT APPLICATIONS", *Chilean journal of agricultural & animal sciences*, vol. 38, no. 1, pp. 164-175, 2022.
- A8. Hassanpouraghdam M., Vojodi Mehrabani L., Kheirollahi N., Soltanbeigi E., Khoshmaram L., "Foliar application of graphene oxide, Fe, and Zn on *Artemisia dracuncululus* L. under salinity", *Scientia Agricola*, vol. 80, 2022.
- A9. Soltanbeigi E., Yıldız M., Dıraman H., Terzi H., Sakartepe E., Yıldız E., "Growth responses and essential oil profile of *Salvia officinalis* L. Influenced by water deficit and various nutrient sources in the greenhouse", *Saudi Journal of Biological Sciences*, vol. 28, 2021.
- A10. Soltanbeigi E., Özgüven M., "The Effects of Marginal Land Conditions and Planting Time on the Yield and Quality of *Mentha x piperita*", *Tekirdağ Ziraat Fakültesi Dergisi*, vol. 18, no. 4, pp. 702-717, 2021.
- A11. Soltanbeigi E., Özgüven M., Hassanpouraghdam M., "Planting-date and cutting-time affect the growth and essential oil composition of *Mentha x piperita* and *Mentha arvensis*", *Industrial Crops and Products*, vol. 170, 2021.
- A12. Soltanbeigi E., Samadpourırganı E., "PHENOLOGICAL CYCLE AND DIURNAL VARIATION EFFECTS ON THE VOLATILE OIL CHARACTERISTICS OF SAGE (*Salvia officinalis* L.)", *Trakya University Journal of Natural Sciences*, vol. 22, no. 1, pp. 59-65, 2021.
- A13. Soltanbeigi E., "Planting-date and cutting-time affect the growth and essential oil composition of *Mentha x piperita* and *Mentha arvensis*", *INDUSTRIAL CROPS AND PRODUCTS*, vol. 170, 2021.
- A14. Soltanbeigi E., Özgüven M., "Influence of Planting Date on Growth, Yield, and Volatile Oil of Menthol Mint (*M. arvensis*) Under Marginal Land Conditions", *Journal of Essential Oil Bearing Plants*, vol. 24, 2021.
- A15. Soltanbeigi E., Sakartepe E., "Chemical Specification of Wild *Salvia tomentosa* Mill. Collected From Inner Aegean Region of Turkey", *Zeitschrift für Arznei- & Gewürzpflanzen*, vol. 24, no. 1, pp. 31-35, 2020.
- A16. Soltanbeigi E., "Chemical Specification of Wild *Salvia tomentosa* Mill. Collected From Inner Aegean Region of Turkey", *ZEITSCHRIFT FÜR ARZNEI- & GEWURZPFLANZEN*, vol. 25, no. 1, pp. 31-35, 2020.
- A17. Soltanbeigi E., "Qualitative Variations of Lavandin Essential Oil under Various Storage Conditions", *Journal of Essential Oil Bearing Plants*, vol. 23, 2020.
- A18. Soltanbeigi E., "Effect of drought stress and seed pretreatment with CCC on yield and yield components of maize varieties Misir varyetelerinde kuraklık stresi ve tohumlarına cycocel uygulamasının verim ve verim componentleri üzerine etkisi", *Tekirdağ Ziraat Fakültesi Dergisi*, vol. 16, no. 1, 2019.
- A19. Soltanbeigi E., "Chemical compositions of essential oil of some *Citrus* spp. (Sour, Lemon, Kumquat, Mandarin and Orange) peels", *ZEITSCHRIFT FÜR ARZNEI- & GEWURZPFLANZEN*, vol. 21, no. 4, pp. 153-159, 2016.

B. Papers presented at international scientific meetings and published in proceedings:

- B1. Soltanbeigi E., Özliman S., From laboratory to industrial distillation: variations in the essential oil composition of two *Lavandula* Species, In: *13th international New York conference on evolving trends in interdisciplinary research & practices*, Türkiye, 2026.
- B2. Soltanbeigi E., Maral H., Effects of Different Nitrogen Levels on Some Agronomical Characteristics of *Echinacea purpurea* L. Moench., In: *4th Global Conference on Engineering Research (GLOBECER'24)*, Türkiye, 2024.
- B3. Dıraman H., Erdem İ., Soltanbeigi E., Ekiz Ünsal T., Güner S., A natural antioxidant source against lipid oxidation: total phenolic contents and essential oil components of *Mentha piperita* L. and *Mentha Spicata* L. harvested from different locations in Türkiye, In: *19th Euro Fed Lipid Congress and Expo*, Poland, 2023.
- B4. Sakartepe E., Soltanbeigi E., Yıldız E., Koç C., Özyürek F. K., Emre N., Çılgın Ö., Lamiaceae familyasına ait bazı türlerden endüstriyel ölçekte elde edilen uçucu yağların kimyasal özellikleri, In: *3rd International Congress on Agriculture, Environment and Health*, Türkiye, 2020.

- B5.** Soltanbeigi E., Sakartepe E., Ontogenetik varyabilitenin *Echinacea purpurea*'nın uçucu yağ oranı ve kalitesine etkisi, In: *3rd International Eurasian Conference on Biological and Chemical Sciences*, Türkiye, 2020.
- B6.** Kaplan M., Türk Baydır A., Soltanbeigi E., Dıraman H., Some physical and textural properties of ten domestic apricot cultivars applied to natural and artificial drying methods, In: *The International Symposium on Food Rheology and Texture*, Türkiye, 2018.
- B7.** Sakartepe E., Soltanbeigi E., Yoltaş A., Abacı Günyar Ö., Çeşitli bitkilerden elde edilen uçucu yağların antimikrobiyal ve antifungal etkilerinin araştırılması, In: *4th International Symposium of Medicinal and Aromatic Plants*, Türkiye, 2018.
- B8.** Kaplan M., Türk Baydır A., Soltanbeigi E., Dıraman H., Improvement of malatya apricot's quality as a traditional and functional food source: some physical and textural properties of three minor Apricot cultivars from Malatya, In: *4th International Symposium on Traditional Foods from Adriatic to Caucasus*, Türkiye, 2018.
- B9.** Yıldız M., Terzi H., Soltanbeigi E., Sakartepe E., Kaya F., Yıldız S. H., Solak M., Safranın biyoaktivite ve tıbbi özelliklerine genel bakış,, In: *1st International Traditional and Complementary Medicine Congress*, Türkiye, 2018.
- B10.** Tansı L. S., Samadpourırganı E., Gedik Keleş S., Soltanbeigi E., Effects of Different Plant Density and Cutting Times on Yield of Stevia, In: *I. International Congress on Medicinal and Aromatic Plants: "Natural and Healthy Life"*, Türkiye, 2017.
- B11.** Soltanbeigi E., Dıraman H., Yıldız E., The effect of different harvest times on Lavender (*Lavandula angustifolia* L.) volatile oil content and quality in Afyonkarahisar climate conditions, In: *1st International Congress on Medical and Aromatic Plants*, Türkiye, 2017.
- B12.** Soltanbeigi E., Dıraman H., Fatty acid profiles of Wild *Bunium persicum* Boiss. and cultivated *Cuminum cyminum* L. from Iran, In: *14th Euro Fed Lipid Congres (Olive Oil and other Virgin Oils)*, Belgium, 2016.
- B13.** Soltanbeigi E., Dıraman H., Kurt İ., Chemical compositions of essential oils of *Lavandula angustifolia*, *Lavandula × intermedia* and *Lavandula stoechas* grown in Afyonkarahisar, Turkey, In: *1st International and Third National Conference of Engineering and Agriculture Management, Environment and Stable Natural Resources*, Türkiye, 2016.
- B14.** Taherlou A., Henareh M., Valilue R., Soltanbeigi E., Management of Azerbaijan regions's unheated greenhouses for crisp lettuce (*Lactuca sativa* L. var. *Crispa*) production in fall cultivation (a case study: in khoj), In: *International Conferenceon Applied Research in Agriculture*, Iran, 2015.
- B15.** Soltanbeigi E., Samadpourırganı E., Taherlou A., A review: Stevia (Honey Leaf), medicinal and industrial plant, In: *International Conferenceon Applied Research in Agriculture*, Iran, 2015.
- B16.** Soltanbeigi E., Taherlou A., Effects of drought stress in various growth stages and seed pretreatment with chlormequat chloride on yield and some characteristics of Maize varieties, In: *International Conferenceon Applied Research in Agriculture*, Iran, 2015.
- B17.** Taherlou A., Soltanbeigi E., Alizadeh Fanaeilou R., Effect of various sowing dates at field and high tunnel on some morphologic characteristics and yield of basil (*Ocimum basilicum* L.), In: *International Conferenceon Applied Research in Agriculture*, Iran, 2015.
- B18.** Yaldız G., Demirkol G., Soltanbeigi E., A research of antimicrobial effects of *Oenothera biennis* L. grown in different fertilizer application, In: *1st Mediterranean Symposium on Medicinal and Aromatic Plants*, Cyprus, 2013.
- B19.** Özgüven M., Soltanbeigi E., Yalın S., Çalışkan T., Eroğlu P., Yaldız G., Şekeroğlu N., The study of the various rosemary varieties volatile oil amounts and antioxidant activities in different harvests on fertile and marginal lands, In: *1st Mediterranean Symposium on Medicinal and Aromatic Plants.*, Cyprus, 2013.

C. National/international books written or chapters in books:

C1. National/international books written:

- C1.1.** Soltanbeigi E., Özliman S., *Türkiye'nin Baharatları*, İstanbul Ticaret Borsası Yayınları, İstanbul, 2023.
- C1.2.** Solak M., Erol İ., Yıldız M., Duman E., Terzi H., Soltanbeigi E., Uslu B., Sakartepe E., *Tıbbi ve Aromatik Bitkiler El Kitapları (14 Cilt)*, Orman ve Su İşleri Bakanlığı Yayını, Ankara, 2016.
- C1.3.** Hassanzadeh Ghortapeh A., Soltanbeigi E., *Honey Bee and Its Role of Ecosystem*, Jahad Daneshgahi Publication, Tahran, 2010.

C2. Chapters in national/international books written:

- C2.1.** Soltanbeigi E., Özliman S., "Tarımsal Üretimde Nanoteknoloji Kullanımı", *Tıbbi ve Aromatik Bitkiler Üretiminde Yenilikçi Yaklaşımlar*, İKSAD, 2022.

D. Articles published in national peer-reviewed journals:

- D1.** Soltanbeigi E., Özliman S., "Diurnal and intra-plant variation in volatile oil content and constituents of *Salvia rosmarinus* Spenn. leaves", *International Journal of Agriculture, Environment and Food Sciences*, pp. 113-124, 2026.
- D2.** Soltanbeigi E., Lysiuk R., "A Concise Review on Ultraviolet Radiation and Its Potential to Enhance the Pharmacological Profile of Medicinal Plants via Secondary Metabolite Production", *Plant Biotechnology Persa*, vol. 8, 2026.
- D3.** Seydi F., Soltanbeigi E., Asadzadeh R., "Ethnobotanical study of medicinal plants effective on prostate in Abdanan city, Ilam Province, western Iran", *Plant Biotechnology Persa*, vol. 7, no. 2, 2025.
- D4.** Soltanbeigi E., Soltani M., "The role of plant secondary metabolites in industry, medicine, and health care", *Journal of Biochemicals and Phytomedicine*, vol. 3, no. 1, pp. 5-7, 2024.

- D5.** Razmjoue D., Pirhadi M., Soltanbeigi E., Lysiuk R., Asadzadeh R., "Investigating the effect of total antioxidant capacity of medicinal plants *Salsola rigida* and *Triticum aestivum*", *Plant Biotechnology Persa*, vol. 5, no. 2, pp. 1-6, 2023.
- D6.** Türk Baydır A., Soltanbeigi E., Maral H., "The Antioxidant Effect of Rosemary on the Oxidation Stability of Refined Sunflower Oil", *European Journal of Science and Technology*, vol. 50, pp. 60-65, 2023.
- D7.** Soltanbeigi E., Pirhadi M., Özlیمان S., "Ethno-Botanical Study of Appetizing Medicinal Plants Used in Musian City, West of Iran", *Journal of Biochemicals and Phytomedicine*, vol. 2, no. 2, pp. 70-74, 2023.
- D8.** Soltanbeigi E., Dastyar N., Khajoei Nejad F. K. N., Shokri S., "Medicinal Herbs Affecting Cancers in Iran and the World", *Plant Biotechnology Persa*, vol. 4, no. 1, pp. 1-3, 2022.
- D9.** Soltanbeigi E., Shokri S., Abbaszadeh S., "Spectroscopic analysis *Oliveria decumbent* Vent by Fourier transform infrared spectroscopy", *Plant Biotechnology Persa*, vol. 3, no. 2, pp. 48-53, 2021.
- D10.** Türk Baydır A., Soltanbeigi E., Saygılı Canlıdınç R., Erdoğan M. S., "Determination of chemical properties and antioxidant effect of *Salvia officinalis* L.", *Bartın University International Journal of Natural and Applied Sciences*, vol. 4, no. 1, pp. 95-100, 2021.
- D11.** Okumuş N., Soltanbeigi E., "Moringa Ağacı (*Moringa oleifera* Lam.): Biyolojik Özellikleri, Kültürü ve Tıbbi Faydaları", *Bağbahçe Bilim Dergisi*, vol. 8, no. 2, 2021.
- D12.** Soltanbeigi E., Yıldız M., Sakartepe E., "Effects of various nutrient sources on growth and essential oil characteristics of *Salvia officinalis* L. in greenhouse", *Alinteri Journal of Agricultural Sciences*, vol. 36, no. 1, pp. 315-322, 2021.
- D13.** Soltanbeigi E., Dıraman H., Hassanpouraghdam M., "Chemical components of volatile oil and fatty acids of wild *Bunium persicum* (Boiss.) B. Fedtsch. And cultivated *Cuminum cyminum* L. populations *Kemijska sestava hlapnih olj in maščobnih kislin samoniklih populacij črne gomoljaste kumine (Bunium persicum (Boiss.) B. Fedtsch.) in gojenih populacij rimske kumine (Cuminum cyminum L.)*", *Acta agriculturae Slovenica*, vol. 117, no. 2, 2021.
- D14.** Katar N., Katar D., Temel R., Karakurt S., Bolatkıran İ., Yıldız E., Soltanbeigi E., "The effect of different harvest dates on the yield and quality properties of rosemary (*Rosmarinus officinalis* L.) plant", *Biological Diversity and Conservation*, vol. 12, 2019.
- D15.** Duman E., Soltanbeigi E., Özcan M. M., "Chemical compositions of essential oil of some Citrus spp. (Sour, Lemon, Kumquat, Mandarin and Orange) peels", *Zeitschrift für Arznei- und Gewürzpflanzen*, vol. 21, no. 4, 2016.
- D16.** Soltanbeigi E., Samadpourırganı E., Çalışkan T., "Evaluation of effects of drought stress and seed pretreatment with Cycocel on forage yield and some vegetative characteristics of the two maize cultivars", *Journal of Research in Crop Sciences*, vol. 6, no. 21, pp. 11-24, 2013.

E. Papers presented at national scientific meetings and published in proceedings:

- E1.** Soltanbeigi E., Hassanzadeh Ghortapeh A., The chemical compounds comparison of Sage (*Salvia officinalis* L.) leaves and flowers volatile oil, In: *1st National Conference on Nutrition and Environmental Issues of Medicinal and Aromatic Plants*, Iran, 2019.
- E2.** Türk Baydır A., Soltanbeigi E., Dıraman H., Maydonoz (*Petroselinum crispum*) ve Dereotu (*Anethum graveolens*) yapraklarının elde edilen uçucu yağların bazı yemeklik yağlar üzerine antioksidan etkileri, In: *YABİTED III. Vegetable Oil Congress*, Türkiye, 2017.
- E3.** Soltanbeigi E., Dıraman H., Hassanzadeh Ghortapeh A., Investigation of chemical properties of *S. sclarea* L. and *S. officinalis* L. Essential oils grown in Afyonkarahisar, Turkey., In: *The 4th National Biodiversity Congress*, Türkiye, 2017.
- E4.** Türk Baydır A., Soltanbeigi E., Dıraman H., Afyon yöresinde yetiştirilen maydonoz (*Petroselinum crispum*) ve dereotu (*Anethum graveolens*) yapraklarının uçucu yağ kimyasal bileşenleri, In: *16. Kromatografi Kongresi*, Türkiye, 2016.
- E5.** Soltanbeigi E., Dıraman H., The investigation of the volatile oil amount and chemical compositions of two thyme species (*Thymus vulgaris* L. and *Thymus × citriodorus* L.) under Afyonkarahisar climate conditions, Turkey, In: *5th National Congress on Agriculture and Sustainable Natural Resources*, Tahran, Iran, 2016.
- E6.** Soltanbeigi E., Hassanzadeh Ghortapeh A., The study of warm and cool hive concept in traditional hives (skeps), Its advantages and disadvantages, In: *1st Congress on Honeybee and its Products on Resistive Economy*, Iran, 2015.
- E7.** Taherlou A., Henareh M., Soltanbeigi E., Valilue R., The effect of different sowing dates on yield and some agronomical traits of garden cress (*Lepidium sativum* L.) in field and unheated greenhouse conditions, In: *3rd congress of Biodiversity and its Effect on Agriculture and Environment*, Urmiye, Iran, 2014.
- E8.** Taherlou A., Henareh M., Valilue R., Soltanbeigi E., The effect of different sowing dates in fall and spring cultivation on morphological traits and leaf yield of coriander (*Coriandrum sativum* L.) in field and unheated greenhouse conditions, In: *3rd congress of Biodiversity and its Effect on Agriculture and Environment*, Urmiye, Iran, 2014.
- E9.** Özgüven M., Soltanbeigi E., Yıldız G., Çalışkan T., The study of the essential oil constituents of various species of the mint flower in the flowering and after flowering stages, In: *2nd National Congress on Medicinal Plants*, Iran, 2013.
- E10.** Soltanbeigi E., Özgüven M., Yıldız G., The investigation of the some chemical components of volatile oil of four species mint leaves in the various growth stages, In: *2nd National Congress on Medicinal Plants*, Iran, 2013.
- E11.** Özgüven M., Soltanbeigi E., Şekeroğlu N., The Study of the adaptation, yield and quality of the different variety of anise (*Pimpinella anisum* L.) under efficient and marginal lands in Çukurova area (Turkey), In: *1st National Congress on Medicinal Plants*, Iran, 2012.

E12. Roshdi M., Soltanbeigi E., Khalili Mahalleh J., Kharazmi K., Effect of the using Chloromequat to treat seeds and irrigation cessation on vegetative traits and yield of corn varieties, In: *11th congress of Iranian Crop Science*, Iran, 2010.