



مشخصات شخصی

اسماعیل بخشنده (Esmail Bakhshandeh)

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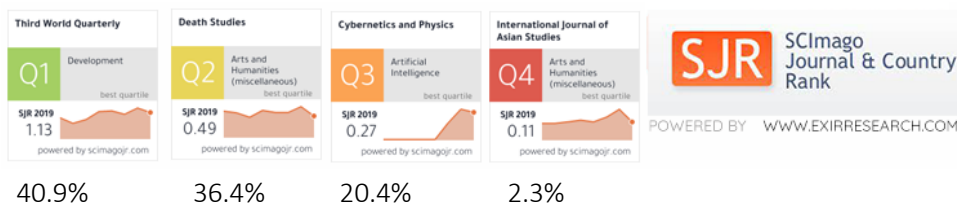
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وضعیت شغلی

- عضو هیات علمی پژوهشکده ژنتیک و زیست‌فناوری کشاورزی طبرستان، دانشگاه علوم کشاورزی و منابع طبیعی ساری

سوابق تحصیلی

- کارشناسی تولیدات گیاهی گرایش زراعت، دانشگاه شهید باهنر کرمان، ۱۳۸۷
- کارشناسی‌ارشد زراعت، دانشگاه علوم کشاورزی و منابع طبیعی گرگان، ۱۳۹۰
- دکتری فیزیولوژی مولکولی، دانشگاه علوم کشاورزی و منابع طبیعی ساری، ۱۳۹۴

سوابق پژوهشی

- انتشار ۵۲ مقاله در مجلات بین‌المللی
- انتشار ۲۷ مقاله در مجلات داخلی
- انتشار ۸۰ مقاله در کنفرانس‌های ملی و بین‌المللی
- اتمام ۱۰ طرح تحقیقاتی به عنوان مجری و همکار
- راهنمایی و مشاوره بیش از ۲۰ دانشجوی کارشناسی‌ارشد و دکتری
- داور بیش از ۳۰ مجله معتبر ملی و بین‌المللی

سابقه تدریس

- تدریس بیش از ۱۰ عنوان درس در مقاطع کارشناسی، کارشناسی‌ارشد و دکتری در دانشگاه علوم کشاورزی و منابع طبیعی ساری و دانشگاه پیام نور
- برگزاری بیش از ۶ کارگاه آموزشی در دانشگاه علوم کشاورزی و منابع طبیعی ساری

سوابق اجرایی

- مدیر آموزش دانشگاه علوم کشاورزی و منابع طبیعی ساری

- مدیر گروه زراعت و اصلاح برنج، پژوهشکده ژنتیک و زیست‌فناوری کشاورزی طبرستان، دانشگاه علوم کشاورزی و منابع طبیعی ساری
- مدیر پژوهش، پژوهشکده ژنتیک و زیست‌فناوری کشاورزی طبرستان، دانشگاه علوم کشاورزی و منابع طبیعی ساری
- عضو کمیته اجرایی و داوری شانزدهمین همایش ملی برنج کشور، پژوهشکده ژنتیک و زیست‌فناوری کشاورزی طبرستان، دانشگاه علوم کشاورزی و منابع طبیعی ساری
- عضو کمیته اجرایی و داوری پانزدهمین همایش ملی برنج کشور، پژوهشکده ژنتیک و زیست‌فناوری کشاورزی طبرستان، دانشگاه علوم کشاورزی و منابع طبیعی ساری

افتخارات

- پژوهشگر برتر دانشگاه علوم کشاورزی و منابع طبیعی ساری، ۱۳۹۸
- رتبه اول در تمامی مقاطع تحصیلی (کارشناسی، کارشناسی ارشد و دکتری)
- دانشجوی پژوهشگر نمونه دانشکده‌های علوم کشاورزی دانشگاه علوم کشاورزی و منابع طبیعی گرگان، ۱۳۸۹
- دانشجوی فعال و ساعی در امر پژوهشی و آموزشی دانشکده کشاورزی (بخش تولیدات گیاهی)، ۱۳۸۷

عضویت‌ها

- عضو کارگروه امنیت غذایی، دانشگاه علوم کشاورزی و منابع طبیعی ساری (۱۴۰۱-ادامه دارد)
- عضو بنیاد ملی نخبگان کشور (۱۳۹۰-ادامه دارد)
- پژوهشگر مرکز پژوهش، توسعه و امور نخبگان سازمان اتکا، تهران (۱۳۹۰-۱۳۹۲)
- عضو انجمن علوم زراعت و اصلاح نباتات ایران (۱۳۸۹-ادامه دارد)
- عضو انجمن پژوهشگران جوان دانشگاه شهید باهنر کرمان (۱۳۸۶-۱۳۸۷)

Selection of 5 Top publications

1. Zeraatpisheh, M., **Bakhshandeh, E.**, Hosseini, M., & Alavi, S. M. (2020). Assessing the effects of deforestation and intensive agriculture on the soil quality through digital soil mapping. *Geoderma*, 363, 114139. doi:10.1016/j.geoderma.2019.114139 ([Highly Cited Paper, top ۱۰۰ citations](#))
2. **Bakhshandeh, E.**, Gholamhosseini, M., Yaghoubian, Y., & Pirdashti, H. (2020). Plant growth promoting microorganisms can improve germination, seedling growth and potassium uptake of soybean under drought and salt stress. *Plant Growth Regulation*, 90(1), 123-136. doi:10.1007/s10725-019-00556-5
3. **Bakhshandeh, E.**, Hossieni, M., Zeraatpisheh, M., & Francaviglia, R. (2019). Land use change effects on soil quality and biological fertility: A case study in northern Iran. *European Journal of Soil Biology*, 95, 103119. doi:10.1016/j.ejsobi.2019.103119
4. **Bakhshandeh, E.**, Francaviglia, R., & Renzi, G. (2019). A cost and time-effective method to evaluate soil microbial respiration for soil quality assessment. *Applied Soil Ecology*, 140, 121-125. doi:10.1016/j.apsoil.2019.04.023
5. **Bakhshandeh, E.**, Pirdashti, H., & Gilani, Z. (2018). Application of mathematical models to describe rice growth and nutrients uptake in the presence of plant growth promoting microorganisms. *Applied Soil Ecology*, 124, 171-184. doi:10.1016/j.apsoil.2017.1.0.040

Publications

1. Beacknejad Daroonkolaei, Sadegh; Amerian, Mohammad Reza; Pirdashti, Hemmatollah; **Bakhshandeh, Esmail**; Gholami, Ahmad; 2023. Evaluation of the impact of potassium solubilizing bacteria on potassium efficiency and yield of canola under saline and non-saline soil conditions. *Archives of Agronomy and Soil Science*, 69: 1437-1453
2. Mahmoudi, Maher; Boughalleb, Fayçal; Maaloul, Sameh; Zaidi, Slah; **Bakhshandeh, Esmail**; Abdellaoui, Raoudha; 2023. The effect of seasonality on the phytochemical composition of two

Limonium species naturally growing in a Mediterranean arid-salt marsh: Harvesting time optimization by modeling approach. *Scientia Horticulturae*, 309: 111616

3. Hosseini Sanehkooi, Fatemeh; Pirdashti, Hemmatollah; **Bakhshandeh, Esmail**; 2023. Effect of environmental factors on *Camelina sativa* seed germination and emergence. *Acta Physiologiae Plantarum*, 45: 4
4. **Bakhshandeh, Esmail**; Hosseini Sanehkooi, Fatemeh; Ghorbani, Hamidreza; Nematzadeh, Ghorban Ali; Sekrafi, Mansour; Abdellaoui, Raoudha; Yaghoubi Khanghahi, Mohammad; Crecchio, Carmine; 2023. Quantifying plant biomass and seed production in camelina (*Camelina sativa* (L.) Crantz) across a large range of plant densities: Modelling approaches. *Annals of Applied Biology*, :
5. Hosseini Sanehkooi, Fatemeh; **Bakhshandeh, Esmail**; Pirdashti, Hemmatollah; Abdellaoui, Raoudha; Boughalleb, Fayçal; Gholamhosseini, Mobina; 2023. Quantification of camelina germination niche to combined salinity and temperature stresses using a halothermal time model. *Botany*, 101: 88-97
6. Hayder, Zaineb; Sekrafi, Mansour; Tlili, Abderrazak; Boughalleb, Fayçal; **Bakhshandeh, Esmail**; Abdellaoui, Raoudha; Tarhouni, Mohamed; 2023. Modeling germination responses of three stem-succulent halophytes of Mediterranean salt marshes to salinity and temperature. , :
7. Babaei, Mahshid; Pirdashti, Hemmatollah; **Bakhshandeh, Esmail**; 2023. Ultrasonic waves improve aged seed germination of castor bean (*Ricinus communis* L.) under drought and salt stresses. *Acta Physiologiae Plantarum*, 45: 90
8. Abdellaoui, Raoudha; Elkelish, Amr; El-Keblawy, Ali; Mighri, Hedi; Boughalleb, Fayçal; **Bakhshandeh, Esmail**; 2023. Halophytes: salt stress tolerance mechanisms and potential use. *Frontiers in Plant Science*, 14: 1218184
9. Zeraatpisheh, Mojtaba; Bottega, Eduardo Leonel; **Bakhshandeh, Esmail**; Owliaie, Hamid Reza; Taghizadeh-Mehrjardi, Ruhollah; Kerry, Ruth; Scholten, Thomas; Xu, Ming; 2022. Spatial variability of soil quality within management zones: Homogeneity and purity of delineated zones. *Catena*, 209: 105835
10. Mishra, Gaurav; Sulieman, Magboul M; Kaya, Fuat; Francaviglia, Rosa; Keshavarzi, Ali; **Bakhshandeh, Esmail**; Loum, Macoumba; Jangir, Abhishek; Ahmed, Ibrahim; Elmobarak, Abdelmagid; 2022. Machine learning for cation exchange capacity prediction in different land uses. *Catena*, 216: 106404
11. Khodabin, Ghorban; Tahmasebi-Sarvestani, Zeinolabedin; Shirani Rad, Amir Hossein; **Bakhshandeh, Esmail**; Khayat Moghadam, Mojdeh Sadat; Kazemi, Shahryar; Rafati Alashti, Mahsa; Heidarzadeh, Ali; 2022. Evaluation of the Effects of Zinc and Manganese Sulfate on the Improvement of Physiological Characteristics and Yield of Rapeseed Genotypes under Late-Season Drought Stress. *Journal of Crops Improvement*, 24: 1217-1232
12. Moghadam, Mojdeh Sadat Khayat; Rad, Amir Hossein Shirani; Khodabin, Ghorban; Jalilian, Ashkan; **Bakhshandeh, Esmail**; 2022. Application of silicon for improving some physiological characteristics, seed yield, and oil quality of rapeseed genotypes under late-season drought stress. *Journal of Soil Science and Plant Nutrition*, 22: 2872-2890
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14. **Bakhshandeh, Esmail**; Jamali, Mohsen; Emadi, Mostafa; Francaviglia, Rosa; 2022. Greenhouse gas emissions and financial analysis of rice paddy production scenarios in northern Iran. *Agricultural Water Management*, 272: 107863
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16. **Bakhshandeh, Esmail;** Abdellaoui, Raoudha; Boughalleb, Fayçal; Jamali, Mohsen; 2022. Quantification of green bean germination response to simultaneous salt and temperature stress: a modeling approach. *Acta Physiologiae Plantarum*, 44: 134
17. Jamali, Mohsen; **Bakhshandeh, Esmail;** Emadi, Mostafa; 2022. Effects of Water Source and Technology on Energy Use and Environmental Impacts of Rice Production in Northern Iran. *Water Resources Research*, 58: e2021WR031546
18. **Bakhshandeh, Esmail;** Abdellaoui, Raoudha; Boughalleb, Fayçal; 2021. Modeling the effects of salt stress and temperature on seed germination of cucumber using halothermal time concept. *Theoretical and Experimental Plant Physiology*, 33: 79-93
19. Sanekhoori, Fatemeh Hosseini; Pirdashti, Hemmatollah; **Bakhshandeh, Esmail;** 2021. Quantifying water stress and temperature effects on camelina (*Camelina sativa* L.) seed germination. *Environmental and Experimental Botany*, 186: 104450
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21. Khodabin, Ghorban; Tahmasebi-Sarvestani, Zeinolabedin; Rad, Amir Hossein Shirani; Modarres-Sanavy, Seyed Ali Mohammad; Hashemi, Seyed Mohammad; **Bakhshandeh, Esmail;** 2021. Effect of late-season drought stress and foliar application of znso 4 and mnso 4 on the yield and some oil characteristics of rapeseed cultivars. *Journal of Soil Science and Plant Nutrition*, 21: 1904-1916
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29. **Bakhshandeh, Esmail;** Pirdashti, Hemmatollah; Vahabinia, Fatemeh; Gholamhossieni, Mobina; 2020. Quantification of the effect of environmental factors on seed germination and seedling growth of *Eruca* (*Eruca sativa*) using mathematical models. *Journal of Plant Growth Regulation*, 39: 190-204

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34. **Bakhshandeh, Esmail**; Jamali, Mohsen; 2020. Population-based threshold models: A reliable tool for describing aged seeds response of rapeseed under salinity and water stress. *Environmental and Experimental Botany*, 176: 104077
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37. Zeraatpisheh, Mojtaba; **Bakhshandeh, Esmail**; Emadi, Mostafa; Li, Tengfei; Xu, Ming; 2020. Integration of PCA and fuzzy clustering for delineation of soil management zones and cost-efficiency analysis in a citrus plantation. *Sustainability*, 12: 5809
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43. Namvar-hamzanlue, H; Aghajani, MA; Mahdian, SA; **Bakhshandeh, E**; 2020. Incidence-Severity Relationship for downy mildew of grapevine in North Khorasan Province. *Plant Protection (Scientific Journal of Agriculture)*, 43: 17-29
44. Abdellaoui, Raoudha; Boughalleb, Fayçal; Zayoud, Dhikra; Neffati, Mohamed; **Bakhshandeh, Esmail**; 2019. Quantification of *Retama raetam* seed germination response to temperature and water potential using hydrothermal time concept. *Environmental and Experimental Botany*, 157: 211-216

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47. **Bakhshandeh, Esmail**; Francaviglia, Rosa; Renzi, Gianluca; 2019. A cost and time-effective method to evaluate soil microbial respiration for soil quality assessment. *Applied Soil Ecology*, 140: 121-125
48. **Bakhshandeh, Esmail**; Hossieni, Mehdi; Zeraatpisheh, Mojtaba; Francaviglia, Rosa; 2019. Land use change effects on soil quality and biological fertility: A case study in northern Iran. *European Journal of Soil Biology*, 95: 103119
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51. **Bakhshandeh, Esmail**; Pirdashti, Hemmatollah; Gilani, Zahra; 2018. Application of mathematical models to describe rice growth and nutrients uptake in the presence of plant growth promoting microorganisms. *Applied soil ecology*, 124: 171-184
52. **Bakhshandeh, E**; Pirdashti, H; Gilani, Z; 2018. Improving yield and nutrients uptake of rice in the presence of plant growth promoting microorganisms. *Exploring Microorganisms: Recent Advances in Applied Microbiology*, : 6
53. **Bakhshandeh, Esmail**; Gholamhossieni, Mobina; 2018. Quantification of soybean seed germination response to seed deterioration under peg-induced water stress using hydrottime concept. *Acta Physiologiae Plantarum*, 40: 44934
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64. **Bakhshandeh, E.,** Rahimian, H., Pirdashti, H., Nematzadeh, GH.; 2015. Evaluation of phosphate-solubilizing bacteria on the growth and grain yield of rice (*Oryza sativa* L.) cropped in northern Iran. *Journal of Applied Microbiology*, 119: 1371-1382
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