In the name of almighty God
Curriculum Vita

1- Personal Data
First name: **Abolfazl**
Last name: **Ranjbar-Fordoei**
Birth of birth: **1/March/1960**
Place of birth: **Qom, Iran**

Education

- 1983-1986, Bachelor of Science in Natural Resources Engineering, Faculty of Natural Resources, University of Mazandaran, Gorgan, Iran.
- 1987-1990, Master of Science in Range Ecology, Faculty of Natural resources, University of Tehran, Karaj, Iran.
- 1996- 2000, Ph.D., in Plant Biology, (plant ecophysiology of arid lands), Faculty of Agriculture, University of Ghent, Ghent, Belgium

- Following a postdoc in stress physiology (salinity and drought stresses)

Msc. thesis: "Assessment of salinity stress on nutritional value of two *Atriplex* species (*A. canescence* and *A. lentiformis*)

PhD dissertation: "Ecophysiological characteristics of two Iranian native pistachio species (*Pistacia mutica* and *P. khinjuk*) under salinity and drought stresses.

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2- Teaching records

- Plant ecology[1]
- Foundations of ecology[1]
- General ecology[1]
- Range ecology[1]
- Remediation of arid and semiarid regions[2]
- Plant ecophysiology[2]
- Generalities of desert ecology[2]
- Natural resources[1]
- Rangeland management[1]
- Water, soil, plant and atmosphere continuum[1]
- Water, soil, plant and atmosphere continuum[2]
- Desert plant ecophysiology[2]
- Knowledge of desert regions[2]

- Desert ecology[3]
- Soil ecology[3]
- Plant ecophysiology of Arid regions[3]
- Advanced ecological topics[3]
- Ecosystem ecology[3]
- Restoration ecology[3]
- Ecohydrology[3]
- Physic and modeling of wind erosion[3]
- Water productivity[23]

1; taught for graduate students
2; taught for MSc student
3; taught for Ph.D. student

3- Publications

3-1- Papers published in English journals

1-Ranjbarfordoei A. and Van Damme P.: Estimation of leaf area by non-destructive methods in three Iranian pistachio species (Pistacia mutica subsp. Cabulica, P. khhnjuk subsp. Oblonga and P. khinjuk subsp. Populifolia. -Med Fac. Landbouw. Univ. Gent 64(2):49-54, 1999.

2-Ranjbarfordoei A., Samson R., Van Damme P. and Lemeur R.:Gas exchange leaf water status of two pistachio species (*Pistacia mutica* and *P. khinjuk*) in their response to osmotic drought stress. -Med Fac. Landbouw. Univ. Gent 64(4):105-110, 2000

3-Ranjbarfordoei A., Samson R., Lemeur R. and Van Damme P.: Effects of drought stress induced by polyethylene glycol on physiological performance two pistachio species (*Pistasia mutica* and *P.khinjuk*). -Med Fac. Landbouw.Univ. Gent 65(4):11-115,2000.

4-Ranjbarfordoei A., Samson R., Lemeur R. and Van Damme P.: Effects of drought stress induced by polyethylene glycol on pigment content and photosynthetic gas exchange of *Pistacia mutica and P. khinjk*. Photosynthetica 38(3)443-447, 2000.

5- Ranjbarfordoei A., Samson R., Lemeur R. and Van Damme P.: Some ecophysiological characteristics of two pistachio species (*Pistacia mutica* and *P. khinjuk*) in response to salinity. Cahiers Option Mediterranean, Vol.59:179-187, 2001.

6- Ranjbar Fordoei A., Samson R., Lemeur R. and Van Damme P.: Effects of drought stress induced by a combination of NaCl and polyethylene glycol on leaf water status, Photosynthetic gas exchange, and water use efficiency of two Pistacia mutica and P. khinjuk. Photosynthetica40(2)165-169, 2002.

7- Ranjbar Fordoei A., Samson R., and Van Damme P.: Chlorophyll fluorescence performance of sweet almond (*prunus dulcis* (Miller)D. Webb) in response to salinity stress induced by NaCl. Photosynthetica 44(4):513-522, 2006.

8- Ranjbar Fordoei A.: Using photosystem II chlorophyll fluorescence to study photosynthetic activities in sweet almond. International Society for Horticultural Science, 2006.

9- Ranjbar Fordoei A., Samson R., and Van Damme P.: Elevated Ultraviolet –B Radiation Influences Photosynthetic Pigment and Soluble carbohydrates of sweet almond (prunus dulcis (Miller)D. Webb). Electronic Journal of Environmental Agricultural and Food Chemistry (EJEAFCHE). ISSN: 1579-4377: 1077-1084, 2009.

10- Ranjbar Fordoei A., Samson R., and Van Damme P., Zamani G. Phenological analysis of forage quality in Astragalus effuses. Indian J. Crop Science4 (1-2): 137-140, 2009.

11- Ranjbar Fordoei A., Samson R., and Van Damme P.: Photosynthesis Performance in sweet Almond (*Prunus dulcis*) Exposed to Supplemental UV-B Radiation. Phtosynthetica 49(1):107-111, 2011.

12- Bavi V., Shiran B., Khoddambashi M., Ranjbar Fordoei A. Protein electrophoretic profiles and physiochemical indicators of salinity tolerance in sorghum (*sorgum bicolor* L.). African Jornal of Biotechnology, 10(14): 2683-2697, 2011.

13- Ranjbar Fordoei A., Van Damme P. and Samson R., 2013. Some ecophysiological characteristics of artà (*Calligonum comosum* Hérit) in response to drought stress. For. Sci. Pract., 15(2): 114–120.

14- Dehghani Bidgoli R., Ranjbar Foei, A., Davoud Akhzari C. 2012. Estimation of Nutritive Values in Some Range Species as Indicators for Range Management, *Journal of Rangeland Science* (2-4): 669-676.

15- Dehghani Bidgoli R., Ranjbar Frei, A. 2013. Vegetation types and rangeland species nutritional values and forage quality indicators at various phonological stages. International journal of plant physiology and biochemistry 5(2): 16-24.

16- Heydarnezhad S., Ranjbar-Fordoie, A. 2014. Impact of aeolian dust accumulation on some biochemical parameters in black saxaul (*Haloxylon aphyllum* Bunge) leaves: a case study for the Aran-Bidgol region, Iran**.** *Int. J. Forest, Soil and Erosion*, 4 (1): 11-15.

17- Mousavi S.H, Moayeri M., Vali A.A., Ranjbar A., Iravani M.R., Ghazavi R., 2013. Geomorphological mapping of processes and forms in Haj Ali Gholi playa, Central Iran, Journal of Social Issues & Humanities, 1(4): 9-3.

18- Mousavi S.A., Ranjbar Fordoei A. 2014. Differential accumulation of physio-biochemical parameters in nitere bush (*Nitraria schoberi* L.) plants against salinity. Journal of Biodiversity and Environmental Sciences, 4(6): 487-494.

19- Mousavi S.A, Shahriari A., Fakhire A., Ranjbar Fordoei A., Rahdari, V., 2014. Assessment of changes trend of land cover with use of remote sensing data in Hamoon wetland. Journal of Biodiversity and Environmental Sciences, 4(5): 146-156.

20- Heydarnezhad S., Ranjbar Fordoei, A. 2014. Differential accumulation of physio-biochemical parameters in Ertà (*Calligonum comosum* Hérit) plants against water deficiency**.** *Int. J. Forest, Soil and Erosion*, 4 (3): 96-100.

21- M., Ghorbani, A., Ranjbar Fordoei, F., Panahi, J. Attarha, N. Marzbani**,** 2014**.** Salinity and *Nitraria schoberi*: Growth Parameters, Chlorophyll Content and Ion Accumulation. International Journal of Agriculture and Crop Sciences, 7 (11): 853-862.

22- Ranjbar Fordoei A., Dehghani Bidgoli R., 2016. Impact of Salinity Stress on Photochemical Efficiency of Photosystem II, Chlorophyll Content and Nutrient Elements of Nitere Bush (*Nitraria schoberi* L.) Plants. Journal of Rangeland Science 6(1): 1-8.

23- Ranjbar Fordoei A. 2015: Variation characteristics of chlorophyll fluorescence of a typical eremophyte (*Smirnovia iranica* (Sabeti)) during phenological stages in the sand drift desert: a case study in Kashan region. Desert (21-1): 35-41.

24- M. Mahdavi, A. Ranjbar, E. Zand Esfahan, R. Dehghani, 2016. Estimating Qualitative Parameters of Three Halophytes using NIR Technology. Biological Forum, 8(2): 01-06.

25- Soleimani Sardo M., Ranjbar Fordoei A., Mousavi S.H., 2016. Evaluation of desertification hazard in the Jaz_Murian aquifer based on analysis of climate and groundwater criteria. Journal of Biodiversity and Environmental Sciences, (JBES), 9(1): 337-347.

26- Ranjbar-Fordoei A. 2017. Comparative study on the effect of water stress and rootstock on photosynthetic function in pistachio (*Pistacia vera* L.) trees. Journal of nuts, 8(2): 151-159. Under press.

27- Ranjbar-Fordoei A., Zand Esfahan E. (2017) Effects of atmospheric dust deposition on leaf chlorophyll fluorescence parameters of *Smirnovia iranica* in desert regions of Kashan, Iran. Journal of Environmental resources research,

28- Abolfazl Ranjbar. 2018. Comparative Functioning of Photosynthetic Apparatus and Leaf Water Potential in *Zygophyllum eurypterum* (Boiss & Bushe) During Phenological Phases and Summer Drought. Desert Ecosystem Engineering Journal, 43-50.

29- Abolfazl Ranjbar, Marzieh Taabe, Seiied Hojjat mousavi, Mohamad Khosroshahi. 2018. Quantifying the vegetation health based on the resilience in an arid system. Ekológia (Bratislava), 73(1): 32–41, DOI:10.2478/eko-2018-0004.

30- Abolfazl Ranjbar. 2018. Relationships between Soil Properties and Plant Species Diversity in Natural and Disturbed Ecosystems (Case Study: Jamilabad Region, Kerman Province, Iran). Journal of Rangeland Science, 8(4): 341-351.

31- Ranjbar-fordoei A. 2019. Impacts of Elevational Changes and Leaf Maturity Stages on Photoprotective Strategies and Biochemical Traits of Wild Fig [*Ficus Carica* Subsp. Rupestris (Hausskn)], International journal of fruit science. DOI.10.1080/15538362.2019.1673874.

32- Ranjbar A., Arast M., Mousavi S.H., Abdollahi Kh. 2019. Assessment of Groundwater Level Variations in Different Land-Uses Using GRACE Satellite Data (Case Study: Zayanderud Basin, Iran). Journal of Hydrosciences and Environment, 52-59.

33- Heydarnejad S., Ranjbar A., Seyed Hojjat Mousavi S.H., Mirzaei M. 2019. Estimation of Soil Erosion Using SLEMSA Model and OWA Approach in Lorestan Province (Iran). Journal of Environmental Resources Research, 8(1): 11-24.

34- Vali A., Ranjbar A., Mokarram M., Farideh Taripanah F. 2019. Investigating the topographic and climatic effects on vegetation using remote sensing and GIS: a case study: Kharestan region, Fars Province, Iran. Theoretical and Applied Climatology, DOI.org/10.1007/s00704-019-03073-7.

36- Ranjbar A., Heydarnejad S., Seyed Hojjat Mousavi S.H., Mirzaei M. 2019.Mapping desertification potential using life cycle assessment method: a case study in Lorestan Province, Iran. Journal of Arid Land, 11(5): 652–663. doi.org/10.1007/s40333-019-0064-z

37- Ranjbar A. (2019) The Study of Different Water Regimes on Photosynthetic Performance and Leaf Water Status of Pistachio Trees (*Pistacia vera* L.). Journal of Nuts 10(1): 25-34. DOI: 10.22034/jon.2019.665034.

38- Arast M, Ranjbar A, Mousavi SH, Abdollahi K and Honarbakhsh A (2019) Relationship between groundwater level variations using Grace satellite data and rainfall. Proceedings of the Institution of Civil Engineers – Water Management, doi.org/10.1680/jwama.19.00038

39- Ranjbar A., Vali A., Mokarram M., Farideh Taripanah F. (2020) Investigating variations of vegetation: climatic, geological substrate, and topographic factors—a case study of Kharestan area, Fars Province, Iran. Arabian Journal of Geosciences, doi.org/10.1007/s12517-020-05615-0.

40- Reza Bagheri, Abolfazl Ranjbar Fordoei, Seyed Hojat Mousavi, Pejman Tahmasebi (2021) Assessment of MODIS-Derived NDVI and EVI for Different Vegetation Types in Arid Region: A Study in Sirjan Plain Catchment of Kerman province, Iran. Journal of Rangeland Science, 11(1): 50-73.

41- Farideh Taripanah, Abolfazl Ranjbar (2021), Quantitative analysis of spatial distribution of land surface temperature (LST) in relation Ecohydrological, terrain and socio- economic factors based on Landsat data in mountainous area. Advances in Space Research, 86(9): 3622-3640.

42- Zohre Ebrahimi-Khusfi, Abolfazl Ranjbar F. 2025. The impact of natural factors and human activities on the dust vulnerable regions in central Iran. Environmental Science and Pollution Research. https://doi.org/10.1007/s11356-025-36453-w

3-2- Papers published in Persian Scientific Journals

1-Sharafi M., Ranjbar A., Begi-Harchegani H., Iranipour R. (2014). Effects of soil cobalt on some growth parameters of pinto bean. Iranian Journal of Soil Research, 27(1):

2- Mousavi S.H., Vali A., Moaiieri M., Ranjbar A. (2013) Monitoring of desertification condition in Haj Ali-Gholi desert (1987-2000). Quantitative geomorphological research, 4:

3-Dastan D., Vali A., Mousavi S.H., Ranjbar A. (2013) explanation of land form and geomorphic effects on physical development of Yasouj city. Biannual Journal of urban ecology researches, 3(6)

4-Ranjbar A., Dehghani R. (2014) aggregation of nutrient elements, biochemical factors in prunus dulcis under salinity conditions. Iranian Journal of Soil Research, 28(4): 625-634.

5-Ghorbani M., - Ranjbar A. Panahi F. (2014). Assessment effects of salinity stress on growth parameters and salt tolerance in *Nitrarial schoberi*. Annual journal of Natural Resources, 1(1): 48-60.

6- Heydarnejad S., Ranjbar A. (2014) Assessment of salinity stress on some growth parameters and accumulation of ions in *Seidlitzia rosmarinus.* Journal of desert ecosystem engineering, 3(4): 1-10.

7- Veisi V., Ranjbar A., Mousavi S.H. (2014) Monitoring of vegetation changes in Novakooh semiarid forests using remote sensing. Journal of desert ecosystem engineering, 4(9): 57-70.

8- Ranjbar Fordoei A., Heydarnejad S. (2015) leaf water status, proline content and total soluble sugars rate in *Smirnovia iranica* plants under habitat conditions. Journal of desert ecosystem engineering, 4(6): 55-62

9- Heydarnejad S., Ranjbar Fordoei A. Vali A. (2015) Assessment of photosynthetic pigments content and nutritional elements in *Seidlitzia rosmarinus L* under salinity stress. Journal of Plant Process and Function, 4(13): 37-45.

10- Soleimani Sardo M., Ranjbar A., Ghazavi R., Vali A. (2015) Assessment and map production of sensitive areas to desertification using ESAs method. A case study Ardakan plane, Iran. Iranian Journal of Soil Research, 22(2): 191-204.

11- Attarha J., Ranjbar A., Panahi F. (2015). Study of salinity effect on growth and salinity tolerance in Tamarisk seedling. Journal of Natural Resources and sustainable development. نشریه توسعه و پایداری منابع طبیعی

12-Ranjbar A., Panahi F. (2015) Effect of alkanity stress on chlorophyll content, carotenoeids, total soluble sugars and growth parameters in *Nitraria schoberi* plants. Journal of Natural Resources and sustainable development. نشریه توسعه و پایداری منابع طبیعی

13- Ranjbar A., Mousavi A. (2015). Effects of drought stress on efficiency of photosystem II and pigment content in Nitraria schoberi plants. Journal of plant ecophysiology, 7(21): 86-97. نشریه اکوفیزیولوژی گیاهی

14- Ranjbar A., Sadatinejad S.J. (2015). Identification of drought and salinity stresses using chlorophyll fluorescence parameters in *Pistacia mutica* plants. Journal of Ecohyrology, 2(3): 253-260.نشریه اکوهیدرولوژی

15- Ranjbar A. (215) Application of chlorophyll fluorescence in assessment of photosynthetic system function in *Pistacia khonjuk* plants under pressure of osmotic stress. Journal of plant process and function, 6(19): 247-253. نشریه فرآیند و کارکرد گیاهی

16- Mousavi S.H., Ranjbar A., Haseli M (2016) Monitoring trend of land use changes in Abarkooh area using satellite data. Scientific - Research Quarterly of Geographical Data (SEPEHR), 25(27): 129-141نشریه اطلاعات جغرافیایی، سپهر

17- Soleimani Sardo M., Ranjbar A., Mousavi S.H. (2016) Assessment of desertification risk in Jazmourian area with emphsize on geology and geomorphology. Journal of desert ecosystem engineering, 5(10): 109-121. نشریه مهندسی اکوسیستم بیابان

18- Mousavi S.H., Vali A., Ranjbar (2016) climatical modeling of desertification events in Haj-Ali-Gholi desert area. Iranian journal of range and desret researches, 23(3): 499-515. نشریه تحقیقات مرتع و بیابان

19- Mousavi S.A., Ranjbar A., Sadatinejad s.J. (2016) Modling of soil eridibility in Khour-Biabanak region using remote sensing indices. Journal of Deseret Ecosystem Enjineering, 5(13): 67-80.نشریه مهندسی اکوسیستم بیابان

20- Mousavi S.H., Vali A., Ranjbar A., Dastan D. (2016) Location-finding of suitable places for future development of Yasouj city. Geographical Urban Planning Research, 4(1): 69-88.
نشریه پژوهش های جغرافیای شهری

21- Ranjbar A., Mousavi S.H., Sharifian-Arani S.M. (2017) Assessment of suiteable lands for tourism vilage. Journal of Tourim and development. 6(11): 169-189. نشریه گردشگری و توسعه

22- Heydarnejad S., Ranjbar A., Mousavi S.H., Mirzaei R. (2017) Assessment of ecoregions' sensetivity to desertifivation in frame of lif cycle assessment in Lurestan province, Iran. Journal of RS and GIS for Natural Resources, 8(1): 19-34.
نشریه دورسنجی (RS) و سیستم های جغرافیایی (GIS) برای منابع طبیعی

23- Mousavi S.A., Mousavi S.H., Ranjbar A., Sadatinejad s.J. (2017). Sparial destribution of factor affecting soil erodibility in Khoor-biabanak regione. Journal of Ecohydrology, 4(2): 561-571. نشریه اکوهیدرولوژی

24- Saeidy H.M., Ranjbar- A., Soleimani Sardo M. (2017) Effects of salinity and drought stresses on germination and growth of black cumine. Iranian journal field cropp research, 15(1): 1-7.
نشریه تولید و فراوری محصولات زراعی

25- Mousavi S.A., Ranjbar A., Mousavi S.H., Sadatinejad s.J. (2017). Modelling of soil reodibility in Khoor-biabanak regione. Iranian journal of range and desert researches, 24(3): 651-660.
نشریه تحقیقات مرتع و بیابان

26- Ranjbar A. (2017) Effects of UV-B radiation and cadmium on some echophysiological characteristics in lettace. Journal of plant researches, 30(4): 978-989.نشریه پژوهش‌های گیاهی

27- Mahdavi M.J. Ranjbar A., Zandi Esfahan A., Dehghani R. (2017) Determination of ptential in hallopjytes as source of oils. Iranian journal of range and desert researches, 24(4): 881-890.نشریه علمی تحقیقات مرتع و بیابان

28- Tabea M., Ranjbar A., Mousavi S.H., Khosrov-shahi M. (2017) Study of qualitative ecological vegetative resillience in response to long term changes of precipitation. Journal of Geography and environmental sustainability, 22: 49-64.نشریه مطالعات جغرافیایی در مناطق خشک

29- Ranjbar A. (2018) Impact of Aeolian Dust on Leaf Biochemical and Biophysical Attributes of Pistachio (*Pistacia vera* L.): A Case Study for the Kashan (Central Iran) Pistachio Orchards. Journal of Crop Production and Processing, 8(3): 1-10.
نشریه تولید و فراوری محصولات زراعی

30- Soleimani Sardo M., Ranjbar A., Musavi S.H. (2019). Evaluation of desertification hazard potential in the Jaz-Murian region using wind-water erosion criteria. J. of Water and Soil Conservation, 25(6): 303-310. DOI: 10.22069/jwsc.2018.11346.2571.

نشریه حفاظت آب و خاک

31- Mousavi S.H., Ranjbar A., Sharifian-Arani S. (2018) Assessment of different scenarios for establishment of salt hotel and Safaripark in order to desert tourism development in arid ecosystems. A case study: Maranjbad area. Journal of Geological Studies in Arid Regions, 31(8): 57-73. نشریه علمی مطالعات جغرافیایی در مناطق خشک

32- Soleimani Sardo M., Roostaii F., Ranjbar A., Ghazavi R., Vali A.A. (2015) Assessment and Mapping of Areas Sensitive to Desertification in the Yazd-Ardakan Plain. J. of Water and Soil Conservation, 22(2): 191-204.نشریه حفاظت آب و خاک

33- Sohrabi T., Ranjbar A. Vlai A. Mousavi S.H. 2018. Quantitative analyzing feedback of vegetation effects on dust storm events in arid ecosystems. A case study: Isfahan province. Journal of range and watershed management (Natural Resources of Iran), 71(4): 973-985.
نشریه منابع طبیعی ایران

34- Ranjbar A., Veisi V., Mousavi S.H. (2018) Analyzing of shining potential of sun in arid and semiarid regions in central Iran. Scientific - Research Quarterly of Geographical Data (SEPEHR), 27(107): نشریه علمی اطلاعات جغرافیایی سپهر

35- Sohrabi T., Ranjbar A. Vlai A. Mousavi S.H. 2019. Statistical modeling of dust storms using Poison regression model in Isfahan Province. Iranian journal of Range and Desert Research, 26(3): 421-430.نشریه تحقیقات مرتع و بیابان

36- Kahkhah-Kohan M., Ranjbar, Mousavi S.H. (2019) Assessment of drought dynamics in Sistan and Bluchestan province, using satellite data, Iran. Iranian journal of Range and Desert Research, 26(3): 481-490. نشریه تحقیقات مرتع و بیابان

37- Ranjbar A., Vali A., Makarram M., Taripanah F. (2019) Evaluation Land surface temperature and related parameters using Landsat images: Case study: Kharestan Watershed. Journal of GIS & RS application in planning, 10(1): 85-105.
نشریه دورسنجی (RS) و سیستم های جغرافیایی (GIS) برای منابع طبیعی

38- Vali A., Ranjbar A., Mokarram M., Taripanah F. (2019) An investigation of the relationship between land surface temperatures, geographical and environmental characteristics, and biophysical indices from Landsat images. J. RS & GIS for Natural Resources 10(3):
نشریه دورسنجی (RS) و سیستم های جغرافیایی (GIS) برای منابع طبیعی

39- Ranjbar A., Vali A., Mokarram M., Taripanah F. (2020) Analyzing of the spatio-temporal changes of vegetation and its response to environmental factors in north of Fars province, Iran. Iranian Journal of Remote sensing & GIS, 4(11): 61-82.
نشریه دورسنجی (RS) و سیستم های جغرافیایی (GIS) برای منابع طبیعی

40-Javadi S., Ranjbar Fordoei A., Khosravi H. (2023). Assaying effects of drought on water use efficiency in different uses (a case study, Tehran province). Iranian Journal of Arid Biome., 2(31): 1-15. نشریه خشک بوم

42-Javadi S., Ranjbar Fordoei A., Khosravi H., Eskandary H. (2025). Assaying effects of drought on Vegetation and Evapotranspiration Using MODIS Sensor Images: A Case Study of Tehran Province. Iranian Journal of Rangeland. Issue 3(18): 399-417.نشریه مرتع

43- Farzanehpey F., Abolfazl Ranjbar-Fordoei A., Khosravi H., Sayyed Hojjat Mousavi S.H. (2023). Evaluation of dust changes and its relationship with temperature (a case study: Khuzestan province). Iranian Journal of Integrated Watershed Management. Spring, 2024, 4(1), 16-29. doi: 10.22034/IWM.2024.2014553.1112.نشریه مدیریت جامع حوزه های آبخیز

44- Ebrahimi-Khusfi Z., Ranjbar Fordoei A. (2024). Analysis of the spatial and temporal changes of the dust aerosols optical depth across different regions of Kerman province in the last 23 years. Journal of Environmental Erosion Research. 14 (3):102-122. DOI: http//doi.org/ نشریه پژوهش های فرسایش محیطی

45- Ranjbar Fordoei A. Ebrahimi-Khusfi Z., (2024). Analysis of internal and external dust contributions and their spatial-temporal changes in Kerman province. Journal of Arid Biome. Vol. 14 No. 1 (1-19). نشریه خشک بوم

46- Karimzadeh O., Ranjbar Fordoei A., Ebrahimi-Khusfi Z., (2025) Dahmardeh Behrouz R. Assessment of Heavy Metal Pollution Levels and Spatial Distribution in Road Dust (A Case Study in Health Centers of Yazd City). Journal of Natural Environmental Hazards. Vol.14, Issue 43. (59-78). نشریه مخاطرات محیط طبیعی

47- Nazarian, M.A., Vali, A.A., Ranjbar Fardoei, A. (2024). Multiple assessment of sustainability in desert ecosystem (Case study Mehriz region of Yazd). ECOHYDROLOGY, 12 (2), 762-778. http//doi.org/10.22059/ije.2025.386072.1852.

نشریه اکوهیدرولوژی

48- Ghabraie M., Ranjbar Fordoei A. Ehteram M. (2025). Drought prediction using a collaborative LSTM model (Case study: North of Isfahan province). Iranian Water Research Journal, 1(19), 56. https://dx.doi.org/10.22034/IWRJ.2025.14963.2637.

نشریه پژوهش‌های آب ایران

3-3- Conference papers

1- Ranjbar A., Van Damme P.: Using chlorophyll fluorescence to detect of Photosynthetic activity in sweet almond (Prunus dulcis Mille.) in response to salinity stress. IV International Symposium on Pistachio and Almond, 22-25 May 2005. Iran

2- Ranjbar A., Van Damme P.: Ecophysiological response of Pistatica khinjuk L. and P. mutica L. to salinity stress. The fourth international Iran and Russia conference "Agriculture and Natural Resources" September 8-10, 2004.Iran.

3-Ranjbar A., Effects of drought stress on ecophysiological characteristics of sweet almond (Prunus amygdalus L. Batsch.). I. Gas exchange content of photosynthetic pigment, and chlorophyll fluorescence. Inter Drought-II. The second international conference approaches to sustain and improve plant production under drought stress. September 24-28, 2005. Roma, Italy.

4- Ranjbar A.: The effect of drought stress on Photosynthetic gas exchange and leaf water relations of sweet almond (*Prunus dulcis* Mill.). The first international conference on the theory and practices in biological water saving. May 21 to 25, 2006. Beijing, China.

5- Ranjbar A.: Rouhi V., Van Damme P. Effects of gibberellic acid and temperature on germination of *Amygdalus scoparia* (Spech) seeds. In: Oliveira M.M. (ed.), Cordeiro V. (ed.). XIII GREMPA Meeting on Almonds and Pistachios. Zaragoza: CIHEAM, 2005. p. 397-401(Options Méditerranéennes: Série A. Séminaires Médi terranens; n. 63).

6- Javad A., Rnjbar A., Panahi F.: 2014. Investigation of salt stress effects on ion accumulation in *Tamarix aphylla*. International conference environmental challenges and dendrology held in institute of Caspian ecosystems, Sari agricultural sciences and natural resources university, Sari, Iran, 14-15 May.

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14- Najafi N., Ranjbar A. (2018) Investigation of dust storms and their impacts in Iran. The 2th international conference on dust April, 25-27, Ilam University, Iran.

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35- Soleimani Sardo M., Ranjbar A., Silahkouri S., Rosstaei F., Mousavi S.A. 2014. Monitoring of drought and wet severity in Kerman city using Z, DI and SPI indices and managing solution. The first conference on optimizing use of water. University of Agriculture and natural resources of Gorgan. 14-15 February. Gorgan, Iran.

36- Pirmohammai M., Ranjbar A., Dehghani_bidgoli R., 2013. Impact of irrigation with sewage on growth parameters in *Poterium sangosorba* seedlings. The first national conference on irrigation and water utilization, November 18, Mashad, Iran.

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38- Mousavi S.H., Ranjbar A., Vali A. 2014. Modeling of desert ecological behavior. A case study: Haj-Ali-Gholi desert areas. The 2th national conference on desert with approach of management in arid and desert regions. October 20-21, University of Semnan, Iran.

39- Mousavi S.H., Vali A., Ranjbar A., Ghazavi R., 2004. Wind flow and sand dune aerodynamics. The 2th national conference on desert with approach of management in arid and desert regions. October 20-21, University of Semnan, Iran.

40- Mousavi S.H., Vali A., Ranjbar A., Ghazavi R. Qanat passive defense; the most important Iranian ancient hydro-structure. The first national conference of passive defense and human sciences. June 19, 2014. University of Kashan, Kashan, Iran.

41- Ranjbar A., Mousavi S.H. The role of compatible osmolytes accumulation and osmoregulation in drought tolerance of Nitraria schoberi plants. The 2th national conference on desert with approach of management in arid and desert regions. October 20-21, University of Semnan, Iran.

42- Heydarnejad S., Ranjbar A. Kiani-MehrK. Investigation of dusts origin, causes and their impacts on vegetation. The 2th national conference on desert with approach of management in arid and desert regions. October 20-21, 2004. University of Semnan, Semnan, Iran.

43- Heydarnejad S., Ranjbar A. Assessment of the different salinity levels on nitrogen absorption in *Seidlidzia rosmarinus*. The second conference of plant physiology. May 7-9, 2004, Isfahan Industrial University, Isfahan, Iran.

44- Mousavi S.H., Ranjbar A., Haesli M. Reconstruction of changes of vegetation density in Abar-Kooh region. The 2th national conference of applied researches in geography (Geography and tourism). October 11, 2014, Tehran, Iran

45- Heydarnejad S., Veisi V., Ranjbar A., Assessment of dust event in Ahvaz city using Hysplit modell (2005-2013). The 1th international conference on dust. March 6-8, 2005. University of Shahid Chamran, Ahvaz, Iran

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47- Ranjbar A., Heydarnejad S., Mousavi S.H. Assessment of *Niraria schoberi* potential for using in dry landscape regarding to chlorophyll fluorescence parameters. The 1th national conference on low water green space. May 2015, University of Kashan, Kashan, Iran.

48- Ranjbar A., Dehghani R. Investigation potential of *Smirnovia iranica* to use in green space regarding leaf water status variables. The 1th national conference on low water green space. May 2015, University of Kashan, Kashan, Iran

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51- Najafi N., Ranjbar A. investigation and monitoring of dust storms in Iran. The first international conference on agriculture, environment and food security. 2017, University of Jiroft, Jiroft, Iran

52- Heydarnejad S., Ranjbar A. Assessment of ground water sources in Lorestan province. The first international conference on agriculture, environment and food security. 2017, University of Jiroft, Jiroft, Iran

Research Projects

4-1- Environmental assessment of desertification in the release of dust storms using life cycle assessment.

4-2- Investigating the trend of changes and preparing the vegetation map of Seno habitat based on biophysical indicators using Landsat multi-temporal images.

4-3- Effects of altitude change and phenology on photo protective strategies and biochemical characteristics in wild fig plants.

4-4- Studying the effect of topographic, echo-hydrological and socio-economic factors on the land surface in mountainous regions.

5- Published Books

5-1- Books published in Persian

5-1-1 Ecology of Desert Organisms (translation, 2003)

5-1-2 Ecophysiology of Photosynthesis (2004)

5-1-3 Geospatial technologies for land degradation assessment and management (translation 2025)

5-2 - Books published in English

5-2-1- The Biology of Desert Plants: Defense Mechanisms against Extreme Conditions (2020)

5-2-2- Climate System and Aeolian Erosion in Terrestrial Planets (2021)

6- Research interests

6-1 Desert dynamics studies; comprising of physical (e.g., wind erosion) and biological (e.g., vegetation change detection)

6-2 Water efficiency, Ecophysiological and ecohydrological studies of arid regions, with emphasizing on the motto "*more crop per drop*"

7- Managerial records

7-1 Dean of the desert combating office in the natural resources department, city of ….

7-2 Group manager of natural resources department (Shahrekord University)

7-3 Dean of agriculture faculty (Shahrekord University)

7-4 Student and cultural vice president of the university (Shahrekord University)

7-5 Student vice president of the university (Shahrekord University)

7-6 Dean of natural resources faculty (University of Kashan)

7-7 Group manager of Desert studies department (University of Kashan)

7-8 Research vice chancellor of the of natural resources faculty (University of Kashan)

7-9 Editors in Chief for the journal of desert ecosystem engineering (University of Kashan)

7-10 Member of editorial board of Environmental studies (University of Tehran)