

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 Mazandran, 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 native pistachio species (*Pistacia mutica* and *P. khinjuk*) under salinity and drought stresses

Contact information:

Academic Email: aranjbar@kashanu.ac.ir

General Email: Illiar5304@gmail.com

Address: Department of Desert Management and Controlling, Faculty of Natural Resources and Earth Sciences, University of Kashan, Kashan, Iran. Postcode: 8731753153

2- Teaching records

- Plant ecology¹
- Foundations of ecology¹
- General ecology¹
- Range ecology¹
- Remediation of arid and semiarid regions²
- Plant ecophysiology²
- Generalities of desert ecology²
- Natural resources¹
- Rangeland management¹
- Water, soil, plant and atmosphere continuum¹
- Water, soil, plant and atmosphere continuum²
- Desert plant ecophysiology²
- Knowledge of desert regions²

- Desert ecology³
- Soil ecology³
- Plant ecophysiology of Arid regions³
- Advanced ecological topics³
- Ecosystem ecology³
- Restoration ecology³
- Ecohydrology³
- Physic and modeling of wind erosion³
- Water productivity²³

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.,Samsin R.,Van Damme P. and Lemeur R.:Gas exchange leaf water status of two pistachio species (*Pistasia 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* nad *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 glycil 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(*Pistasia mutica* nad *P.khinjuk*) in response to salinity. *Cahiers Option Mediterranean*, Vol.59:179-187, 2001.
- 6- Ranjbarfordoei 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*. *Photosynthetica*40(2)165-169, 2002.
- 7- Ranjbarfordoei 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- Ranjbarfordoei A.: Using phototemII chlorophyll fluorescence to study photosynthetic activities in sweet almond. International Society for Horticultural Science, 2006.
- 9- Ranjbarfordoei 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- Ranjbarfordoei A., Samson R., and Van Damme P., Zamani G. Phenological analysis of forage quality in *Astragalus effuses*. Indian J. Crop Science 4 (1-2): 137-140, 2009.
- 11- Ranjbarfordoei 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., Ranjbarfordoei A. Protein electrophoretic profiles and physiochemical indicators of salinity tolerance in sorghum (*Sorghum bicolor* L.). African journal of Biotechnology, 10(14): 2683-2697, 2011.
- 13- Ranjbarfordoei 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., Ranjbarforoei, 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., Ranjbarforoei, A. 2013. Vegetation types and rangeland species nutritional values and forage quality indicators at various phenological 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., Ranjbarfordoei 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-Fordoie, 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 Fardoei, 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- Ranjbarfardoei 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, Seiiid 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 Hydrosiences 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*, Under press
- 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.

3-2- Papers published in Persian journals

- 1- Mousavi S.H., Vali A., Mohaiieri M., Ranjbar A. (2013) Monitoring of desertification condition in Haj Ali-Gholi desert (1987-2000). Quantitative geomorphological research, 4:
- 2- 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):
- 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 *Nitraria 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 Novakooch semiarid forests using remote sensing. Journal of desert ecosystem engineering, 4(9): 57-70.
- 8- Ranjbar 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 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.

- 12- Ranjbar A., Panahi F. (2015) Effect of alkalinity stress on chlorophyll content, carotenoids, total soluble sugars and growth parameters in *Nitraria schoberi* plants. Journal of Natural Resources and sustainable development.
- 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.
- 14- Ranjbar A., Sadatinejad S.J. (2015). Identification of drought and salinity stresses using chlorophyll fluorescence parameters in *pistacia mutica* plants. Journal of Ecohydrology, 2(3): 253-260.
- 15- Ranjbar A. (2015) 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.
- 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): 129-141.
- 17- Soleimani Sardo M., Ranjbar A., Mousavi S.H. (2016) Assessment of desertification risk in Jazmourian area with emphasize on geology and geomorphology. Journal of desert ecosystem engineering, 5(10): 109-121.
- 18- Mousavi S.H., Vali A., Ranjbar (2016) climatological modeling of desertification events in Haj-Ali-Gholi desert area. Iranian journal of range and desert researches, 23(3): 499-515.
- 19- Mousavi S.A., Ranjbar A., Sadatinejad s.J. (2016) Modeling of soil erodibility in Khor-Biabanak region using remote sensing indices. Journal of Desert Ecosystem Engineering, 5(13): 67-80.
- 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.
- 21- Ranjbar A., Mousavi S.H., Sharifian-Arani S.M. (2017) Assessment of suitable lands for tourism village. Journal of Tourism and development. 6(11): 169-189.
- 22- Heydarnejad S., Ranjbar A., Mousavi S.H., Mirzaei R. (2017) Assessment of ecoregions' sensitivity to desertification in frame of life cycle assessment in Lorestan province, Iran. Journal of RS and GIS for Natural Resources, 8(1): 19-34.
- 23- Mousavi S.A., Mousavi S.H., Ranjbar A., Sadatinejad s.J. (2017). Spatial distribution of factor affecting soil erodibility in Khor-biabanak region. Journal of Ecohydrology, 4(2): 561-571.

- 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.
- 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.
- 26- Ranjbar A. (2017) Effects of UV-B radiation and cadmium on some echophysiological characteristics in lettuce. Journal of plant researches, 30(4): 978-989.
- 27- Mahdavi M.J. Ranjbar A., Zandi Esfahan A., Dehghani R. (2017) Determination of ptential in hallopyytes as source of oils. Iranian journal of range and desert researches, 24(4): 881-890.
- 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.
- 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
- 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
- 31- Mousavi S.H., Ranjbar A., Sharifian-Arani S. (2018) Assessment of different scenarios for establishment of salt hotel and Safari park 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.
- 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.
- 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.
- 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):

- 35- Sohrabi T., Ranjbar A. Vali A. Mousavi S.H. 2019. Statistical modeling of dust storms using Poisson regression model in Isfahan Province. *Iranian journal of Range and Desert Research*, 26(3): 421-430.
- 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.
- 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.
- 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):
- 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.

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 Méditerranéennes; 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.
- 7- A. Mousvi, A., Rnjbar, H. Barabadi.: 2014. Zoning of most important indices of soil quality, the possibility of biological development plan, desert region, and prevent of soil erosion. (Case study: Hamoon, etland).
- 8- Ghorbni M., A., Rnjbar, Panahi F.: 2014. Investigation of salt stress effects on relative water content and chlorophyll content in *Nitrria schoberi*, International conference environmental challenges and dendrology held in institute of Caspian ecosystems, Sari agricultural sciences and natural resources university, Sari, Iran, 14-15 May.
- 9- Nasiri M., Ranjbar A., Bahreininejad B., Deghni R.: 2014. Changes in chlorophyll index and relative water content of leaves of meadowsage (*Salvia virgate* L.) affected by water stress. International conference environmental challenges and dendrology held in institute of Caspian ecosystems, Sari agricultural sciences and natural resources university, Sari, Iran, 14-15 May.
- 10- A. Mousvi, A., Ranjbr A., H. Barabadi.: 2014. Relationships between soil salinity index with geological information's: case study (zone of Poshttaveh). International conference environmental challenges and dendrology held in institute of Caspian ecosystems, Sari agricultural sciences and natural resources university, Sari, Iran, 14-15 May.
- 11- Ranjbar A., Heydarnejad S., Zand Esfhan E. (2017) Effect of atmospheric dust deposition on leaf chlorophyll fluorescence parameters of cow- tail shrubs (*Smirnovia iranica*): A case study (Kashan region), Iran. The first International and the Second National conference on Environment Agriculture and Food security, University of Jiroft, Jiroft, Iran, 28-29 Feb. 2017.
- 12- Ranjbar A., Heydarnejad S. (2018) Impact of aeolian dust accumulation on some biochemical parameters of cow-tail shrubs (*Smirnovia iraiica*) leaves in the desert regions of Kashan, Iran. The 2 international conferences on dust April, 25-27, Ilam University, Iran.
- 13- Ranjbar- A., Heydarnejad S. (2018) Assessment of dust accumulation on chlorophyll and carotenoid content in *Halloxllon aphyllum* Bunge. The 2 international conferences on dust April, 25-27, Ilam University, Iran.
- 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.
- 15- Najafi N., Ranjbar-Fordoei A. (2019) Assessment of identification and monitoring of dust storms in Iran. Dust storms in South Western Asia, April, 23-25th, University of Zabol, Iran

- 16- Arast M., Ranjbar A. Mousavi S.H., Abdollahi K. (2019) Determination of soil moisture content using vegetation and thermal indices based on precipitation role. The 2th national conference on management of natural resources, focusing on water, flood and environment October, 14, Gonbad Kavous University.
- 17- Arast M., Ranjbar A. Mousavi S.H., Abdollahi K. (2019) Assessment of vegetation changes, temperature and soil moisture using remote sensing indices. The 2th national conference on management of natural resources, focusing on water, flood and environment October, 14, Gonbad Kavuos University.
- 18- Arast M., Ranjbar A. Mousavi S.H., Abdollahi K. (2019) Assessment of actual evapotranspiration using remote sensing. The 2th national conference on management of natural resources, focusing on water, flood and environment October, 14, Gonbad Kavuos University.
- 19- Ranjbar A. Effect of salinity stress on leaf water status in almond. The 4th Iranian horticulture congress. November 17, 2005. Iran, Tehran.
- 20- Ranjbar A., Comparison function between almond and walnut plants under water deficient conditions regarding ecophysiological parameters. The first Zonal conference on optimum water utilization in Karoon and Zayandeh-Rood catchments, (challenges and opportunities). September 17, 2006.
- 21- Payranj J, Ranjbar A., Estimation of range lands vegetation cover using IRS data in steppe areas. A case study: Karsanak Rangelands, The 5th national conference on new ideas in agriculture. February 27, 2010, Kouraskan Azad-University, Isfahan, Iran.
- 22- Ranjbar A. Relative water content in Sorghum plants under salinity stress. The 6th conference of agriculture and natural resources, the young researchers club.
- 23- Sharafi M. Ranjbar A., 2011. Impact of different cobalt concentration on macronutrient elements in stem and roots of pinto bean (Khomein variety). The 1th conference on agricultural development in north-west provinces. November 11, University of Payame-Noor, Meshkinshahr, Iran.
- 24- Sharafi M. Ranjbar A., determination of tolerance and threshold harmful in Pinto beans; pigments under cobalt stress. The 1th national conference on new, technologies in agriculture, September 19-21, 2011. University of Zanjan, Zanjan, Iran

- 25- Shirani B., Ranjbar A., assessment of phytoremediation potential of lead by vegetation for sustainable agriculture. National conference on strategies to access sustainable agriculture. June 15-17, 2011. University of Payame-nooer, Ahvaz, Iran.
- 26- Shokr-gozaar M. Ranjbar A., Assessment effects of bio-fertilizers on nutrient elements in cotton agriculture. 12th congress of Iranian soil sciences and land sustainable management. 12-14 October, 2011. University of Tabriz, Tabriz, Iran.
- 27- Borzooeian A., Ranjbar A. 2011. Assessment of mixed cultivation of pea and safflower as a sustainable agricultural system on efficiency of phosphorous absorption in alkaline soils. 12th congress of Iranian soil sciences and land sustainable management. 12-14 October, 2011. University of Tabriz, Tabriz, Iran.
- 28- Najmavari S., Ranjbar A. 2011. Weed management in organic agriculture as component of farm management. Opportunity Methods for Sustainable *Agriculture*. June 15-17, 2011. University of Payame-nooer, Ahvaz, Iran.
- 29- Nadali H., Ranjbar A., 2011. International rules and disciplines in to control of disease in sustainable agriculture. National conference on strategies to access sustainable agriculture. University of Payame-nooer, Ahvaz, Iran.
- 30- Ghojavand A., Ranjbar A., 2011. Using nitrification deterrents for increasing of fertilizer utilization and safe food production. Nation conference on organic crops.
- 31- Ranjbar A., Deghani Bodgoli R., Heydarnejad S. 2013. Ions accumulation and photosynthetic pigment contents in almond leaves against salinity stress. The first national congress on salinity stress in plants & developing strategies for saline agriculture, 12-13 September, 2013, Azarbaijan Shahid Madani University.
- 32- Heydarnejad S., Ranjbar A., Impact of salinity stress on some biochemical and morphological properties of *Seilitzia rosmarinus* plants. The first national congress on salinity stress in plants & developing strategies for saline agriculture, 12-13 September, 201. Azarbaijan Shahid Madani University.
- 33- Ranjbar A., Panahi F. Study effects of water irrigation PH in *Nitraria schoberi* plants. The first national congress on salinity stress in plants & developing strategies for saline agriculture, 12-13 September, 2013, Azarbaijan Shahid Madani University.
- 34- Heydarnejad S., Ranjbar A., Study of salinity tolerance in *Seilitzia rosmarinus* in order to saline soil remediation. October 23, 2012. The 1th national conference on solutions to access sustainable development in Agriculture, Natural resources and environment sectors.

- 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- Pirmohammadi 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.
- 37- Nasiri-dehsorhki M., Ranjbar A., Bahreininejad B., Dehghani-Bidgoli R. 2013, Impact of water stress on morphologic parameters of *Salvia virgate*. The first national conference on irrigation and water utilization, November 18, Mashad, Iran.
- 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 hydrostructure. 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 *Seidlizia 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
- 46- Heydarnejad S., Ranjbar A. Statistical analysis of dust events in Lorestan Province (2001-2010). The 1th international conference on dust. March 6-8, 2005. University of Shahid Chamran, Ahvaz, Iran
- 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
- 49- Ranjbar A., Heydarnejad S., Veisi V. Path tracing of dust in west of Kermanshah province. The 1th international conference on dust. March 6-8, 2005. University of Shahid Chamran, Ahvaz, Iran
- 50- Solemani Sardo M., Ranjbar A., Silakhouri S. Investigation of vegetation cover changes in Jiroft plane using remote sensing. The first international conference on agriculture, environment and food security. 2017, University of Jiroft, Jiroft, Iran
- 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

4- Research interests

4-1 Desert dynamics comprising of physical (e.g. wind erosion) and biological (e.g. vegetation change detection)

4-2 Water efficiency, Ecophysiological and ecohydrological studies of arid regions, with emphasizing on the motto "*more crop per drop*"

5- Managerial records

5-1 Head of desert combating department in city of

5-2 Head of natural resources department (Shahrekord University)

5-3 Dean of agriculture faculty (Shahrekord University)

5-4 Cultural and student deputy (Shahrekord University)

5-5 Student deputy (Shahrekord University)

5-6 Dean of natural resources faculty (University of Kashan)

5-7 Research deputy of natural resources faculty (University of Kashan)

5-8 Editors In Chief for the journal of desert ecosystem engineering (University of Kashan)