

Curriculum Vitae (C. V.)

• Personal Data

Mohammad Jafar Malakouti
Born on Dec. 12, 1947, Marand, Iran.
Married since 1972 with two children.

• Education

Ph.D. in Soil Sci., University of Nebraska, USA, 1977.
M.Sc. in Soil Sci., University of Tehran, Iran, 1973.
B.Sc. in Soil and Water Sci., University of Ahwaz, Iran, 1970.

• Language

Persian, Turkish, and English

• Experiences:

2000- Present: Member of Council, Farmers' Union (NGO) and Honorary Consultant to the Fertilizer Producers Association in Iran (NGO), Tehran, Iran.
1995 to 2011: Professor, Plant Nutrition, Soil Fertility and Fertilizers and Head of Soil Sci. Dept., Tarbiat Modares University (Graduate School).
1995 to 2006 Professor and Director General, Soil and Water Research Institute.
2001 to 2010: Executive Committee Member, International Plant Nutrition Society.
1988 to 2011: Head of Soil Sci. Dept., Tarbiat Modares University (Graduate School).
1996 to 2001: Advisor to the Minister of Agriculture.
1996 to 2005: Member, High Council of Policy Making on the Development of Biological Products, Optimum Utilization of Chemical Fertilizers and Pesticides.
1995 to 2005: Member, High Council for Water Commission, Ministry of Energy.
1994 to 2003: Board Member, Iranian Soil Sci. Society
1988 to 1995: Associate Professor, Soil Sci. Dept. (Plant Nutrition, Soil Fertility).
1985 to 1988: Associate Professor, Soil Sci. (Soil Fertility, Plant Nutrition ...), and Director General, Evaluation Office for Foreign Documents and University Degrees, Ministry of Sci. and Higher Education.
1982 to 1985: Assistant prof., Soil Sci. and Vice Chancellor, Tarbiat Modares Univ.
1980 to 1981: Assistant Prof. and Dean of Zanjan Agricultural College, Zanjan, Iran.
1977 to 1981: Assistant Professor, Soil Sci., Zanjan Agricultural College, Zanjan.
1975 to 1977: Ph.D. Student, Department of Agronomy, University of Nebraska, USA.

Awards (Honorary Degrees)

1. **Distinguished university lecturer award.** The prize was awarded by the Chancellor of the Tarbiat Modares University, 1992.
2. **Distinguished university book author award.** The prize was awarded by the Minister of Culture and Higher Education, 1993.
3. **Distinguished paper on the occasion of World Food Day "Food Security".** The prize was awarded by the FAO representative in Iran, 1995 ([Full paper](#)).
4. **Distinguished university lecturer of the year.** The prize was awarded by the President of the Islamic Republic of Iran, 1996.
5. **Distinctive Services Award (3rd. order).** The prize was awarded by the President of the Islamic Republic of Iran, 1997.
6. **Distinguished researcher of the year.** The prize was awarded by the Minister of Agriculture, 1998.
7. **Distinguished Director General** (Soil and Water Research Institute was the best Institute over the whole country for its great achievements and untiring endeavors) **of the year.** 1999.
8. **Nominee for the World Food Prize** which is recommended by the Minister of Agriculture to the World Food Prize Committee in Ames-Iowa in 1999.
9. **Nominee for the International Fertilizer Award** which is recommended by the Chairman and Managing Director, Petrochemical Commercial Company (PCC) and supported by Norsk Hydro ASA-Norway, The Arab Potash Company-Jordan, Groupe Chemique-Tunisia, and Sabic-Saudi Arabia, 2001.
10. **Distinguished researcher in an enhancement of human health** in Razi Medical Festival, Ministry of Health. The prize was awarded by the President of the Islamic Republic of Iran in November, 2001.
11. **Distinguished researcher and extentioner for invaluable services rendered** toward the development of the balanced fertilization including the use of micronutrient fertilizers in agriculture sector from the Iranian Farmers' Union. The prize was awarded by the President of the Islamic Republic of Iran in January, 2003.
12. **Winner of 18th International Kharazmi Festival Prize** for improving micronutrient deficiencies especially zinc in soils, agricultural products, domestic animals, and human beings. The prize was awarded by the President of the Islamic Republic of Iran in Febuary, 2005.
13. **Winner of the Annual SOPIB prize** for dramatic change in the country's NPK+S+Micronutrients ratio towards sustainable agriculture. The prize was awarded by the President of the Board Directores of the Sulphate of Potash Information in World Fertilizer Conference (TFI). Torento, Canada. Sept. 2005.
14. **Winner of TWAS Prize in Agricultural Sci. from Third World Academy of Sci.** (First Iranian Scientist who has been won this Prize). The prize was awarded by the President of the Egypt in Alexanderia in November 2005.
15. **Distinguished Soil Scientist in Soil Fertility and Plant Nutrition Award.** The prize was awarded by the President of Soil Sci. Society of Iran, 2007, Tehran, Iran.
16. Selected as a **Prominent Personality** in Agricultural Sci. (Soil Sci.) by the 7th Commemoration of the Iranian TV Biannual Panel of Experts Meeting in November 2008. Tehran, Iran ([Short Persian CV](#))([Short English CV](#)) ([Oral Presentation](#)).
17. **Winner of best award in Agricultural Sci. from Third International Innovation**

and Economic Justice Symposium. The prize was awarded by the President of the Symposium in November 2010. Tehran, Iran.

• Publications in English

A. Journal Papers

1. **Malakouti, M. J.**, J. Stubbendick, and D. Lewis (1978). Effects of grasses and soil properties on wind erosion in sand blowouts, *J. Range Management*, 31: 417-420.
2. **Malakouti, M. J.** and G. Goh (1992). Preliminary nitrogen, phosphorus, potassium, calcium and magnesium DRIS norms and indices for apple orchards in Canterbury, New Zealand. *Commun. Soil Sci. & Plant Anal.*, 23: 1371-1385 ([Abstract](#)).
3. **Malakouti, M. J.** (1992). Diagnosis of nutrient requirements of corn by DRIS method. *Commun. Soil Sci. & Plant Anal.*, 23: 2687-2698 ([Abstract](#)).
4. Ramazanpour, H., M. A. Bahmaneyar, M. H. Roozitalab, and **M. J. Malakouti** (1992). Effects of continuous rice cultivation on the morphology and mineralogy of paddy soils in northern Iran. *J. Agr. Sci. Tech.*, 1: 53-65.
5. Bahmaneyar, M. A., **M. J. Malakouti**, and M. H. Roozitalab (1993). Effects of continuous rice cultivation on the physicochemical properties of the paddy soils in northern Iran. *Commun. Soil Sci. & Plant Anal.*, 24: 93-107.
6. Navabzadeh, M. and **M. J. Malakouti** (1993). Development of DRIS norms for Potato in the calcareous soils of Iran. *J. of Plant Nutrition*, 16: 1409-1416 ([Abstract](#)).
7. Soltanpour, P. N., **M. J. Malakouti**, and A. H. Rounaghi (1995). Comparison of diagnosis and recommendation integrated system (DRIS) and nutrient sufficiency range (NSR) for corn. *Soil Sci. Soc. Amer. J.*, 59: 133-139 ([Abstract](#)).
8. Izadyar, A. B., **M. J. Malakouti**, A. R. Talaei, and E. Fallahi (1996). Effect of foliar application of nitrogen and sulfur during flower-bud formation on alternate-bearing apple trees. *Hort. Sci.*, 32 (3).
9. Izadyar, A. B., **M. J. Malakouti**, A. R. Talaei, and E. Fallahi (1998). Biennial bearing and protein content of apples as influenced by high concentrations of foliar nitrogen and sulfur. *J. of Plant Nutrition*, 21: 649-653 ([Abstract](#)).
10. **Malakouti, M. J.**, S. J. Tabatabaei, A. A. Shahabi, and E. Fallahi (1999). Effects of calcium chloride on apple fruit quality in the calcareous soils of Iran. *J. of Plant Nutrition*, 22: 1451-1456 ([Abstract](#)).
11. Rezaei, H. and **M. J. Malakouti** (2001). Critical levels of iron, zinc, and boron for cotton in Varamin region. *J. Agric. Sci. Technol.*, 3: 147-153.
12. **Malakouti, M. J.** (20001). Study on the effects of balanced fertilization (zinc) on improving apple yield, quality, and reducing browning incidence. Proceedings of the fourth International Symposium on Mineral Nutrition of Deciduous Fruit Crops. *Acta Horticulture*, 564: 153-158.
13. **Malakouti, M. J.** and M. Afghami (2001). Foliar application of calcium chloride for improving apple quality and pesticides use reduction. Proceedings of the fourth International Symposium on Mineral Nutrition of Deciduous Fruit Crops. *Acta Horticulture*, Nr. 564: 349-355.
14. Tehrani, M. M. and **M. J. Malakouti**, 2001. Evaluation of pre-side dress soil nitrate test for sugar beet in Iran. *J. of the Indian Society of Soil Sci.*, 49: 445-448.
15. Dilmaghani, M. R., **M. J. Malakouti**, G. H. Neilsen and E. Fallahi (2004). The interactive

- effects of potassium and calcium on K/Ca ratio and its consequences to apple fruit quality on calcareous soils, *Iran. J. of Plant Nutrition*, 27:1149-1162 ([Full text](#)).
16. Shahabi A., **M. J. Malakouti** and E. Fallahi (2005). Effects of bicarbonate content of irrigation water on nutritional disorders of some apple varieties. *J. of Plant Nutrition*, 28: 1663-1678 ([Full text](#)).
 17. Ghadiri, H., I. Dordipour, M. Bybordi, M. J. Malakouti and H. Siadat (2006). Potential use of Caspian Sea water for supplementary irrigation in Northern Iran. *Agricultural Water Management*, 79: 209-224 ([Full text](#)).
 18. Mozaffari, V. and **M. J. Malakouti** (2006). An investigation of some causes of die-back disorder of pistachio trees and its control through balanced fertilization in Iran. Proceedings of the fourth International Symposium on Pistachio and Almonds. Pp. 247-252. In: A. Javanshah, E. Facelli and M. Wirthensohn (Eds.). *Acta Horticulturae* Number 726, ISHS. Tehran, Iran ([Full text](#)).
 19. **Malakouti, M. J.** (2006). Increasing the yield and quality of Pistachio nuts by applying balanced amounts of fertilizers. Proceedings of the fourth International Symposium on Pistachio and Almonds. Pp. 293-297. In: A. Javanshah, E. Facelli and M. Wirthensohn (Eds.). *Acta Horticulturae* Number 726, ISHS. Tehran, Iran ([Full text](#)).
 20. Bybordi, A. and **M. J. Malakouti** (2006). Effects of foliar applications of nitrogen, boron and zinc on fruit setting and quality of almonds. Proceedings of the fourth International Symposium on Pistachio and Almonds. Pp. 351-357. In: A. Javanshah, E. Facelli and M. Wirthensohn (Eds.). *Acta Horticulturae* Number 726, ISHS. Tehran, Iran ([Full text](#)).
 21. Kiani, Sh. and **M. J. Malakouti** (2006). Effects of the 2-year study on the localized placement of fertilizers on the yield of almond. Proceedings of the fourth International Symposium on Pistachio and Almonds. Pp. 475-479. In: A. Javanshah, E. Facelli and M. Wirthensohn (Eds.). *Acta Horticulturae* Number 726, ISHS. Tehran, Iran ([Full text](#)).
 22. Keshavarz, P., **M. J. Malakouti**, N. Karimian, and A. Fotovvat (2006). The effects of salinity on extractability and chemical fractions of zinc in selected calcareous soils of Iran. *J. Agr. Sci. Tech.*, 8: 181-189 (Full paper).
 23. Miransari, M., P. Balakrishnan, D. Smith, A. F. Mackenzie, H. A. Bahrami, **M. J. Malakouti** and F. Rejali (2006). Overcoming the stressful effect of low pH on soybean root hair curling using lipochitooligosaccharides. *Commun. Soil Sci. & Plant Anal.*, 37:1103-1110 ([Full text](#)).
 24. Rezaei, H., N. A. Khosgholgh Sima, **M. J. Malakouti** and M. Pessarakli (2006). Salt tolerance of canola in relation to accumulation and xylem transportation of cations. *J. of Plant Nutrition*, 29:1903-1917 ([Full text](#)).
 25. Miransari, M., H. A. Bahrami, F. Rejali, **M. J. Malakouti**, and H. Torabi (2007). Using arbuscular mycorrhiza to reduce the stressful effects of soil compaction on corn (*Zea mays* L.) growth. *Soil Biology & Biochemistry*, 39:2014-2026 ([Full text](#)).
 26. **Malakouti, M. J.** (2007). Zinc is a neglected element in the life cycle of plants: A review. *Middle Eastern and Russian J. of Plant Sci. and Biotech.*, 1: 1-12 ([Full text](#)).
 27. Heng, T. N. Toomanian, H. I. Reuter and **M. J. Malakouti** (2007). Methods to interpolate soil categorical variables from profile observations: Lessons from Iran. *Geoderma*, 140: 417-427.
 28. Nouri, O., J. Kambozia, **M. J. Malakouti** and M. Kafi (2007). Effects of nitrogen and biological materials on decomposition of thatch in sports turfgrass Pp. 437-442. In: J. C. Stier,

- L. Han and D. Li (Eds.). Proceeding of the 2nd International Conference on Turfgrass Sci. and Management for Sports Fields. Acta Horticulturae. Bieijing, China ([Full text](#)).
29. **Malakouti, M. J.** (2008). The effect of micronutrients in ensuring efficient use of macronutrients. Turk J. Agric. For., 32: 215-220 ([Full text](#)).
 30. **Malakouti, M. J.**, A. Bybordi, M. Lotfollahi, A. A. Shahabi, K. Siavoshi, R. Vakil, J. Ghaderi, J. Shahabifar, A. Majidi, A. Jafarnejadi, F. Dehghani, M. H. Keshavarz, M. Gassemzadeh, R. Ghanbarpouri, M. Dashadi, M. Babaakbari and N. Zainalifard (2008). Comparison of complete and sulphur coated urea fertilizers with pre-plant urea in increasing grain yield and nitrogen use efficiency in wheat. J. Agr. Sci. Tech., 10: 173-183 ([Full text](#)).
 31. Arzani, K., H. Khoshghalb, **M. J. Malakouti** and M. Barzegar (2008). Postharvest fruit physicochemical changes and properties of Asian (*Pyrus serotina* Rehd.) and European (*Pyrus communis* L.) pear cultivars. Korean Society for Horticultural Sci., 49:244-252 ([Full text](#)).
 32. AghaAlikhani, M., M. Gholamhosseini and **M. J. Malakouti** (2008). Nitrogen and zeolite application effect on the yield of canola, nitrogen leaching loss and nitrogen efficiency in a sandy soil. Italian J. of Agronomy /Riv. Agron., 3 Suppl.: 169-170.
 33. Goli, E., M. H. Rouzitalab and **M. J. Malakouti** (2008). Potassium availability as related to clay mineralogy and rates of potassium application. Commun. Soil Sci. & Plant Anal., 39:2721-2733 ([Full text](#)).
 34. Esmaili, E., S. A. Kapourchal, **M. J. Malakouti** and M. Homaei (2008). Extractive effect of salinity and two nitrogen fertilizers on growth and composition of sorghum. Plant Soil Environ., 54: 537-546 ([Full text](#)).
 35. Tajbakhsh, J., M. A. Abdoli, E. Mohammadi Goltappeh, L. Alahdai and **M. J. Malakouti** (2008). Recycling of spent mushroom compost using earthworms *Eisenia foetida* and *E. anderi*. Environmentalists, 28:476-482 ([Full text](#)).
 36. Tajbakhsh, J., M. A. Abdoli, E. Mohammadi Goltappeh, L. Alahdai and **M. J. Malakouti** (2008). Trend of physico-chemical properties change in recycling spent mushroom compost through vermicomposting by epigeic earthworms *Eisenia foetida* and *E. anderi*. J. of Agricultural Tech., 4:185-198 ([Full paper](#)).
 37. Arzani, K., H. Khoshghalb, **M. J. Malakouti** and M. Barzegar (2008). Polyphenoloxidase activity, polyphenol and ascorbic acid concentrations and internal browning in Asian pear (*Pyrus serotina* Rehd.) fruit during storage and in relation to time of harvest. European J. of Horticultural Sci., 74: 61-65 ([Full text](#)).
 38. Miransari, M., H. A. Bahrami, F. Rejali and **M. J. Malakouti** (2009). Effects of soil compaction and arbuscular mycorrhiza on corn (*Zea mays* L.) nutrients uptake. Soil & Tillage Research, 103: 282-290 ([Full paper](#)).
 39. Miransari, M., H. A. Bahrami, F. Rejali and **M. J. Malakouti** (2009). Effects of arbuscular mycorrhiza, soil sterilization, and soil compaction on wheat (*Triticum aestivum* L.) nutrients uptake. Soil & Tillage Research, 104: 48-55 ([Full paper](#)).
 40. Khademi, Z., D. L. Jones, **M. J. Malakouti**, F. Asadi and M. Ardebili (2009). Organic acid mediated nutrient extraction efficiency in three calcareous soils. Australian J. of Soil Research, 47: 213-220 ([Full paper](#)).
 41. Gheibi, M. N., **M. J. Malakouti**, B. Kholdbarin and S. Taymouri (2009). Significance of nickel supply for growth and chlorophyll content of wheat supplied with urea and ammonium nitrate. J. of Plant Nutrition, 32: 1440-1450 ([Full text](#)).

42. Sepehr E., **M. J. Malakouti**, B. Kholdbarin, A. Samadi and N. Karimian (2009). Genotypic variation in P efficiency of selected Iranian cereals in greenhouse experiment. *International J. of Plant Production*, 3:17-28 ([Full text](#)).
43. Arzani, K., H. Khoshghalb, **M. J. Malakouti** and M. Barzegar (2009). Effect of preharvest and postharvest factors on the quality and internal browning of Asian pear (*Pyrus serotina* Rehd.). *Acta Horticulture* ([Full text](#)).
44. Khademi, Z., D. L. Jones, **M. J. Malakouti** and F. Asadi (2010). Organic acids differ in enhancing P uptake by wheat—effects of rhizosphere concentration and counterion. *Plant and Soil*, 334:151-159 ([Full text](#)).
45. **Malakouti, M. J.** (2010). Why our agricultural products facing zinc deficiency? Proceedings of the 7th International Symposium on Trace Elements in Human: New Perspectives. *Trace Elements and Electrolytes*, 27: 176-177 ([Abstracts](#)).
46. **Malakouti, M. J.** (2010). Relationship between balanced fertilization and healthy agricultural products (A review). *J. of Crop and Weed Ecophysiology*, 10: 11-16.
47. Majidi, A., R. Rahnemaie, A. Hassani and **M. J. Malakouti** (2010). Adsorption and desorption processes of boron in calcareous soils. *Chemosphere*, 80: 733-739 ([Full text](#)).
48. Goli, E., T. Heimstra, W. Van Riemsdijk, R. Rahnemaie and **M. J. Malakouti** (2010). Diffusion of neutral and ionic species in charged membranes: Boric acid, arsenite and water. *Anal. Chem.*, 82: 8438-8445 ([Full text](#)).
49. Rezaei, H., N. A. Khosgholgh Sima and **M. J. Malakouti** (2010). Growth response and ion distribution of two canola varieties to different potassium to sodium ratios. *J. of Desert*, 15: 103-109 ([Full text](#)).
50. Arzani, K., H. Khoshghalb, **M. J. Malakouti** and M. Barzegar (2011). Total oxalate-soluble pectin concentration in Asian pear (*Pyrus serotina* Rehd.) fruit in relation to ripening, storage and internal browning disorder. *J. Agr. Sci. Tech.*, 13: 611-626 ([Full text](#)).
51. Goli, E., R. Rahnemaie, T. Heimstra and **M. J. Malakouti** (2011). The interaction of boron (B) with Geothite: Experiments and CD-MUSIC modeling. *Chemosphere*, 82: 1475-1481 ([Full text](#)).
52. Nourzadeh, M., M.H. Mahdian, **M. J. Malakouti**. And K. Khavazi. (2011). Investigation and prediction spatial variability in chemical properties of agricultural soil using geostatistics. *Archives of Agronomy and Soil Science J.*, 1:1- 15. Online <http://www.informaworld.com>.
53. Gheibi, M. N., B. Kholdbarin, **M. J. Malakouti**, F. Ghanati, S. Taymouri and R. Sayyadi (2011). Effect of various nickel levels on growth and chlorophyll content of corn plants supplied with urea and ammonium nitrate. *International Journal of Food, Agriculture & Environment*, 9: 583-587. www.world-food.net ([Full text](#)).
54. Mahmoudi, M., R. Rahnemaie, S. Soufizadeh, **M. J. Malakouti** and A. Eshaghi (2011). Residual effect of Thiobencarb and Oxadiargyl on spinach and lettuce in rotation with rice. *J. Agr. Sci. Tech.*, 13: 785-794 ([Full text](#)).
55. Mahmoudi, M., R. Rahnemaie, S. Soufizadeh, **M. J. Malakouti** and A. Eshaghi (2011). Dissipation kinetics and Ad-desorption isotherms of Thiobencarb in paddy fields. *J. of Water and Soil*, 25: 485-497.
56. Mardoukhi, B., F. Rejali, G. Daei, M. R. Ardakani, **M. J. Malakouti** and M Miransari (2011). Arbuscular mycorrhizas enhance nutrient uptake in different wheat genotypes at at high salinity levels under field and greenhouse conditions. *C. R. Biologies J.*, 334: 564-571 ([Full text](#)).
57. Gholamhosseini, M., M. AghaAlikhani, **M. J. Malakouti** and J. Khodaei (2012). Influence of

- zeolite application on nitrogen efficiency and loss in canola production under sandy soils conditions. *Commun. Soil Sci. & Plant Anal.*, 43:1247-1262 ([Full text](#)).
58. Haghdar, A., **M. J. Malakouti**, A. Bybordi and A. Kalantari (2012). Study on spatial variation of some chemical characteristics of dominant soil series by using geostatistics in Iran: Case study of Heris region. *J. Agr. Sci. Tech.* 10: 977-982.
 59. Mahmoudi, M., R. Rahnemaie, A. Eshghi and **M. J. Malakouti** (2013). Kinetics of degradation and adsorption-desorption isotherms of thiobencarb and oxadiargyl in calcareous paddy fields. *Chemosphere*, 91: 1009-1017.
 60. Gaffariyan, M. H, **M. J. Malakouti**, M. R. Dadpour, P. Stroeve and M. Mahmoudi (2013). Effects of magnetite nanoparticles on soybean chlorophyll. *Environ. Sci. Technol.*, 47: 10645–10652.
 61. Aghamir, F., H. A. Bahrami, **M. J. Malakouti** and S. Eshghi (2015). Magnetized water effects on seed germination and seedling growth of corn (*Zea mays*) under saline conditions. *American J. of Life Science Researches*, 3: 184-195.
 62. Aghamir, F., H. A. Bahrami, **M. J. Malakouti**, S. Eshghi and F. Sharifi (2016). Seed germination and seedling growth of bean (*Phaseolus vulgaris*) as influenced by magnetized saline water. *Eurasian J. of Soil Sci.*, 5: 39-46.
 63. Nezami, S., **M. J. Malakouti**, A. Bahrami Samani and Ghannadi Marageh (2016). Effect of low molecular weight organic acids on the uptake of ²²⁶Ra by corn in a region of high natural radioactivity in Ramsar-Iran. *J. of Environmental Radioactivity*, 164: 145-150.
 64. Nezami, S., **M. J. Malakouti**, A. Bahrami Samani and Ghannadi Marageh (2017). The role of organic acids on ²²⁶Ra transfer factor in corn (Online paper). *J. of Radioanalytical and Nuclear Chemistry*:1-6. <http://link.springer.com/article/10.1007/s10967-017-5265-3>.
 65. Zare, A. A., A. H. Khoshgoftarmanesh, **M. J. Malakouti**, H. A. Bahrami and R. L. Chaney. (2018). Root uptake and shoot accumulation of cadmium by lettuce at various Cd:Zn ratios in nutrient solution. *Ecotoxicology and Environmental Safety*, 148: 441–446.
 66. Haftbaradaran, Sh., A. H. Khoshgoftarmanesh and **M. J. Malakouti**. 2018. Assessment, mapping, and management of health from nitrate accumulation in onion for Iranian population. *Ecotoxicology and Environmental Safety*. 161:777-784.
 67. Haftbaradaran, Sh., A. H. Khoshgoftarmanesh and **M. J. Malakouti**. 2018. Potential health impacts from different vegetable nitrate intake scenarios and providing strategies to manage the risk for Iranian population. *Environmental Science and Pollution. Research*, 25: 432-442.
 68. Shirinbayan, Sh., H. Khosravi and **M. J. Malakouti** (2019). Alleviation of drought stress in maize (*Zea mays*) by inoculation with *Azotobacter* strains isolated from semi-arid regions. *Applied Soil Ecology* (in press).
 69. Passandideh, M., **M. J. Malakouti**, K. Shahbazi and Z. Mohammadesmaeil (2019). Integrating phosphorus fertilizer recommendation and environmental risk index of soil total-P. *Communications in Soil Science & Plant Analysis* (in press).
 70. Qadri, J., **M. J. Malakouti**, K. Khavazi and M. H. Davoudi (2019). Determining critical level of sulfur and its effects on grain maize yield. *Journal of Maydica* (Submitted).

B. Papers Presented in the International Scientific and Professional Congregations

1. **Malakouti, M. J.** (1976). How sand hills move. Nebgiude. Nebraska University, Nebraska, USA.
2. Bahmaneyar, M. A. and **M. J. Malakouti** (1992). Determination of nutrient requirements of rice by DRIS method. Proceedings of the Nutrient Management for Sustained Productivity. Punjab Agricultural University, Ludhiana, India.
3. Ramazanpour, H., M. H. Roozitalab, and **M. J. Malakouti** (1992). Effect of continuous rice cultivation on the morphology and mineralogy of paddy soils in northern Iran. Proceedings of the Nutrient Management for Sustained Productivity. Punjab Agri. Univ., Ludhiana, India.
4. **Malakouti, M. J.** (1990). Diagnosis of diagnostic norms for corn on the calcareous soils of Iran. Proceedings of the Nutrient Management for Sustained Productivity. Punjab Agricultural University, Ludhiana, India.
5. **Malakouti, M. J.** and M. Y. Mirsolaymani (1993). Response of potato to potassium in calcareous soils of Iran. Proceedings of the Regional Symposium held in Tehran, Iran.
6. **Malakouti, M. J.** (1994). Potato response to potassium with respect to yield and quality in the five provinces of Iran. III ESA Congress, Terme, Padova, Italy.
7. **Malakouti, M. J.** (1995). Necessity for balanced fertilizer use in Iran, proceedings of APO-FFTC, Seminar on Appropriate Use of Fertilizers, Taiwan.
8. **Malakouti, M. J.** (1996). Nutrient balance and chemical fertilizer control in Iran. pp. 260-266. In: J. Ryan (Ed.). Accomplishments and future challenges in dryland soil fertility research in the Mediterranean area. Proceedings of the Soil Fertility Workshop, International Center for Agricultural Research in Dryland Areas. Aleppo, Syria.
9. **Malakouti, M. J.** and G. H. Aghaya (1996). Country report on fertilizer use pattern and policies in the Islamic Republic of Iran, Proceedings of the Regional Workshop on Fertilizer Subsidies and Price Policy, FADINAP-UNDP, Bali, Indonesia.
10. **Malakouti, M. J.** (1996). Necessity for changing fertilizer use patterns for sustainable agriculture in Iran, IFOAM Scientific Conference. Copenhagen, Denmark.
11. Tehrani, M. M. and **M. J. Malakouti** (1997). Effects of K and micro-nutrients on the increase of sugar contents of beets in Iran., Regional Workshop on Food Security and Balanced Fertilization, International Potash Institute(IPI), Ege University, Ezmir, Turkey.
12. **Malakouti, M. J.** (1997). Status of potassium in soils and crops and potassium recommendations and its use in Iran. Regional Workshop on Food Security and Balanced Fertilization, International Potash Institute (IPI), Ege University, Ezmir, Turkey.
13. **Malakouti, M. J.** (1997). Yield increase and fortification of wheat grains through the use of Fe-chelate in the calcareous soils of Iran. International Symposium on Iron Nutrition and Interactions in Plants, Stuttgart, Germany.
14. Samar, S. M. and **M. J. Malakouti** (1997). Increasing Fe-EDTA mobility in the calcareous soils of Iran by adding organic matter, International Symposium on Iron Nutrition and Interactions in Plants, Stuttgart, Germany.
15. Banaei, M. H., M. H. Mohammadi, and **M. J. Malakouti** (1997). Gypsiferous Soils of Iran: Classification, distribution and management. Workshop on management of gypsiferous soils, 12-14 August. Aleppo/Raqqqa, Syria.

16. Siadat, H., M. Bybordi, and **M. J. Malakouti** (1997). Salt-affected soils of Iran: A country Report, The Islamic Republic of Iran, International Symposium on sustainable of salt affected soils in the Arid Ecosystem. Cairo, Egypt.
17. Siadat, H., M. Bybordi, and **M. J. Malakouti** (1997). Salt-affected soils of Iran. SPUSH newsletter on sustainable productive use of salt affected habitats, FAO Vol. 3, No. 1 (11).
18. **Malakouti, M. J.** (1998). Study of the nitrate status of underground waters in the Caspian Sea region. Asian Conference on Water and Wastewater Management. Tehran, Iran.
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B. Papers Presented in the National Scientific and Professional Congregations:

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D. Patents List

1. Production of Thiobacillus Inoculant know-how. By SWRI and H. Besharati. Supervised by **M. J. Malakouti**, Director General (DG) of SWRI (2002)([Certificate-S-10](#)).
2. Production of Soybean Inoculant know-how. By SWRI and K. Khavazi. Supervised by **M. J. Malakouti**, Director General of SWRI (2003)([Certificate-S-5](#)).
3. Production of Bean Inoculant know-how. By SWRI, H. Asadi Rahmani and M. Afshari. Supervised by **M. J. Malakouti**, Director General of SWRI (2002)([Certificate-S-9](#)).
4. Production of Soybean Inoculant for warm climates know-how. By SWRI and K. Khavazi. Supervised by **M. J. Malakouti**, Director General of SWRI (2002)([Certificate-S-8](#)).
5. Production of Chickpea Inoculant know-how. By SWRI, A. Asgharzadeh, M. Afshari and H. Khosravi. Supervised by **M. J. Malakouti**, Director General of SWRI (2002)([Certificate-S-7](#)).
6. Production of Phosphate Solubilizing Microorganisms Inoculant know-how. By SWRI and National Scientific Research Center. Supervised by **M. J. Malakouti**, DG of SWRI (2003)([Certificate-S-12](#)).
7. Production of root enhancement material for olive seedlings know-how. By A. Asgharzadeh, H. Asadi Rahmani and S. M. Hosseini Mazinani. Supervised by **M. J. Malakouti**, Director General of SWRI (2004)([Certificate-S-13](#)).
8. Production of Plant Growth Promoting Rhizobia (PGPR) know-how. By SWRI, Tehran University and H. A. Alikhani. Supervised by **M. J. Malakouti**, DG of SWRI (2004) ([Certificate-S-2](#)).
9. Production of liquid humus fertilizer know-how. By SWRI and S. Samavat. Supervised by **M. J. Malakouti**, Director General of SWRI (2004)([Certificate-S-3](#)).
10. Production of Azophosphin inoculant know-how. By SWRI, H. Khosravi and A. Asgharzadeh. Supervised by **M. J. Malakouti**, DG of SWRI (2004)([Certificate-S-1](#)).
11. In vitro mass production of Arbuscular Mycorrhizal fungi (*Glomus intraradices*) know-how. By SWRI and F. Rejali. Supervised by **M. J. Malakouti**, DG of SWRI (2004) ([Certificate](#)).
12. Production of Granular Complete Fertilizer containing sulphur know-how. By B. Motasharehzadeh and M. Raei. Supervised by **M. J. Malakouti**, Director General of SWRI (2007)([Certificate](#)).
13. Production of Arbuscular Mycorrhizal fungi aimed at the reduction of the stressful effects of soil compaction in wheat know-how. By M. R. Miransari, H. A. Bahrami, F. Rejali, **M. J. Malakouti**, Tarbiat Modares University, and Soil and Water Research Institute (SWRI). Supervised by **M. J. Malakouti**, Director General of SWRI (2007)([Certificate-VAM](#)).
14. Production of Arbuscular Mycorrhizal fungi aimed at the reduction the stressful effects of soil compaction in corn know-how. By M. R. Miransari, H. A. Bahrami, F. Rejali, **M. J. Malakouti**-Tarbiat Modares University and Soil and Water Research Institute (SWRI). Supervised by **M. J. Malakouti**, Director General of SWRI (2007)([Certificate-VAM](#)).
15. Production of slow release fertilizer with urea by using zeolite. By M. Eslami, M. H. Davoudi and **M. J. Malakouti**-Tarbiat Modares University (2010)([Certificate](#)).

E. Final Reports of the Completed Projects

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12. The roles of magnesium, zinc, manganese, and iron on the yield and quality of sunflower. Agriculture High Commission, National Council for Scientific Research, Tehran. Co-authors: Researchers, Soil and Water Research Institute all over the country. (2003).
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- Co-authors: Khademi, Z., P. Mohajermilani, M. R. Balali, and M. S. Doroudi. (2003).
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29. Determination of the critical levels for potassium and phosphorus in corn. SWRI, Agricultural Research and Education Organiation, Ministry of Jihad-e-Agriculture. Tehran, Iran. Co-author: M. N. Gheibi. (2005).
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31. Determination of nutritional disorders in fruit trees and practical methods of balanced fertilization to improve the yield and quality in Iran. Report on Cooperative Research between Soil and Water Research Institute and Agriculture High Commission, National Council for Scientific Research. Co-authors: Researchers, Soil and Water Research Institute all over the country ([Full text](#)).
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33. The Necessity for producing potassium murate (MOP) and potassium sulphate (SOP) in Iran. SWRI, Agricultural Research and Education Organiation, Ministry of Jihad-e-Agriculture. Tehran, Iran. Co-authors: A. A. Shahnema and J. Sarghayni (2006).

F. Books

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2. Malakouti, M. J. (1991). Application of diagnosis and recommendation integrated system (DRIS) in the calcareous soils of Iran. Tarbiat Modares University. Publication No. 1042, Pp. 35. Tehran, Iran.
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5. **Malakouti, M. J.** and M. Nafici. (1995). Fertilization of dryland and irrigated soils (Translated). 2nd Ed. Tarbiat Modares University Publication No.1020. Pp. 342. Tehran, Iran.
6. **Malakouti, M. J.** and M. Homaei. (1995). Soil fertility in arid regions: Problems and Solutions. Tarbiat Modares University Publication No. 1022. Pp. 494. Tehran, Iran.
7. **Malakouti, M. J.** (1996). Relationship between sustainable agriculture and balanced fertilizer use in the calcareous soils of Iran. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture.

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 9. **Malakouti, M. J.** and S. J. Tabatabaei. (1997). Meeting plant nutrient requirement through foliar application. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Agricultural Publisher Center, Ministry of Agriculture. No.8. Pp. 76. Karaj, Iran,
 10. **Malakouti, M. J.** (1998). Diagnosis and recommendation integrated system (DRIS) an appropriate method for balanced fertilization on the calcareous soils of Iran. Third ed. (completely revised). Tarbiat Modares University Publication. Pp. 75. Tehran, Iran.
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 12. **Malakouti, M. J.** and M. H. Tehrani. (1999). Effects of micronutrients on the yield and quality of agricultural products: Micro-nutrients with macro-effects. Tarbiat Modares University Publication No.43. Pp. 299. Tehran, Iran.
 13. **Malakouti, M. J.** and M. Lotfollahi. (1999). The role of zinc on the improvement of the quality and yield of agricultural products and the enhancement of people's health: Zinc the neglected element. High Council for Appropriate Use of Pesticides and Chem. Fertilizers. Agricultural Publisher Center, Ministry of Agriculture. Pp. 194. Karaj, Iran.
 14. **Malakouti, M. J.** and B. Motasharezadeh. (1999). An importance of boron on the crop and fruit trees yield and quality: Problems and solutions. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Agricultural Publisher Center, Ministry of Agri., Pp. 114. Iran.
 15. **Malakouti, M. J.** (1999). Diagnosis and recommendation integrated system (DRIS) an appropriate method for balanced fertilization. Fourth ed. (completely revised). Tarbiat Modares University Publication. Pp. 131. Tehran, Iran.
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 17. **Malakouti, M. J.** and S. J. Tabatabaei. (2000). Necessity for the balanced fertilization of fruit trees in the calcareous soils of Iran. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Agricultural Publisher Center, Ministry of Agriculture. Pp. 242. Karaj, Iran.
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 19. **Malakouti, M. J.** (2000). Balanced nutrition of wheat: An approach toward self-sufficiency

- and enhancement of national health (A compilation of papers) (Ed.). High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Agricultural Publisher Center, Ministry of Agriculture. Pp. 544. Karaj, Iran.
20. Bybordi, M., A. Amirmokri, **M. J. Malakouti**, and M. Nafici. (2000). Production and optimized consumption of chemical fertilizers for sustainable agriculture. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Agricultural Publisher Center, Ministry of Agriculture. Pp. 282., Iran.
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