

## 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:

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| 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 Chimique-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 18<sup>th</sup> 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 7<sup>th</sup> 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 lipochitoooligosacharides. *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 2<sup>nd</sup> International Conference on Turfgrass Sci. and Management for Sports Fields*. *Acta Horticulturae*. Beijing, 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). Entractive 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 7<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives. Trace Elements and Electrolytes, 27: 176-177 ([Abstracts](#)).

46. 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](#)).

47. 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](#)).

48. 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](#)).

49. 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](#)).

50. 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](#)).

51. Nourzadeh, M., M. H. Mahdian, **M. J. Malakouti** and K. Khavazi (2011). Investigation and prediction spatial variability of chemical properties of agricultural soils using geostatistical. Archives of Agronomy and Soil Sci., 57: 1-15 ([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](http://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. **Malakouti M. J.**, Sh. Ladan and S. J. Tabatabaee (2013). Nitrate content in the edible parts of vegetables: Origin, safety, toxicity limits and the prevalence of cancer in Iran. Pp. 93-122. In: Sh. Umar, N.A. Anjum and N. A. Khan (Eds.). Nitrate in leafy vegetables: Toxicity and safety measures. I. K. International Publishing House Pvt. Ltd. New Delhi, India. 208 pp. ([Full text](#)).

60. Mahmoudi, M., R. Rahnemaie, A. Eshaghi and **M. J. Malakouti** (2013). Kinetics of degradation and adsorption-desorption isotherms of thiobencarb and oxadiargyl in calcareous paddy fields. Chemosphere, 91: 1009-1017 ([Full text](#)).

61. 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 ([Full text](#)).

62. Dehghani, F., R. Rahnemaie, **M. J. Malakouti** and S. Saadat (2014). Effects of salinity and calcium to magnesium ratio of irrigation water on I. Pistachio growth parameters and its ionic composition in a calcareous soil. Plant and Soil (Submitted).

63. Dehghani, F., R. Rahnemaie, **M. J. Malakouti** and S. Saadat (2014). Effects of salinity and calcium to magnesium ratio of irrigation water on 2. Pistachio growth and some of its physiological characteristics in a calcareous soil. Plant and Soil (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/Raqqa, 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.

19. **Malakouti, M. J.** (1998). Necessity for production and use of sulfur coated urea (SCU) for decreasing nitrate accumulation in drinkable water in the Caspian regions. The third Inter. Workshop on Tech. and Equipment of Compound Fertilizer, Zhengzhou, China.

20. **Malakouti, M. J.** and I. Kalantari (1998). Yield increase and fortification of wheat grains by compost, Fe-chelate, and  $\text{ZnSO}_4$  in the calcareous soils of Iran, 16th Soil Sci. Congress. Montpellier, France.

21. Lotfollahi, M., A. M. Alston, G. K. Mc Donald, and **M. J. Malakouti** (1998). The effect of split nitrogen application on GPC of wheat under different water regimes. 9th Australian Agronomy Conference, New South Wales, Australia.

22. **Malakouti, M. J.** (1998). The effect of different amounts of N- fertilizers on the nitrate accumulation in the edible parts of the vegetables. International Workshop on: Improved Crop Quality by Nutrient Management, Bornova. Izmir, Turkey.

23. Lotfollahi, M. and **M. J. Malakouti** (1998). The effects of N- fertilizers by foliar application



on wheat grain protein. International Workshop on: Improved Crop Quality by Nutrient Management, Bornova. Izmir, Turkey.

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## **B. Papers Presented in the National Scientific and Professional Congregations:**

1. Bahmaneyar, M. A. and **M. J. Malakouti** (1993). Determining the nutrient requirements of rice by DRIS method, Proceedings of the First Agronomy Symposium, Ferdousi University. Iran.
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  5. Hosseinpour, K. and **M. J. Malakouti** (1994). Potato response to potassium with respect to yield and quality in the five provinces of Iran. Proceedings of the First Agronomy Symposium, Ferdousi University. Mashad, Iran.
  6. Jafari, A. and **M. J. Malakouti** (1994). Leaching of nitrate from two different sources of N-fertilizers in corn cultivation. Proceedings of the Forth Soil Sci. Congress, Esfahan.
  7. Mashayekhi, H. H. and **M. J. Malakouti** (1994). Kinetics of potassium desorption in some calcareous soils by using EUF. Proceedings of the Fourth Soil Sci. Congress, Esfahan, Iran.
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  10. **Malakouti, M. J.** (1996). Relationship between nutrient concentration and disease resistance in crops. 25th Anniversary of the Plant Protection Seminar. Plant Protection Organization. IR.
  11. **Malakouti, M. J.** (1996). Balanced fertilization for better crop production. More than 50 keynote speeches were submitted in various scientific and agricultural expert gatherings in different provinces and seminars to the agricultural experts in 1996. Ministry of Agriculture. IR.
  12. Zareei, H., F. Behtash, and **M. J. Malakouti** (1996). Effects of different N-rates on the  $\text{NO}_3^-$  accumulation in the edible parts of lettuce, spinach, cabbage, and celery. Proceedings of the Fifth Soil Sci. Congress. Soil Sci. Society of Iran. Karaj, Iran.
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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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2. **Malakouti, M. J.** (1996). Study of nitrate accumulation in the ground waters of paddy soils in Gilan and Mazandaran provinces. Financed by the Agricultural Research, Extension, and Education Organization. Ministry of Agriculture.

3. **Malakouti, M. J.** (1997). The effect of different amounts of N-fertilizers on the nitrate accumulation in the edible parts of vegetables. Financed by the Agricultural Research, Extension, and Education Organization. Ministry of Agriculture.

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6. Application of mychorhizae (VAM) in Iranian agriculture is a green way for P-fertilizers reduction. Financed by the Soil and Water Research Institute. Ministry of Agriculture. (1998).

7. The role of zinc sulfate on the yield and quality, and in the reduction of phytic acid to zinc (PA/Zn) molar ratio in wheat grain and promotion of whole wheat bread consumption supported by Ministry of Health. (1999).

8. The sources and methods for abating nitrate and cadmium pollutants in the northern rice paddies. Financed by the Agricultural Research, Extension, and Education Organization. Ministry of Jihad-e-Agriculture. Tehran, Iran. (2002).

9. Achievmemnts on the manufacture and balanced use of bio-chemical fertilizers in Iran in the past five years. High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Co-authors: A. Asgharzadeh, K. Khavazi, H. Asadi Rahmani, Z. Khademi, and M. H. Davoudi. (2002).

10. Effects of rates and sources of potassium on field and horticultural crops in Iran. Cooperative Research Project of SWRI with Kali und Salz & SCPA. Co-authors: Researchers, Soil and Water Research Institute all over the country. (2002)([Full text](#))([Full text-2](#)).

11. Effects of rates and sources of potassium on agronomic and horticultural crops in Iran. Report on Cooperative Research between Soil and Water Research Institute and Kali und Salz/TC, Tehran, Iran. Co-authors: Researchers, Soil and Water Research Institute all over the country. (2002)([Full text](#)).

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).

13. Optimization of fertilizer recommendation for some strategic crops by means of computer: Wheat, barley, corn, sugar beet, potato, soybean, canola, cotton and sunflower by using computer model. Agriculture Commission, National Council for Scientific Research. Co-authors: Khademi, Z., P. Mohajermilani, M. R. Balali, and M. S. Doroudi. (2003).

14. Effects of K-fertilizers application on the yield and quality of different crops grown on calcareous soils of Iran. Report on Cooperative Research between Soil and Water Research Institute and Arab Potash Company (APC), Tehran, Iran. Co-authors: Researchers, Soil and Water Research Institute all over the country. (2004)([Full text-1](#))([Full text-2](#)).

15. Effects of sulphur on the yield and quality of different agronomic crops and orchards. Submitted to the Chairman and Managing Director, Petrochemical Commercial Company (PCC). Co-authors: Researchers, Soil and Water Research Institute all over the country. (2004).

16. The roles of micronutrients on the yield and quality of wheat and increasing their efficiency. Submitted to the Wheat Office, Agronomy Department, Ministry of Jihad-e-Agriculture. Co-authors: M. N. Gheibi and F. Moshiri and some other researchers of Soil and Water Research Institute. Tehran, Iran. (2004).

17. Fertilizer use by crops in Iran. Food and Agriculture Organization. Italy (2004)([Full text](#)).

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25. Determination of critical level of potassium in calcareous soils. SWRI, Agricultural Research and Education Organization, Ministry of Jihad-e-Agriculture. Tehran, Iran. Co-authors: Bybordi, A., S. J. Tabatabaei, K. Hashemimajd and A. Farajnia. (2005).

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- Davoudi, M. H., M. Kavousi, M. Valinejad, M. R. Ramazanpour, M. Mahmoudi, N. Saadati and M. Mohammadian. (2005).
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29. Determination of the critical levels for potassium and phosphorus in corn. SWRI, Agriculatural Research and Education Organiation, Ministry of Jihad-e-Agriculture. Tehran, Iran. Co-author: M. N. Gheibi. (2005).
30. Effects of rates and sources of potassium on agronomic and horticultural crops in Iran. Report on Cooperative Research between Soil and Water Research Institute and Internatinal Potash Institute (IPI), Tehran, Iran. Co-authors: Researchers, Soil and Water Research Institute all over the country. (2002)([Full text-1](#))([Full text-2](#)).
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](#)).
32. Determination of quality indicies and optimum levels of nutrients for fruits grown on the calcareous soils of Iran. Agriculture Commission, National Council for Scientific Research. Co-authors: Researchers, Soil and Water Research Institute all over the country (2005).
33. The Necessity for producing potassium murate (MOP) and potassium sulphate (SOP) in Iran. SWRI, Agriculatural Research and Education Organiation, Ministry of Jihad-e-Agriculture. Tehran, Iran. Co-authors: A. A. Shahnema and J. Sarghayni (2006).

## F. Books

1. **Malakouti, M. J.** and M. Nafici. (1988). Fertilization of dryland and irrigated soils (Transilated from the book of J. Hagin and B. Tucker). Tarbiat Modares University. Publication No. 1001, Pp.225. Tehran, Iran.
- 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.
2. **Malakouti, M. J.** and A. Riazi-Hamadani. (1992). Soil fertility and fertilizers (Translated), University Publication Center. Ministry of Culture and Higher Education. Pub. No. 598, Pp. 800.
3. **Malakouti, M. J.** (1993). Application of diagnosis and recommendation integrated system (DRIS) in the calcareous soils of Iran. Second ed., Tarbiat Modares University Publication, No. 1042, Pp. 43. Tehran, Iran.
4. **Malakouti, M. J.** and M. Nafici. (1995). Fertilization of dryland and irrigated soils (Translated). 2<sup>nd</sup> Ed. Tarbiat Modares University Publication No.1020. Pp. 342. Tehran, Iran.
5. **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.
6. **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. Agricultural Publisher Center, Ministry of Agriculture. Pp. 279. Karaj, Iran.
7. **Malakouti, M. J.** and M. N. Gheibi. (1997). Determination critical levels of macronutrients in the soils of Iran for field crops and orchards. 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. 73. Karaj, Iran.
  8. **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,
  9. **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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  11. **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.
  12. **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.
  13. **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.
  14. **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.
  15. **Malakouti, M. J.** (2000). Sustainable agriculture and yield increase through balanced fertilization. Second edition (completely revised). 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. 414. Iran.
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  17. **Malakouti, M. J.** and N. Gheibi. (2000). Determination of critical levels of nutrients in soil, plant, and fruit for the quality and yield improvements in strategic crops of Iran. Second ed. (completely revised). 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. 92. Karaj, Iran.

18. **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.

19. 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.

20. **Malakouti, M. J.** (2001). Diagnosis and recommendation integrated system (DRIS) an appropriate method for balanced fertilization. 5<sup>th</sup> ed. Tarbiat Modares University Publication. Pp. 131. Tehran, Iran.

21. **Malakouti, M. J.** and M. H. Tehrani. (2001). Effects of micronutrients on the yield and quality of agricultural products: Micronutrients with macro-effects. Second edition. Tarbiat Modares University Publication. Pp. 299. Tehran, Iran.

22. **Malakouti, M. J.** M. Nafici, and B. Motasharezadeh. (2001). National effort in production of fertilizers as a step toward self-sufficiency and sustainable agriculture (A compilation of papers)(Eds.). 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 Jihad-e-Agriculture. Pp. 450. Karaj, Iran.

23. **Malakouti, M. J.** and H. Rezaei. (2001). The roles of S, Ca, and Mg on the yield and quality of agricultural products. 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 Jihad-e-Agriculture. Pp. 181. Karaj, Iran.

24. **Malakouti, M. J.** and S. J. Tabatabaei. (2001). Innovative approaches to balanced nutrition of orchards: Higher yield-Better quality (A compilation of papers) (Eds.). High Council of Policy Making on the Development of Biological Products Application, Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Ministry of Jihad-e-Agriculture. Sana Publication Co. Pp. 633. Karaj, Iran ([Title and highlights](#)).

25. Khavazi K. and **M. J. Malakouti**. (2002). Necessity for the production of biofertilizers in Iran (A compilation of papers) (Eds.). 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 Jihad-e-Agriculture. Pp.589. Karaj, Iran.

26. **Malakouti, M. J.** and M. H. Davoudi. (2003). Zinc in agriculture: A forgotten element in the life cycle of plant, animal and human. Deputy, Horticultural Affairs, Ministry of Jihad-e-Agriculture. Sana Publication Co. Pp.209. Tehran, Iran.

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## PhD Dissertations

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