Name & Surname: Neda Moradi

Date of Birth: 1985- Iran.

Address, Suburb, State, Postcode: Department of Soil Science, Agriculture Faculty, Shahid Chamran University of Ahvaz, Ahvaz, Iran,

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PROFESSIONAL PROFILE:

Assistant Professor of Soil Chemistry and Pollution in Shahid Chamran University (SCU) of Ahvaz.

EDUCATION BACKGROUND:

Ph.D.: Soil Chemistry and Fertility (2017), Urmia University, Urmia, Iran

Thesis title:

"Biochar production from plant residues (pruning waste of trees and straw) and study of its effect on calcareous soil properties and plant growth"

MSc: Soil Chemistry and Fertility (2010), Urmia University, Urmia, Iran

Dissertation title:

"Effects of lowmolecular weight organic acids on phosphorus sorption characteristics in some calcareous soils."

B.S.: Soil Science (2008), Urmia University, Urmia, Iran

TEACHING AND TRAINING EXPERIENCE:

- General soil science and Organic agriculture for BSc students
- Soil quality management for MSc students
- Theory and application of analytical instruments in soil science and Research methods
- Instruments in soil fertility management and plant nutrition for PhD students

HONOURS AND AWARDS:

- Top student in M.Sc. (Urmia University, Urmia, Iran)
- Top student in Ph.D. (Urmia University, Urmia, Iran)

INTERESTS AND RESEACH FIELDS:

- My primary research interest is on soil contamination by organic and inorganic pollutants and remediation of contaminated soils.
- Production of nanobiochar and its effect on the heavy metals mobility in contaminated soils and application of low-cost amendments for improving plant growth in contaminated soils.

RESARCH ACTIVITIES:

PUBLICATIONS:

1. Moradi, N. Karimi, A. (2021). Fe-Modified Common Reed Biochar Reduced Cadmium (Cd) Mobility and Enhanced Microbial Activity in a Contaminated Calcareous Soil, Journal of Soil Science and Plant Nutrition, 21: 329-340 .
2. Moradi, N. Karimi, A. (2021). Effect of modified corn residue biochar on chemical fractions and bioavailability of cadmium in contaminated soil. Journal Chemistry and Ecology, 37(3): 252-267 .
3. Khodaverdiloo, H. Han, F.X. Hamzenejad Taghlidabad, R. Karimi, A. Moradi, N. Kazery, J. (2020). Potentially toxic element contamination of arid and semi-arid soils and its phytoremediation. Journal Arid land research and Management, 4:361 – 391 .
4. Pashapour, SH. Sepehr, E. Moradi, N. (2020). Effect of different sources of sulfur on distribution of inorganic phosphorus forms in a calcareous soil. Applied Soil Research, 8(3): 55-67. In Persian.
5. Moradi, N. (2020). The role of low molecular weight organic acids in micronutrient bioavailability in soil. Journal of Land Management, 8(1): 83-95. In Persian.
6. Moradi, N. Karimi, A. (2020). Effect of corn stover-modified biochar on some biological properties of a Cd-contaminated calcareous soil. Soil Management and Sustainable Production, 9 (4): 127-144. In Persian.
7. Moradi, N. Rasouli-Sadaghiani, M.H. (2019). Effect of Phosphate-solubilizing bacteria (PSB) on distribution of phosphorus forms in a calcareous soil. Applied Soil Research, 7(2): 67-81. In Persian.
8. Moradi, N, Rasouli-Sadaghiani, M.H. (2019). The assessment of the potential of two rangeland plants for absorption and accumulationof lead (Pb) in a contaminated calcareous soil. Journal of Agricultural Engineering, 42 (2): 115-130. In Persian.
9. Moradi, N. Rasouli-Sadaghiani, M.H. Sepehr, E. (2017). Effect of biochar types and rates on some soil properties and nutrients availability in a calcareous soil. Journal of Water and Soil (ISC). In Persian.

10. Rasouli-Sadaghiani, M.H. Karimi, H. Khodaverdiloo, H. Moradi, N. Barin, M. (2017). The Role of Humic Acid on Phytoremediation of Pb through a Pasture Collar Plant (Xeanthium vetelus). Water and Soil Science, 27(2): 249-266. In Persian.
11. Momtaz, H.R. Moradi, N. Dolati, B. Akbarzadeh, G. (2017). Toposequence and Land use Effects on Some of Soil Physical, Chemical and Clay Mineralogical Properties (A Case study: Chaypareh, West Azarbayjan Province). Water and Soil Science, 27(1): 55-67. In Persian.
12. Rasouli-Sadaghiani, M.H. Moradi, N. Hamzenejhad, R. (2015). The effect of type and ratio of vermicompost on selected growth indices and nutrients content of tomato at greenhouse conditions. Journal of Science and Technology of Greenhouse Culture 6(4):115-128.
13. Moradi, N. Rasouli-Sadaghiani, M.H. (2014). Effect of poultry, cattle, sheep manures and sewage sludge on N mineralization. Journal Chemistry and Ecology, 30(7): 666-675.
14. Moradi, N. Rasouli-Sadaghiani, M.H. Sepehr, E. and Abdolahi, B. (2013). Effects of citric and oxalic acids on phosphorus sorption characteristics in some calcareous soils. Journal of Science and Technology, 16 (62): 25-33. In Persian.
15. Moradi, N. Rasouli-Sadaghiani, M.H. Sepehr, E. and Abdolahi, B. (2012). Organic acids effects on phosphorus adsorption in calcareous soils. Turkish Journal of Agriculture and Forestry, 36: 459-468 .
16. Moradi, N. Rasouli-Sadaghiani, M.H. Sepehr, E. and Abdolahi, B. (2012). Effects of low molecular weight organic acids on phosphorus sorption characteristics in some calcareous soils. Iranian Journal of Soil and Water Research, 42(2): 233-239. In Persian.

CONFERENCE PRESENTATIONS:

1. Moradi, N. Rasouli-Sadaghiani, M.H. (2019). Evaluation of Some Soil Biological Indices at Different Levels of Lead (Pb) Pollution in Soil. 3rd international conference of agriculrural sciences. 27-28 March, Basrah, Iraq.
2. Moradi, N. Karimi, A. (2019). Effect of common reed biochar application on microbial biomass and activity of dehydrogenase and catalase at different levels of cadmium (Cd) in soil. 16th Iranian Soil Science Congress, 27-29 August, Zanjan, Iran.
3. Hosseinpour, V. Moezzi, A. Moradi, N. (2019). Effects of pyrolysis temperature on physicochemical characteristics of biochar produced from the corn and palm wastes. 16th Iranian Soil Science Congress, 27-29 August, Zanjan, Iran.
4. Pashapour, Sh. Sepehr, E. Moradi, N. (2019). Effect of Sulphuric Acid and Aluminum Sulfate on adsorption behavior of phosphorus in calcareous soil. 16th Iranian Soil Science Congress, 27-29 August, Zanjan, Iran.
5. Rezaeidanesh, N. Rasouli-Sadaghiyani, M.H. Barin, M. Moradi, N. (2019). Effect of biochar and PGPR bacteria application on some microbiological indices and activity of urease and alkaline phosphatase in soil grown with corn. 16th Iranian Soil Science Congress, 27-29 August, Zanjan, Iran.
6. Moradi, N. Karimi, A. (2019). Effect of corn and common reed biochar on some chemical properties of a calcareous soil. The 2nd International and 3rd National Conference on Agriculture, Environment and Food Security. 6 March 2019, Joroft, Iran.

7. Moradi, N. Karimi, A. (2019). Evaluation of changes in some soil microbial characteristics in response to Cd contamination. The 2nd International and 3rd National Conference on Agriculture, Environment and Food Security. 6 March 2019, Joroft, Iran.
8. Moradi, N. Rasouli-Sadaghiani, M.H. Sepehr, E. (2017). Effects of pyrolysis temperature on the characteristics and chemical composition of biochar produced from the apple pruning wastes, grape pruning wastes and wheat straw. 15th Iranian Soil Science Congress, 28-30 August 2017, Isfahan, Iran.
9. Moradi, N, Rasouli-Sadaghiani, M.H. Sepehr, E. (2017). Effects of type and pyrolysis temperature on some soil microbial indices. 15th Iranian Soil Science Congress, 28-30 August 2017, Isfahan, Iran.
10. Moradi, N, Rasouli-Sadaghiani, M.H. Sepehr, E. (2017). Effects of wheat straw biochar on growth of Lettuce plant (Lactuca sativa L.) in a lead spiked soil. 15th Iranian Soil Science Congress, 28-30 August 2017, Isfahan, Iran.
11. Moradi N. Rasouli-Sadaghiani, MH. Mashyekhi, M. (2014). Effect of Phosphates Solubilizing Bacteria on Inorganic and Organic Phosphorus fractionation in Calcareous Soil. 13th Iranian soil science congress, Ahvaz, Iran.
12. Moradi N. Rasouli-Sadaghiani, MH. Mashyekhi, M. (2014). Effect of phosphate solubilizing fungi on phosphorus fractionation in a calcareous soil. 13th Iranian soil science congress, Ahvaz, Iran.
13. Moradi N. Rasouli-Sadaghiani, MH. (2014). Effect of manures and sewage sludge on nitrogen and organic carbon relations in calcareous soils. 13th Iranian soil science congress, Ahvaz, Iran.
14. Moradi, N. Ashrafi, S. Momtaz, H.R. Rasouli-Sadaghiani, MH. Khodaverdiloo, H. (2014). Effect of Urmia City Wastes on Physical and Chemical Properties of Soils. 13th Iranian soil science congress, Ahvaz, Iran.
15. Hamzenejhad, R. Rasouli-Sadaghiani, MH. Moradi N. (2014). Study of vermicompost from different organic residues on physiological characteristics of tomato in greenhouse culture. 13th Iranian soil science congress, Ahvaz, Iran.
16. Rasouli-Sadaghiani, MH. Moradi N. Ashrafi, S. (2014). Effect of vermicompost ratio of different organic sources on uptake of micro-elements (Fe, Zn, Cu and Mn) in tomato. 13th Iranian soil science congress, Ahvaz, Iran.
17. Moradi, N. Momtaz, HR. Torabi, H. (2014). Quantitative Land Suitability Evaluation of Amol region for soybean cultivation as a second crop after rice. Soil and Environment National Congress, Urmia, Iran.
18. Moradi N. Ashrafi, S. Rasouli-Sadaghiani, MH. Khodaverdiloo, H. (2014). Evaluation of the effect of humic acid on population and microbial activity in a lead contaminated soil. Soil and Environment National Congress, Urmia, Iran.
19. Moradi N. Rasouli-Sadaghiani, MH. Hamzenejhad, R. (2014). Effect of vermicompost types and ratios different sources of organic in macro-elements (N, P and K) uptake in tomato. Soil and Environment National Congress, Urmia, Iran.
20. Moradi, N. Momtaz, HR. Torabi, H. (2014). Land Suitability Evaluation and determination of the potential of rice production in Amol region. Soil and Environment National Congress, Urmia, Iran.

21. Moradi, N. Momtaz, HR. Torabi, H. (2014). Qualitative land suitability of Amol region for the cultivation of soybeans as second cultivation. Soil and Environment National Congress, Urmia, Iran.
22. Rasouli-Sadaghiani, MH. Moradi N. Karimi, H. Khodaverdiloo, H. (2014). Effect of humic acid and plant type on lead bioactivity in soil. Soil and Environment National Congress, Urmia, Iran.
23. Ashrafi, S. Moradi, N. Rasouli-Sadaghiani, MH. Barin, M. (2014). Effect of fire on the amount of potassium and phosphorus available in forest soils. Soil and Environment National Congress, Urmia, Iran.
24. Impact of Urban Waste on Some Physical, Chemical, and Biological Properties of Soil at Landfill. 2014. 8th National conference on World Environment Day, Tehran, Iran.
25. Moradi N. Rasouli-Sadaghiani, MH. (2013). Use of some manures and sewage sludge on nitrogen availability to reduce nitrogen fertilizer application. 7th National conference on World Environment Day, Tehran, Iran.
26. Moradi N. Rasouli-Sadaghiani, MH. Sepehr, E. (2012). Evaluation of soil phosphorus release by oxalic acid. 2012. 8th International Soil Science Congress land degradation and challenges in sustainable soil management, 15-18 May, Izmir, Turkey.
27. Moradi N. Rasouli-Sadaghiani, MH. Sepehr, E. Abdolahi, B. (2011). Effect of malic acid on phosphorus adsorption properties in some calcareous soils. 12th Iranian soil science congress, 3-5 September, Tabriz, Iran.
28. Rasouli-Sadaghiani, MH. Gosta, U. Moradi, N. Barin, M. (2011). Application of prunes residues compost in order to reduce the use of chemical fertilizers. 1st Iranian Fertilizer Challenges Congress, Tehran, Iran.
29. Moradi N. Rasouli-Sadaghiani, MH. Sepehr, E. Abdolahi, B. (2010). Evaluation of organic acid and soil phosphorus reaction in calcareous soils of Iran, International scientific conference devoted to the 65th anniversary of the U.U.Uspanov institute of soil science and agrichemistry, 15-16 September, Almaty, Kazakhstan.
30. Moradi N. Rasouli-Sadaghiani, MH. Sepehr, E. Abdolahi, B. (2011). Investigation of phosphorus adsorption properties in some calcareous soils of West Azarbaijan. 12th Iranian soil science congress, 3-5 September, Tabriz, Iran.
31. Moradi N. Rasouli-Sadaghiani, MH. Sepehr, E. (2010). The potential of organic acids to dissolve the soil phosphorus in order to reduce the use of phosphate fertilizers in line with sustainable agriculture. 4th National conference on World Environment Day. 8-10 June, Tehran, Iran.
32. Rasouli-Sadaghiani, MH. Barin, M. Abdolahi, B. Rezayidanesh, Y. Moradi, N. Khosravi, A. (2009). Nitrogen mineralization rate in sewage sludge and various manures in calcareous soils. 11th Iranian soil science congress, Gorgan, Iran.

RESEARCH PROJECTS:

- Study and preparing implementation procedures for decreasing 40% water use consumption in Nazlou-Chai, Barandoz-Chai, Shahar-Chai and Rouze-Chai Basin. 2017-2019.
- Investigating the effect of modified biochars on availability and distribution of cadmium chemical fractions in a contaminated soil. 2018- 2019.
- Effect of wood vinegar (pyroligneous acid) on some soil properties and growth of sugarcane plant. 2020 until now.

- Evaluation of some nanobiochar effect on the heavy metals mobility in contaminated soil. 2020 until now.

PROFESSIONAL MEMBERSHIPS:

- Soil Science Society of Iran.
- Agricultural and Natural Resources Engineering Organization

LANGUAGES:

- Persian (native)
- English (medium)