Curriculum Vitae

Name & Surname: Mostafa Chorom

Date of Birth: 21 March 1959

Address, Suburb, State, Postcode: Department of Soil Science & Engineering, Faculty of Agricultural, Shahid Chamran University (SCU) of Ahvaz/Iran & Postal Code: 6135743339

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PROFESSIONAL PROFILE:

Professor in Chemistry of Soil and pollution in Shahid Chamran University (SCU) of Ahvaz/Iran.

EDUCATION BACKGROUND:

B.Sc. at Soil Science in 1984 from Shahid Chamran University (SCU) of Ahvaz /Iran

M.Sc. at Soil Science in 1986 from Tehran University, Iran

Ph.D. at Soil Science in 1995 from Adelaide University, Australia.

M.Sc. Thesis Title:

"The study of Soil erodibility and Gully erosion from North -east of Khuzestan province, Iran."

Ph.D. Thesis Title:

"Behavior of Alkaline Sodic Soils and Clays as Influenced by pH and Particle Charge."

TEACHING AND TRAINING EXPERIENCE:

Teaching Courses:

- Soil Organic matter in soils, Chemical Equilibria in Soils (in Ph.D. degree).
- Soil Advance Chemistry, Soil and Water pollution Advance (in M.Sc. degree).
- Salinity and Sodic Soils (in B.Sc. degree).

Training Experience:

Supervising on the soil sample taking from the field and analysis for soil physical (clay, silt and sand, Bulk density, color), chemical (ECe, pH, SOM), biological (MPN, MOC), TPH and two of the most widely used herbicides. I have much experience deal with geochemical analyses of Sediments and environmental samples. I had many projects on river sediments pollution, which are related to heavy metals, pesticides and recharge of municipal sewage in river. Cooperation in final report preparation writing and editing, publishing and project defense.

INTERESTS AND RESEACH FIELDS:

I was involved in several field research projects in Soil Chemistry, Soil and Water pollution, River sediments pollution and management of application of Sewage sludge and Wastewater in Agriculture. I have supervised for more than 70 post-graduate students. We work on different aspect of clays on adsorption pollutants and heavy metals, as well as, the methodology such as phytoremediation, biochar technic and biodegradation for finding the ways on fate of them.

RESARCH ACTIVITIES:

RESRACH AREA:

- Non Clay particles
- Adsorption and desorption Contaminates on Solid Phase
- Transport and fate of Contaminates in soil and water
- Nona Fertilizers
- Application of Sewage Sludge in Agriculture Lands
- Bioremediations treatments

PUBLICATIONS

PAPERS:

1. M.chorom, P.Rengasamy, and R.S Murray (1994). The Effect of pH and Eleetrical charge on clays dispersion. Sealiny, crusting and Hard setting Conference, Brisban, Australia.
2. M.chorom, P.Rengasamy, and R.S Murray (1994). Clay dispersion as influenced by pH and net particle charge of Sodic soils. Australian Journal of Soil Research 32, 1243- 52.

3. M.chorom, and P.Rengasamy(1995). Dispersion and zeta potential of pure clays as related to net particle charge under varying pH, electrolyte concentration and cation type. European Journal of Soil Science 46, 657-65.
4. M. Chorom, and P.Rengasamy (1996). Effeet of heating on swelling and dispersion of different cationic forms of a smectite. Journal of Clays and clay Minerals 44, 783-790.
5. M. Chorom, and P.Rengasamy(1997). Cabonate chemistry, pH, and physical properties of an alkaline sodic soil as affected by various amendments. Australian Journal of Soil Research 35, 149-61.
6. Saima Hashem, Mostafa Chorom, Hossein Motamedi, Ghadamali Yazdani (2008). The effects of the using sewage sludge on farmlands on spreading… The second iranian congress of clinical microbiology.
7. Sadegh-Zadeh, F., Jalili Seh-Bardan, B., Moazzi, A. A., & Chorom, M. (2008). An investigation of steel industrial kiln dust effects on chemical properties of acid soil. Malaysian Society of Soil Science.
8. Mohammadi, A., F. Sadeg-Zadeh, B.Jalili, Samsuri, A., W., M.Chorom and Yazdani, C.A. (2008). An investigation of compaction effects on Nitrogen, Phosphorus…Sustaining soil ecosystems with emphasis on soils, Aprill 2008.
9. Mostafa Chorom, Majid Baghernejad and Siroos Jafar (2009). Influence of sugarcane production and rotation cropping on the clay mineral assemblage. Applied clay science journal 46, 385-395.
10. F. Sadegh-Zadeh, bahi Jelili She- Bardan, Abd Wahid Samsuei, Ahmed Mohammadi, Mostafa Chorom and Ghadam-Ali Yazdani (2009). Saline soil reclamation by means of layered Mulch. Arid Land Research and Management journal 23, 127-136.
11. M. CHOROM, H.s. Shaerifi, H. Motamedi (2010). Bioremediation of a crude Oil-polluted soil by application of fertilizer. Iranian J. of Envi. Health Sci. and Eng. 7:319-320.
12. 12-Chorom. M. and Hossini S. (2011). Bioremediation of a crude Oil-polluted soil by Sewage sludge. Pedologist J. 54: pp 294- 301.
13. Rahim Mohammadzadeh Karakagh, Mostafa Chorom, Hossein Motamedi, Yusef ianpoor Kalkhajeh, Shahin Oustan. (2012). Biosorption of Cd and Ni by inactivated bacteria isolated from agricultural soil treated with sewage sludge. ECOHYDROLOGY and HYDROBIOLOGY Journal, Vol. 12 No. 3, 191-198.
14. Mostafa Chorom, Amir Parnian, and Nematolah Jafarzade (2012). Nickel removal by the aquatic plant (Ceratophyllum demersum L.). International Journal of Environmental Science and Development Volume 3, Number 4, August 2012.
15. Mostafa Chorom · Rahim Mohammadzadeh Karkaragh · Babak Kaviani · Yusef kianpoor Kalkhajeh · (2013). Monometal and Competitive Adsorption of Cd, Ni, and Zn in Soil Treated with Different Contents of Cow Manure. Applied and Environmental Soil Science 2013(6). June 2013.
16. Roya Karimi, Mostafa Chorom, Sina Solhi, Mahmood Solhi and Abdollah safe (2012). Potential of Vicia faba and Brassica arvensis for phytoextraction of soil contaminated with cadmium, lead and nickel. African Journal of Agricultural Research Vol. 7(22), pp. 3293-3301, 12 June 2012.
17. Mohebbi. A., Harutyunyan S., Chorom. M. (2012). Phytoremediation potential of three plant grown in monoculture and intercropping with date palm in contaminated soil. International Journal of Agriculture and Crop Sciences, IJACS/2012/4-20/1523-1530.

18. H.R. Boostani, M. Chorom, A.A. Moezzi, N. Enayatizamir (2014). Mechanisms of plant growth promoting rhizobacteria (PGPR) and mycorrhizae fungi to enhancement of plant growth under salinity stress: (A review). Scientific Journal of Biological Sciences, 3(11) 98-107.
19. Narges Mehrab, Mostafa Chorom, Saeid Hojati, Rahim Mohammadzadeh Karakagh (2016). Effect of Raw and NH4+-enriched Zeolite on Nitrogen Uptake by Wheat and Nitrogen Leaching in Soils with Different Textures. Journal of soil communication. 47 (10); 1306-1316.
20. Chaab, A. Moezzi, G. Sayyad and M. Chorom (2015). Effect of Chromium and Cadmium on Growth Parameters and Biochemical Responses in Soil Treated with Compost and Humic Acid. International Journal of Plant & Soil Science 8(4): 1-8, 2015.
21. H.R. Boostani, M. Chorom, A.A. Moezzi, N. G. krimian and N. Enayatizamir (2016) Investigation of zinc release kinetics in an agricultural calcareous soil as influenced by Applied Organic Materials and Salinity Using Mathematical Models. Jordan journal of agricuiture science 12 (3); 209- 221.
22. Hamid Elvani, Reza Farukhi nejad, Mostafa Chorom (2016). The effects of EDDHA and Ca on suppression of Fusarium solani and growth improvement of hopbush (Dodonaea viscosa. Mediterranean Journal of Biosciences, 75-82.
23. Moslem Tahmasebi Shamansouri , Naeimeh Enayatizamir , Mostafa Chorom and Afrasyab Rahnama hahfarokhi (2018).Impact of biological and chemical treatments on theimprovement of salt tolerance in wheat. Journal of plant physiology and breeding. Tabriz University press. No. 82.
24. Said Safir zada, Mostafa Chorom: Naema Eniyti zamir (2019) .EFFECT OF PHOSPHATE SOLUBILISING BACTERIA (ENTEROBACTER CLOACAE) ON PHOSPHORUS UPTAKE EFFICIENCY IN SUGARCANE (SACCHARUM OFFICINARUM L.). SOIL RESEARCH, Vol 57 NO. 4, 333-341, CSIRO PUBLISHING.
25. Akbar Karimi, Abdolamir Moezzi, Mostafa Chorom & Naeimeh Enayatizamir (2019). Chemical Fractions and Availability of Zn in a Calcareous Soil in Response to Biochar Amendments. Journal of Soil Science and Plant Nutrition. SPRINGER BASEL AG: 19, No. 4.
26. Hadis Feyzia, Mostafa Choroma, Ghobad Bagherib (2020). Urease activity and microbial biomass of carbon in hydrocarbon contaminated soils. A case study of cheshmeh khosh oil field, Iran. Ecotoxicology and Environmental Safety Journal. ACADEMIC PRESS INC ELSEVIER SCIENCE, No. 199-110664.
27. Akbar Karimi, Abdolamir Moezzi, Mostafa Chorom & Naeimeh Enayatizamir (2020).Application of Biochar Changed the Status of Nutrients and Biological Activity in a Calcareous Soil Journal of Soil Science and Plant Nutrition. SPRINGER BASEL AG: 20, No. 2.
28. Saeed Safirzadeh, Mostafa Chorom & Naeimeh Enayatizamir, (2021). Speciation and Fractionation of Phosphorus Affected by Enterobacter cloacae in the Rhizosphere of Sugarcane (Saccharum officinarum L.). Journal of Soil Science and Plant Nutrition. SPRINGER BASEL AG: 2, No.

CONFERENCE PROCEDDING:

1. Chorom, M., Sarvi, V., Alizade, H. M. Moetmedi (2011). BIOREMEDIATION OF AHVAZ OIL CONTAMINATED SOIL BY OIL-DEGRADING BACTERIA AND ARBUSCULAR MYCORRHIZAL FUNGI. 4th International Contaminated Site Remediation Conference. September 12, 2011, CRC. Adelaide, Australia.

2. Chorom, M., & Sharifi, S., (2010). Increase sorption endosulfan by soil amendments and its effects on retention and leaching from soil. 19th world congress of soil science soil solutions for a changing world. From Sunday, August 1, 2010, Brisbon, Australia.
3. Chorom, M., Sharifi. S., & Moehtamdi, H. (2010). Bioremediation of crude oil polluted soil as a affected by sewage-sludge. 19th world congress of soil science soil solutions for a changing world. August 1, 2010, Brisbon, Australia.
4. Cheloei, M., Chorom, M., & Moehtamdi, H. (2011). Isolation and identification of the most resistant bacteria to cadmium and zinc in sewage sludge. 5th National Seminar of Chemistry &Environment December 21, 2011. in Shahid Chamran University (SCU) of Ahvaz/Iran.
5. Akbar Karimi, Abdolamir Moezzi, Mostafa Chorom & Naeimeh Enayatizamir (2019).Effect of sugarcane bagasse derived biochar on some chemical properties of a calcareous soil. 3rd international conference of agricultural sciences, Basre. Iraq.

RESEARCH PROJECTS:

- Chorom, M., (2004).The study of Chemical and mineralogical Karoon River Sediments in Ahvaz/Iran.
- Chorom, M., & Sarvi, V., (2010). Bioremediation of soil polluted by Crude oil in areas of Khuzestan province, Iran.

PROFESSIONAL MEMBERSHIPS:

- Soil Science Society of Iran (In present)
- Used to be Soil Science Society of AUS & NZ (1992-1995)

LANGUAGES:

Persian (native)

English (good)