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#### Conducting Researches

- 1) Assessing the usability of soluble P derived from phosphate rock bio-solubilization as a liquid fertilizer

#### Compilation Books

- 1) Water Conservation, compilation, Intech Publisher, 2011/12/09
- 2) Advances in Tropical Soil Sciences, compilation, None, 2013/01/30
- 3) Mitigation of contaminated soils and water using biochar, compilation, UPM
- 4) Laboratory Manual of Soil microbiology, compilation, Sari university of agricultural sciences & natural resources Press, 2017/01/20

#### Papers in International Journals

- 1) Ranjbar Mehrdad, sadeghnejad Ghasem, Bahmanyar Mohammad Ali, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, 2016/03/09, Effects of long-term municipal waste compost application on the concentrations of macro elements and yield of rice, international journal of human capital in urban management, 1, 243-252

for efficient removal of nitrate from aqueous solutions, Revue Des Sciences Fondamentales Et Appliquées, 8, 1058-1071  
 Ali, Sadegh-Zadeh Fardin, Biparva Pourya, 2016/06/19, Synthesis of Mg/Al layered double hydroxide (LDH) nanoplates  
 2) Mohammadi Maryam, Bahmanyar Mohammad

- 3) Faghih Fatemeh, Emadi Seyed Mostfa, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, 2018/04/07, Long-term charcoal-induced changes to soil properties in temperate regions of northern Iran, JOURNAL OF FORESTRY RESEARCH, 30, 00-00

- 4) Sadegh-Zadeh Fardin, parichehreh maedeh, Jalili Bahi, Bahmanyar Mohammad Ali, 2018/06/06, Rehabilitation of calcareous saline-sodic soil by means of biochars and acidified biochars, LAND DEGRADATION & DEVELOPMENT, 29, 3262-3271

- 5) Sadegh-Zadeh Fardin, parichehreh maedeh, Jalili Bahi, Bahmanyar Mohammad Ali, 2018/12/02, Rehabilitation of calcareous saline-sodic soil by means of biochars and acidified biochars, LAND DEGRADATION & DEVELOPMENT, 29, 3262-3271

- 6) Jalili Bahi, Sadegh-Zadeh Fardin, Jabari-Giashi Mahsa, Emadi Seyed Mostfa, 2020/07/01, Lead bioimmobilization in contaminated mine soil by Aspergillus niger SANRU, JOURNAL OF HAZARDOUS MATERIALS, 393, 1223-122375

- 7) Hoseinian Yalda, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Emadi Seyed Mostfa, Biparva Pourya, 2020/09/13, Effects of different sources of silicon and irrigation regime on rice yield components and silicon dynamics in the plant and soil, JOURNAL OF PLANT NUTRITION, 43, 2322-2335

- 8) Jalili Bahi, Sadegh-Zadeh Fardin, Nouri Amir-Kolaei Zohreh, 2023/04/23, Biorecovery of ammonium from manure digestate by Acidithiobacillus thiooxidans, CHEMICAL ENGINEERING JOURNAL, 466, 1430-94

- 9) Keramati Shahriar, Amininasab Seyed Mehdi, Tatian Mohammad Reza, Sadegh-Zadeh Fardin, 2025/03/26, The Relationships Between Soil and Egg Parameters and Lead and Cadmium Concentrations in Eggshell and Egg Content of Collared Pratincole (Glareola pratincola), BIOLOGICAL TRACE ELEMENT RESEARCH, <https://doi.org/10.1007/s12011-025-04592-3>, 1-13

10) parichehreh maedeh, Sadegh-Zadeh Fardin, Jalili Bahi, Bahmanyar Mohammad Ali, AbdolWahid Samsuri, 2022/11/12, Removal of Direct Blue 71 and chromium from aqueous solutions by metal coating organic adsorbents, metal coating biochar and biochar-metal composite, water and soil management and modeling, 3, 122-132

#### Papers in National Journals

1) Rahimi Alashti Sepideh, Bahmanyar Mohammad Ali, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, Mokhtasi Bidgoli Ali, 2022/01/21, The effect of some organic and mineral amendments on soil macronutrient and micronutrient under Quinoa cultivation in stress status, None, 11, 25-48

#### Presented Papers in International Conferences

1) Jalili Bahi, Sadegh-Zadeh Fardin, Proceeding of the Soil Science Conference of Malaysia, announcer, complete article, An investigation of steel industrial kiln dust effects on chemical properties of acid soil. Malaysian conference of Soil Science, 2008/04/15, 2008/04/17

2) AbdolWahid Samsuri, Sadegh-Zadeh Fardin, Jalili Bahi, Agriculture and Environment conference. Sarawak, Malaysia., announcer, complete article, Source of organic amendment influenced napropamide sorption and desorption in sandy soil, 2009/10/14, 2009/10/16

3) Jalili Bahi, Othman Radzieh, Sadegh-Zadeh Fardin, Proceeding of the Soil Science Conference of Malaysia, announcer, complete article, Biosorption of heavy metals in leachate derived from bioleaching of gold mine tailings using *Aspergillus fumigatus*, 2012/04/10, 2012/04/12

4) Mohammadi Maziar, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Biparva Pourya, 2nd International Conference on Research in Science and Technology, poster presentation, brief article, Synthesis of Mg/Al layered double hydroxide (LDH) nanoplates for efficient removal of nitrate from aqueous solution, 2016/03/14, 2016/03/14

5) Emadi Seyed Mostfa, Faghih Fatemeh, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION, announcer, complete article, BLACK CARBON APPLICATION AS A SUSTAINABLE MANAGEMENT APPROACH IN TEMPERATE REGION: A LESSON FROM HISTORICAL CHARCOAL PRODUCTION SITES IN BEECH FOREST OF NORTHERN IRAN, 2016/08/22, 2016/08/26

6) Sadegh-Zadeh Fardin, Samsuri Abd Wahid, Jalili Bahi, 3rd International Conference on Food, Agriculture and Natural Resource 2017, poster presentation, brief article, Cadmium adsorption from aqueous solution as affected by acidic functional groups and particle size of biochar, 2017/08/21, 2017/08/23

7) Bahmanyar Mohammad Ali, falah tolekolaei sepideh, Sadegh-Zadeh Fardin, Emadi Seyed Mostfa, 4th International Rice Congress, October 27-November 1, poster presentation, complete article, Effect of applying different amount of municipal solid waste compost and biochar on concentration of nutrients in rice plan, 2014/11/27

8) Zameni Leila, Sadegh-Zadeh Fardin, Jalili Bahi, Bahmanyar Mohammad Ali, 14 th Iranian Soil Science Congress 2015, poster presentation, brief article, production and characterization of rice straw and husk biochar, 2015/09/07, 2015/09/09

9) Nabizedeh Sakineh, Sadegh-Zadeh Fardin, Jalili Bahi, Emadi Seyed Mostfa, 14th Iranian Soil science Congress, poster presentation, brief article, Biochar Production, 2015/09/07, 2015/09/09

10) Pahnabi Zahra, Jalili Bahi, Sadegh-Zadeh Fardin, Salek-Gilani Soroosh, 2nd, poster presentation, complete article, Effect of DOC on microbial respiration of saline soil, 2016/02/23, 2016/02/25

11) Abouzaryan Moghadam Masomeh, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, Jalili Bahi, 2icsda, poster presentation, complete article, Effect of bagasse and rice husk biochar on some chemical properties of soil, 2016/02/23, 2016/02/25

12) Pahnabi Zahra, Jalili Bahi, Sadegh-Zadeh Fardin, Salek-Gilani Soroosh, 2nd International conference on sustainable development, strategies and challenges With a focus on Agriculture, Natural Resources, Environment and Tourism, poster presentation, complete article, Effect of DOC on urease activity of saline soil, 2016/02/23, 2016/02/25

13) Abouzaryan Moghadam Masomeh, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, Jalili Bahi, 2icsda, poster presentation, complete article, Effect of, 2016/02/23, 2016/02/25

14) Hassan-Tabar Samneh, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, Jalili Bahi, 4th International Conference on Applied Research in Agriculture Science, announcer, complete article, Leaching of saline and sodic soils amended with dissolved organic matter, 2016/12/09, 2016/12/09

15) Paboos Banin, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, 4th International Conference on Applied Research in Agricultural Sciences, announcer, complete article, Concentrations of macro-nutrients (NPK) leaf maize in the application of poultry manure and zeolite, 2016/12/09, 2016/12/09

16) Paboos Banin, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, 4th International Conference on Applied Research in Agricultural Sciences, announcer, complete article, The effects of poultry manure and zeolite on yield and yield components maize, 2016/12/09, 2016/12/09

17) Hassan-Tabar Samneh, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, Jalili Bahi, 4th International Conference on Applied Research in Agriculture Science, announcer, complete article, The effect of dissolved organic matter in terms of incubation on some chemical properties and cations saline and sodic soil, 2016/12/09, 2016/12/09

18) Rostami Marzieh, Jalili Bahi, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, International Conference on Society and Environment, poster presentation, brief article, Biological study of soil contaminated by native strain SANRU-Aspergillus niger strain (Case study: Florin-Pajji Mine Mine)., 2018/09/02, 2018/09/02

19) Emamian Tabarestani Mehrooosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 17th National and 3rd International Iranian Crop Science Congress, poster presentation, complete article, Improvement of phytoremediation efficiency of canola (*Brassica napus* L.) plant to lead using *Trichoderma longibrachiatum* fungi and spermidine, 2022/01/25, 2022/01/27

20) Alijani Shahrbanou, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, The 12 th National conference on sustainable agriculture and natural resources, poster presentation, complete article, effect of ...., 2023/06/21, 2023/06/21

21) Akbari Zahra, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Jalili Bahi, 5th International Congress of Agricultural Engineering, Natural Resources and Environment, announcer, complete article, The effect of using biochars produced from rice straw and Narad wood chips on the amount of elements, 2023/09/11, 2023/09/11

22) Alijani Shahrbanou, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, The 7 th International Conference on the new horizon in science and ...., announcer, complete article, the effect ....., 2024/02/01, 2024/02/01

#### Presented Papers in National Conferences

1) Sadegh-Zadeh Fardin, Jalili Bahi, 13 th Iranian Soil Science Congress 2013, announcer, complete article, Adsorption of As by Fe coated biochars and biochars produced from rice husk from aqueous solution, 2014/01/28, 2014/01/30

2) Nabizedeh Sakineh, Sadegh-Zadeh Fardin, Jalili Bahi, Emadi Seyed Mostfa, 1st National conference of Water Resource Quality and sustainable development, announcer, complete article, Adsorption of methylene blue on biochar, 2015/10/29, 2015/10/29

3) Zameni Leila, Sadegh-Zadeh Fardin, Jalili Bahi, Bahmanyar Mohammad Ali, 1st National conference of Water Resource Quality and sustainable Development, poster presentation, complete article, Adsorption of nitrate by Fe coated biochars and Fe coated biochars and biochars produced from empty fruit bunch and rice husk biochars from aqueous solutions, 2015/10/29, 2015/10/29

4) Hashemi Seyyed Ashkan, Shahnazari Ali, Sadegh-Zadeh Fardin, Ranjbar Nedamani Azadeh, -----, poster presentation, complete article, -----, 2016/08/23, 2016/08/25

5) Almasi Javidi Neda, Jalili Bahi, Sadegh-Zadeh Fardin, The second National Conference on Engineering and Environmental Management, announcer, complete article, An investigation of phosphate solubilization by fungi, 2017/01/25, 2017/01/25

6) Khaleghi Fatemeh, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Mirnia Seyed Khagh, 17th national rice congress, announcer, complete article, Concentration of some micro-nutrient in rice leaf affected by mixed application of manure and chemical fertilizers, 2017/02/05, 2017/02/06

7) khaleghi fatemeh, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, mirnia seyed khlagh, 17th national rice congress, announcer, complete article, Effect of organic and chemical fertilizers on macro-nutrient concentration of rice leaves, 2017/02/05, 2017/02/06

8) Almasi Javidi Neda, Jalili Bahi, Sadegh-Zadeh Fardin, 1st international conference and the 2nd national conference on agriculture, environment and food security, announcer, complete article, Isolation of salt tolerance phosphate solubilizing fungi in solid medium, 2017/02/28, 2017/02/28

9) Masoudi Sahar, Emadi Seyed Mostfa, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, 15th Iranian Soil Science Congress, poster presentation, complete article, Evaluation of geostatistical approaches for mapping available phosphorous and potassium (A case study, Dashtenaz-Sari), 2017/08/28, 2017/08/30

10) Emamgholitar Soghra, Ghajar Sepanlou Mehdi, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, The second, poster presentation, complete article, The effect of, 2018/01/03, 2018/01/03

11) Ghajar Sepanlou Mehdi, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Emamgholitar Soghra, 2nd, poster presentation, complete article, Effect, 2018/01/03, 2018/01/03

12) Emamian Tabarestani Mehranoosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 1th National Congress of Horticulture and Crop Production, poster presentation, complete article, Effect of Piriformospora indica and Trichoderma longibrachiatum fungi on some vegetative traits of canola (Brassica napus L.) under different lead levels, 2018/01/25, 2018/01/25

13) Emamian Tabarestani Mehranoosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 1th National Congress of Horticulture and Crop Production, poster presentation, complete article, Effect of Piriformospora indica and Trichoderma longibrachiatum fungi on some morphological and physiological traits of canola (Brassica napus L.) under different lead levels, 2018/01/25, 2018/01/25

14) Khalili Roqaiyah, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, Jalili Bahi, First National conference on Agriculture, natural Resource and veterinary, announcer, complete article, Effect of sewage sludge and its biochar application on soil organic carbon content, 2018/05/11, 2018/05/11

15) Emamian Tabarestani Mehranoosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 15th National Iran Crop Science Congress, poster presentation, complete article, Evaluation the response trend of photosynthetic pigments of canola (Brassica napus L.) to lead toxicity, 2018/09/04, 2018/09/06

16) Emamian Tabarestani Mehranoosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 15th National Iranian Crop Science Congress, sep.4-6, 2018, Karaj, Iran, poster presentation, complete article, Investigating the changes of some biochemical traits of canola (Brassica napus L.) to lead toxicity, 2018/09/04, 2018/09/06

17) Barazandeh Akram, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, Jalili Bahi, The 6th International Congress on Development and Promotion of Fundamental Science and Technology in Society, poster presentation, brief article, Effect of application of different amount of rice straw biochar and wood dicer chip biochar on chemical properties of two soil, 2018/09/12, 2018/09/12

18) Barazandeh Akram, Sadegh-Zadeh Fardin, Bahmanyar Mohammad Ali, Jalili Bahi, The 9th National Conference on Sustainable Agriculture and Natural Resources, poster presentation, complete article, Effect of rice straw biochar and wood dicer on some micronutrients in two different soils, 2018/11/13, 2018/11/13

19) Sadeghnejad-Talouki Ghadirolah, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Ghajar Sepanlou Mehdi, Second National Conference on Agricultural Development, Healthy Land, poster presentation, complete article, Influence of municipal waste compost application on soil elements, 2019/02/27, 2019/02/27

20) Sadeghnejad-Talouki Ghadirolah, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Ghajar Sepanlou Mehdi, Second National Conference on Agricultural Development, Healthy Land, poster presentation, brief article, Influence of application of municipal solid waste compost on yield and some yield components of rice, 2019/02/27, 2019/02/28

- 21) Emamian Tabarestani Mehranoosh, Pirdashti Hemmatollah, Tajick Ghanbary Mohammad Ali, Sadegh-Zadeh Fardin, 4th Iranian mycological congress, poster presentation, complete article, Identification of some root endophytic fungi of salicornia (*Salicornia L.*) and clover (*Trifolium alexandrinum*) plants, 2019/08/26, 2019/08/28
- 22) Kazemi Mina, Emadi Seyed Mostfa, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, 7th national conference on applied research in agricultural sciences, announcer, complete article, Effects of slope and soil texture on avialble Sin in east and center of Mazandaran province, 2020/01/15, 2020/01/15
- 23) Abedi Abedi, Zaefarian Faezeh, Hasanpour Roghayeh, Sadegh-Zadeh Fardin, The 11th National Conference on Environment, Energy and Sustainable Natural Resources, poster presentation, complete article, Evaluation of the effectiveness of organic modifiers on photosynthetic pigments of quinoa in heavy metal contaminated soils, 2022/02/03, 2022/02/03
- 24) Abedi Abedi, Zaefarian Faezeh, Hasanpour Roghayeh, Sadegh-Zadeh Fardin, The 11th National Conference on Sustainable Agriculture and Natural Resources, poster presentation, complete article, Evaluation of the effect of biochar types on changes in quinoa green index under cadmium contamination, 2022/02/03, 2022/02/03
- 25) Akbari Zahra, Bahmanyar Mohammad Ali, Sadegh-Zadeh Fardin, Jalili Bahi, The 10th national conference of modern studies and researches in the field of biology and natural sciences of Iran, announcer, complete article, The effect of pyrolysis temperature of rice straw and nerad wood biochars on the chemical properties of saline-sodic soil at different depths, 2023/09/11, 2023/09/11
- 26) Keramati Shahriar, Amininasab Seyed Mehdi, Tatian Mohammad Reza, Sadegh-Zadeh Fardin, 3rd national conference on environmental changes, announcer, complete article, effect of vegetation and soil parameters on eggs charecteristics of Collared pratincole (*Galreola partincola*) in coastal rangelands in south of Caspian sea (case study: Anarmarz Jooybar), 2023/12/27, 2023/12/28
- 27) Alijani Shahrbanou, Ghajar Sepanlou Mehdi, Sadegh-Zadeh Fardin, The 9 th scientific& research conference on the . ...., poster presentation, complete article, Investigation ....., 2024/03/06, 2024/03/06
- 28) Keramati Shahriar, Amininasab Seyed Mehdi, Tatian Mohammad Reza, Sadegh-Zadeh Fardin, The 6th National Conference of New Technologies in Agriculture, Natural Resources and Environment of Iran, poster presentation, complete article, The relationships between egg characteristics of Collared pratincole (*Galreola partincola*) in Anarmarz rangelands of Jooybar, 2024/03/10, 2024/03/10

#### Awards & Honors (in terms of: paper, project, etc...)

- 1) Top academic paper on biomobility of lead in contaminated mine soil, international, research festival, 2020/12/16