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PUBLICATION:

Book

1. Sedigheh Maleki, **Farhad Khormali**, Songchao Chen, Hamid Reza Pourghasemi, Mohsen Hosseinalizadeh. ۲۰۲۲. Digital soil mapping of organic carbon at two depths in loess hilly region of Northern Iran. Computers in Earth and Environmental Sciences. ۴۶۷-۴۷۵.
۲. Mohsen Hosseinalizadeh, Mohammad Alinejad, Ali Mohammadian Behbahani, **Farhad Khormali**, Narges Kariminejad, Hamid Reza Pourghasemi. ۲۰۲۰. A review on the gully erosion and land degradation in Iran. Gully Erosion Studies from India and Surrounding Regions. Springer, Cham. ۳۹۳-۴۰۳.
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International Journal Papers

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- ξ. Y, Duan; Q, Sun; J.P, Werne; J, Hou; H, Yang; Q, Wang; **F, Khormali**; F, Chen ۲۰۲۲. The impact of precipitation on the distributions of branched tetraethers in alkaline soils. Organic Geochemistry ۱۶۹, ۱۰۴۴۱۰, pergamon.
- ο. Ch, Költringer; T, Stevens; M, Lindner; Y, Baykal; A, Ghafarpour; **F, Khormali**; N, Taratunina; R, Kurbanov ۲۰۲۲. Quaternary sediment sources and loess transport pathways in the Black Sea-Caspian Sea region identified by detrital zircon U-Pb geochronology. Global and Planetary Change, ۱۰۳۷۳۶, Elsevier.

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٩. M, Hosseini; H, Bahrami; **F, Khormali**; K, Khavazi; A, Mokhtassi-Bidgoli ٢٠٢١. [Artificial Intelligence Statistical Analysis of Soil Respiration Improves Predictions Compared to Regression Methods](#). *Journal of Soil Science and Plant Nutrition* ٢١, ٢٢٤٢-٢٢٥١, Springer International Publishing.
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۴۲. M.Z, Alaeddin; S.A, Movahedi Naeini; **F, Khormali**; A.A, Dehghani, May ۲۰۱۰. Relationship between soil surface area and some physic-chemical properties. ۴th Conference on Agricultural and Natural Resources achievements in western Iran, May, Kordestan University.

۸۳. A, Dehghani; A, Zahiri; **F, Khormali**; R, Ahmadi ۲۰۱۰. Investigating factors of river erosion and sedimentation; A case study of the rivers of Golestan province. The first conference of applied research on water resources in Iran.
۸۴. S, Kasalkhe; **F, Khormali**; F, Kiani; M, Barani Motlagh, March ۲۰۱۰. The effect of lichen crusts on quality of the loess derived soils in Alagol area of Golestan Province. National Conference on Water, Soil, Plant and Agricultural Mechanization. Dezful Azad University.
۸۵. E, Sheidaei; H, Barani; M, Akbarloo; Gh, Heshmati; **F, Khormali**, March ۲۰۰۹. Carbon Sequestration potential of Agropyron clongatom in soil and plant of ranelands in Chapar Ghoime area, Gonbad Kavoods. National Conference on Water, Soil, Plant and Agricultural Mechanization. Dezful Azad University.
۸۶. E, Sheidaei; H, Barani; M, Akbarloo; Gh, Heshmati; **F, Khormali**, March ۲۰۰۹. Carbon Sequestration potential of Atriplex lentiformis in soil and plant of range lands in Chapar Ghoime area, Gonbad Kavoods. ۱st National Conference on Agriculture and Sustainable development. Shiraz Azad University.
۸۷. M.Z, Alaeddin; S.A, Movahedi Naeini; **F, Khormali**; A.A, Dehghani, March ۲۰۰۹. Effect of soil surface area on exchangeable and available K. National Conference on Water, Soil, Plant and Agricultural Mechanization. Dezful Azad University.
۸۸. A, Farshadi Rad; E, Dordipour; **F, Khormali**; F, Kiani ۲۰۰۹. Release rate of non-exchangeable K of silt by CaCl₂ in loess soils of Golestan Province. National conference of agricultural promotion and education, sustainable development of agriculture and natural resources.
۸۹. A, Farshadi Rad; E, Dordipour; **F, Khormali**; F, Kiani ۲۰۰۹. Investigating the different forms of potassium in soil and its components and its relationship with soil fertilizer management in a number of loamy and semi-loamy soils of Golestan province. National conference of agricultural promotion and education, sustainable development of agriculture and natural resources.
۹۰. M, Moslehi; H, Habashi; **F, Khormali**, December ۲۰۰۹. Improving the fertilizer consumption patterns in soil by canopy flow of the forest trees. National Congress on the Consumption Pattern Reforms in Agriculture, Natural Resources, Razi University.

۹۱. M, Moslehi; H, Habashi; **F, Khormali**, December ۲۰۰۹. The effect of canopy on reducing soil erosion and surface runoff. National Congress on the Consumption Pattern Reforms in Agriculture, Natural Resources. Razi University.
۹۲. M, Zeraatpishe; **F, Khormali**; F, Kiani; H, Pahlevani, March ۲۰۰۹. Effect of temperature and precipitation on the carbon stock of the soils and their role in the sustainable development of the range land soils of the Golestan Province. National Conference on the Agriculture Sustainability, Shiraz Azad University.
۹۳. M, Mohammad Nejad; **F, Khormali**; M, Raghimi; A, Abtahi, March ۲۰۰۹. Physico-chemical properties of the saline soils of Golestan Province. National Conference on the Agriculture Sustainability, Shiraz Azad University.
۹۴. M, Mohammad Nejad; **F, Khormali**; M, Raghimi; A, Abtahi, March ۲۰۰۹. Electron Microscopy of the saline soils of Golestan Province. National Conference on the Agriculture Sustainability, Shiraz Azad University.
۹۵. F, Rezaei; **F, Khormali**; E, Dordipour; J, Hoseinifard, March ۲۰۰۹. Available K status in the clay and silt particles as deciphered by clay mineralogical studies. National Conference on the Agriculture Sustainability, Shiraz Azad University.
۹۶. F, Rezaei; **F, Khormali**; E, Dordipour; J, Hoseinifard, March ۲۰۰۹. Release of K from clay particles in rhizosphere of soils with different clay mineralogy under corn plantation. National Conference on the Agriculture Sustainability, Shiraz Azad University.
۹۷. H, Voigt; M, Kehl; **F, Khormali** ۲۰۰۹. Saline soils and salinity assessment in western Golestan Province. ۱۱th National Soil Science Congress, Gorgan, Iran.
۹۸. H, Tazike; A, Pashaei Aval; **F, Khormali**; Sh, Ayoubi ۲۰۰۹. Origin of the soils formed on limestone in Agh Emam area, Golestan Province. ۱۱th Iranian National Congress of Soil Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
۹۹. M, Bahreini; E, Dordipour; **F, Khormali** ۲۰۰۹. Kinetics of nonexchangeable K with oxalic acid in cultivated soils of Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.

۱۰۰. M, Mirkarimi; **F, Khormali**; F, Kiani ۲۰۰۹. Variations of some soil quality indicators under different land uses in Mollisols of Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۱. M, Mirkarimi; **F, Khormali**; F, Kiani; M, Akef ۲۰۰۹. Micromorphological study of soil porosity and microstructure of Mollisols under different land uses and crop rotations. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۲. M, Liaghat; **F, Khormali**; S.A, Movahedi Naeini; E, Dordipour ۲۰۰۹. Micromorphological study of soil porosity as a probable limiting factor for K absorption in two soils of Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۳. A, Shahriari; **F, Khormali** ۲۰۰۹. Clay mineralogy and development of Mollisols in Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۴. A, Shahriari; **F, Khormali**; S.A, Movahedi Naeini ۲۰۰۹. The relationship of the specific soil surface area and soil organic carbon in Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۵. A, Shahriari; **F, Khormali**; Sh, Ayoubi; A, Pashaei Aval ۲۰۰۹. The effect of long term cultivation on soil OC, TN, and C/N of Mollisols in Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۶. A, Ziaei; A, Pashaei Aval; **F, Khormali** ۲۰۰۹. Physico-chemical and morphological properties of loess and palosols to monitor the paleoclimate, a case study in southern Gorgan, Golestan. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۷. A, Ziaei; A, Pashaei Aval; **F, Khormali** ۲۰۰۹. Clay mineralogy of the loess-paleosols in Naharkhoran area, Golestan. Gorgan University of Agricultural Sciences and Natural Resources.
۱۰۸. A, Ziaei; A, Pashaei Aval; **F, Khormali** ۲۰۰۹. Soil development and its relation with Fe compounds in loess-paleosols of Seda Sima Gorgan area, Golestan. Gorgan University of Agricultural Sciences and Natural Resources. July ۱۲-۱۵.

۱۰۹. S, Zaernomali; **F, Khormali** ۲۰۰۹. Clay mineralogy of the Alfisols in south-western Golestan Province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۰. M, Ajami; **F, Khormali** ۲۰۰۹. Aggregate stability and micromorphology of the loess derived soils covered by lichen in northern Golestan province. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۱. **F, Khormali**; E, Dordipour; M, Ajami; A, Amini; R, Ghorbani Nasrabadi ۲۰۰۹. Weathering of glauconitic shale and its K release potential. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۲. S, Shamsi; **F, Khormali**; R, Ghorbani Nasrabadi ۲۰۰۹. Carbon storage and biological soil quality affected by land use change and vegetation type in Agh Su loess derived soils, Golestan. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۳. S, Shamsi; **F, Khormali**; Sh, Shataei; H, Pahlevani ۲۰۰۹. The effect of vegetation and land use change on soil quality indicators of loess derived soils of eastern Golestan. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۴. S, Shamsi; **F, Khormali** ۲۰۰۹. Micromorphology and development of the loess derived soils under different vegetations in Agh Su, Golestan. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۵. S, Sheikhi; A, Jafarzade; **F, Khormali**; H.R, Momtaz ۲۰۰۹. The effect of parent material on micromorphological properties of the soils in Amol. Gorgan University of Agricultural Sciences and Natural Resources.
۱۱۶. K, Nabiollahi; **F, Khormali**; Y, Mohamadi ۲۰۰۸. The effects of clay mineralogy on K buffering capacity. ۳rd Conference on Agricultural and Natural Resources achievements in western Iran, Kordestan Province.
۱۱۷. K, Nabiollahi; **F, Khormali**; Sh, Ayoubi ۲۰۰۷. Origin and evolution of clay minerals in soils of Kharke research station, Kordestan. ۳rd Conference on Agricultural and Natural Resources achievements in western Iran, March, Kordestan Province.

۱۱۸. T, Tajgardan; Sh, Ayoubi; **F, Khormali**; Sh, Shataei ۲۰۰۷. Spatial variability and correlation of some surface soil physico-chemical properties using geostatistics in Agh Ghala area. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۱۹. H, Hassan Nejad; A, Pashaei Aval; **F, Khormali**; M, Mohammadian ۲۰۰۷. Effect of soil moisture regime and rice cultivation on soil mineralogy in Amol area. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۰. M, Ajami; **F, Khormali** ۲۰۰۷. Evolution of clay minerals as indicators of soil degradation on loess hillslopes of Golestan. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۱. S, Zaer Nomali; **F, Khormali**; K, Bazargan; S.A, Movahhedi Naeini; E, Dordipour ۲۰۰۷. K pools and their relation to clay mineralogy in some soils of western Golestan Province. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۲. Gh, Ghanei Motlagh; M, Rezaei; A, Pashaei Aval; **F, Khormali**; A, Mosaedi ۲۰۰۷. Soil salinity and acidity map of some agricultural lands of Agh Ghala, Golestan. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۳. H, Hassan Nejad; A, Pashaei Aval; **F, Khormali**; M, Mohammadian ۲۰۰۷. Effect of ground water table on soil micromorphology and morphological properties in Amol area. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۴. S, Shamsi; **F, Khormali** ۲۰۰۷. Micromorphology and soil quality attributes in a biosequence with loess parent material. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۵. **F, Khormali** ۲۰۰۷. Loess derived soils, Role of climate on evolution, physico-chemical properties and quality attributes. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۶. H, Amini Jahromi; M.H, Naseri; **F, Khormali** ۲۰۰۷. Soil physico-chemical and mineralogical properties of Mollisols formed on loess hillslopes on different slope positions in Agh Emam Golestan. ۱۰th Iranian Congress of Soil Science, Karaj.

۱۲۷. M, Ajami; **F, Khormali**; Sh, Ayoubi ۲۰۰۷. Effect of land use change and slope position on soil quality and micromorphology. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۸. S, Bahram Kalhori; M, Akef; **F, Khormali**; I, Bagheri ۲۰۰۷. Effect of heavy machinery application on physical and micromorphological properties of forest soils. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۲۹. Sh, Ghergherechi; **F, Khormali**; Sh, Mamoodi; Sh, Ayoubi ۲۰۰۷. Micromorphology of gypsum formed in soils of a climo-toposequence in western Golestan Province. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۳۰. **F, Khormali**; Sh, Ghergherechi; Sh, Mamoodi; Sh, Ayoubi ۲۰۰۷. Micromorphology of argillic horizons in Alfisols of southwestern Golestan. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۳۱. M, Moshtaghi; A.Gh, Gholizade; A.L, Gholizade; **F, Khormali** ۲۰۰۷. Properties and classification of the soils of Tobacco Research Institute of Tirtash. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۳۲. A, Keshavarzi; A, Fotovat; **F, Khormali**; Sh, Ayoubi ۲۰۰۷. Adsorption of Pb, Cd and Cu on some soils with xeric, udic and aridic moisture regimes in Golestan Province. ۱۰th Iranian Congress of Soil Science, Karaj.
۱۳۳. M, Ajami; **F, Khormali** ۲۰۰۷. Role of organic matter on improving soil health in agricultural ecosystems with forest land use. ۲nd Iranian Agro-ecological Symposium. Gogan University.
۱۳۴. S, Zaer Nomali; **F, Khormali**; K, Bazargan ۲۰۰۷. Role of clay mineralogy on the efficient K fertilizer applications. ۲nd Iranian Agro-ecological Symposium. Gogan University.
۱۳۵. M, Bahreini; E, Dordipour; **F, Khormali** ۲۰۰۷. Importance of K fertilizer applications in Iran. ۲nd Iranian Agro-ecological Symposium. Gogan University.
۱۳۶. A, Keshavarzi; **F, Khormali**; Sh, Ayoubi; A, Fotovat ۲۰۰۷. Adsorption of Pb, Cd and Cu in two saline soils and nonsaline soils in Golestan Province. ۲nd Iranian Agro-ecological Symposium. Gogan University.

۱۳۷. A, Keshavarzi; **F, Khormali**; Sh, Ayoubi; A, Fotovat ۲۰۰۷. Major clay minerals of the soil with varying physico-chemical properties in Golestan Province, Iran, The ۱st Symposium of Crystallography and Mineralogy of Iran, ۱-۲, ۲۳۴-۲۳۸, Birjand.
۱۳۸. Sh, Ghergherechi; **F, Khormali** ۲۰۰۷. Effect of ground water table and land use on the evolution of clay minerals, a case study in Golestan Province, Iran. The ۱st Symposium of Crystallography and Mineralogy of Iran, ۱-۲, ۲۴۰-۲۵۲, Birjand.
۱۳۹. M, Ajami; **F, Khormali** ۲۰۰۶. Effect of deforestation on soil loss in a loess hillslope of Golestan Province. Conference in Environment and Sustainable Development, Tehran University.
۱۴۰. A, Keshavarzi; A, Fotovat; **F, Khormali**; Sh, Ayoubi ۲۰۰۶, Adsorption of Cd and Pb on two soils with different physico-chemical properties in Golestan Province. Conference in Environment and Sustainable Development, Tehran University.
۱۴۱. H, Shalihar; Sh, Ayoubi; **F, Khormali**; R, Ghorbani Nasrabadi ۲۰۰۶. Soil quality indicators in rice -crop rotations in Dasht Sar Amol, Conference in Environment and Sustainable Development, Tehran University.
۱۴۲. **F, Khormali**; A, Abtahi ۲۰۰۰. Clay mineralogy of Cretaceous to Quaternary sediments of Southern Iran and its paleo-climatic implications. ۱۲th meeting on Mineralogy and Crystallography, ۲: ۴۰۸-۴۱۰, Ahwaz, Iran.
۱۴۳. **F, Khormali** ۲۰۰۰. Application of image analysis and microscopic techniques to estimate gypsum content and porosity of gypsiferous soils. ۹th Iranian Congress of Soil Science, ۲: ۳۶۱-۳۶۲, Tehran, Iran.
۱۴۴. **F, Khormali**; A, Abtahi ۲۰۰۰. Application of UV fluorescence and cathodoluminescence techniques to identify pedogenic calcite. ۹th Iranian Congress of Soil Science, ۲: ۳۶۲-۳۶۳, Tehran, Iran.
۱۴۵. **F, Khormali**; A, Abtahi ۲۰۰۰. Microscopic study of the different forms of pedogenic calcite in arid and semiarid soils of southern Iran. ۹th Iranian Congress of Soil Science, ۲: ۴۱۶-۴۱۷, Tehran, Iran.

۱۴۶. K, Nabiollahi; **F, Khormali**; Sh, Ayoubi ۲۰۰۰. Effect of landform and groundwater table depth on the formation of Mollisols in Kharkeh research station, Kurdistan Province. ۹th Iranian Congress of Soil Science, ۲: ۴۰۱-۴۰۲, Tehran, Iran.
۱۴۷. K, Nabiollahi; **F, Khormali**; K, Bazargan ۲۰۰۰. Evolution of clay minerals and their relation with different forms of K⁺ in Kharkeh research station, Kurdistan Province. ۹th Iranian Congress of Soil Science, ۱: ۴۴۰-۴۴۱, Tehran, Iran.
۱۴۸. R, Ghazanchaei; A, Pashaei Aval; **F, Khormali**; Sh, Ayoubi ۲۰۰۰. Micromorphology of the pedogenic calcite in a loess paleosol sequence in Naharkhoran area, Gorgan. ۹th Iranian Congress of Soil Science, ۲: ۴۴۱-۴۴۲, Tehran, Iran.
۱۴۹. H, Amini Jahromi; M.Y, Naseri; **F, Khormali**; S.A, Movahedi Naeini ۲۰۰۰. Evolution of soil physico-chemical properties, and mineralogy as affected by the geomorphic positions in two different climatic regions of Golestan Province. ۹th Iranian Congress of Soil Science, ۲: ۳۴۴-۳۴۶, tehran, Iran.
۱۵۰. **F, Khormali**; A, Abtahi; S, Mahmoodi ۲۰۰۲. Micromorphology of Argillic horizons in calcareous soils of Fars Province. ۸th Iranian Congress of Soil Science, Rasht, Iran.
۱۵۱. **F, Khormali**; A, Abtahi ۲۰۰۲. Origin and distribution of clay minerals in soils of different climatic regions of Fars Province. ۸th Iranian Congress of Soil Science, Rasht, Iran.
۱۵۲. **F, Khormali**; A, Abtahi ۲۰۰۱. TEM studies on morphology and origin of palygorskite in relation to landscape units in Darab area, Fars Province, Iran. ۷th Iranian Congress of Soil Science, Shahr-e Kord, Iran.
۱۵۳. **F, Khormali**; A, Abtahi ۱۹۹۹. Genesis and clay mineralogy of soils under highly calcareous parent materials in three different regions of Fars, Bushehr and Khuzestan Provinces, Southern Iran. ۷th Iranian Congress of Soil Science, ۴۸-۵۱, Mashhad, Iran.
۱۵۴. **F, Khormali**; A, Abtahi ۱۹۹۹. Genesis, physico-chemical, morphological and mineralogical characteristics of a Mollisols catena formed under water table influence in Darab area, Southern Iran. ۷th Iranian Congress of Soil Science, Mashhad, Iran.

ACADEMIC TEACHING EXPERIENCE:

Clay Mineralogy	M.S. & Ph.D.
Stable Isotopes in Soil Science	Ph.D.
Soil Micromorphology	M.Sc. & Ph.D.
Advanced Soil Genesis and Classification (WRB)	M.Sc.
Problems in Soils of Iran	M.Sc. & Ph.D.
Soil Genesis and Classification (US Soil Taxonomy)	Undergraduate
Saline and alkaline soils	Undergraduate
Geography of Soils	Undergraduate
English for soil science	Undergraduate
Land Evaluation	Undergraduate
Soil Survey	Undergraduate
Arid and Semiarid Soils	Undergraduate

SERVICE AND PROFESSIONAL MEMBERSHIP:

۱. Soil and Water Committee, Golestan Province, ۲۰۰۴-۲۰۰۵
۲. Soil Genesis and Classification group of the Soil and Water Research Institute of Iran.
۳. Committee member, Board of the Iranian Society of Soil Sciences (۲۰۰۹-present)
۴. IUSS (International Union of Soil Science).
۵. Soil Science Society of America, ۲۰۱۱-۲۰۱۴
۶. Committee member, Iranian Quaternary Society
۷. Institute of Tibetan plateau research Chinese academy of sciences
۸. Director, International Office

AWARDS:

۱. ۲۰۱۹ Distinguished Researcher Award for International Activity, GAU
۲. ۲۰۱۸ Distinguished Researcher Award for outstanding researcher of Faculty of Soil & Water, GAU
۳. ۲۰۱۳ Distinguished Researcher Award, GAU
۴. ۲۰۱۲ Distinguished Researcher Award, GAU
۵. ۲۰۱۰ Distinguished Researcher Award, GAU
۶. ۲۰۰۷ Distinguished Researcher Award, GAU
۷. ۲۰۰۶ Distinguished Researcher Award, GAU
۸. ۲۰۰۶ Distinguished Researchers in Agriculture, Ministry of Science
۹. ۱۹۹۷ ۱st rank, PhD entrance exam, Shiraz University
۱۰. ۱۹۹۷ Outstanding Graduate Student, MSc, Shiraz University
۱۱. ۱۹۹۵ ۳rd rank, MSc entrance exam at National level, ۱۹۹۵
۱۲. ۱۹۹۴ Outstanding Undergraduate Student, BSc, Shiraz University
۱۳. ۱۹۹۰ Outstanding High School Graduate, Gonbad Kavoos, Iran

LANGUAGES:

English (IELTS, ۲۰۱۹ and ۲۰۲۱, Academic and General ۷,۵)