Farhad Khormali

List of Publications by Citations

71 papers	1,199 citations	18 h-index	32 g-index
77 ext. papers	1,439 ext. citations	3.2 avg, IF	4.65 L-index

#	Paper	IF	Citations
71	Origin and distribution of clay minerals in calcareous arid and semi-arid soils of Fars Province, southern Iran. *Clay Minerals*, **2003**, 38, 511-527	1.3	103
70	Role of deforestation and hillslope position on soil quality attributes of loess-derived soils in Golestan province, Iran. *Agriculture, Ecosystems and Environment*, **2009**, 134, 178-189	5.7	96
69	Updating soil survey maps using random forest and conditioned Latin hypercube sampling in the loess derived soils of northern Iran. *Geoderma*, **2014**, 232-234, 97-106	6.7	69
68	Environmental factors controlling soil organic carbon storage in loess soils of a subhumid region, northern Iran. *Geoderma*, **2016**, 281, 1-10	6.7	65
67	Argillic horizon development in calcareous soils of arid and semiarid regions of southern Iran. *Catena*, **2003**, 53, 273-301	5.8	63
66	Micromorphology of calcitic features in highly calcareous soils of Fars Province, Southern Iran. *Geoderma*, **2006**, 132, 31-46	6.7	60
65	Micromorphology and development of loess-derived surface and buried soils along a precipitation gradient in Northern Iran. *Quaternary International*, **2011**, 234, 109-123	2	59
64	Loess-soil sequence at Toshan (Northern Iran): Insights into late Pleistocene climate change. *Quaternary International*, **2016**, 399, 122-135	2	42
63	Using magnetic susceptibility to discriminate between soil moisture regimes in selected loess and loess-like soils in northern Iran. *Journal of Applied Geophysics*, **2016**, 127, 23-30	1.7	35
62	Soil formation in loess-derived soils along a subhumid to humid climate gradient, Northeastern Iran. *Geoderma*, **2012**, 179-180, 113-122	6.7	34
61	Early Pleistocene climate in western arid central Asia inferred from loess-palaeosol sequences. *Scientific Reports*, **2016**, 6, 20560	4.9	34
60	Legacy soil maps as a covariate in digital soil mapping: A case study from Northern Iran. *Geoderma*, **2016**, 279, 141-148	6.7	29
59	Grain-size distribution of Pleistocene loess deposits in northern Iran and its palaeoclimatic implications. *Quaternary International*, **2017**, 429, 41-51	2	28
58	Late Pleistocene dust dynamics and pedogenesis in Southern Eurasia Detailed insights from the loess profile Toshan (NE Iran). *Quaternary Science Reviews*, **2018**, 180, 75-95	3.9	27
57	Accuracy Assessment of Landform Classification Approaches on Different Spatial Scales for the Iranian Loess Plateau. *ISPRS International Journal of Geo-Information*, **2017**, 6, 366	2.9	22
56	Pedogenetic investigation of soil degradation on a deforested loess hillslope of Golestan Province, Northern Iran. *Geoderma*, **2011**, 167-168, 274-283	6.7	22
55	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. *Quaternary Research*, **2016**, 86, 95-109	1.9	20

54	Clay transformation and pedogenic calcite formation on a lithosequence of igneous rocks in northwestern Iran. *Catena*, **2015**, 133, 186-197	5.8	18
53	Late Mesozoic–Cenozoic clay mineral successions of southern Iran and their palaeoclimatic implications. *Clay Minerals*, **2005**, 40, 191-203	1.3	18
52	Forms of K as a function of clay mineralogy and soil development. *Clay Minerals*, **2006**, 41, 739-749	1.3	17
51	Cyanobacterial diversity and toxicity of biocrusts from the Caspian Lowland loess deposits, North Iran. *Quaternary International*, **2017**, 429, 74-85	2	16
50	GENESIS AND MORPHOLOGICAL CHARACTERISTICS OF MOLLISOLS FORMED IN A CATENA UNDER WATER TABLE INFLUENCE IN SOUTHERN IRAN. *Communications in Soil Science and Plant Analysis*, **2001**, 32, 1643-1658	1.5	16
49	Soil-parent material relationship in a mountainous arid area of Kopet Dagh basin, North East Iran. *Catena*, **2017**, 152, 252-267	5.8	15
48	Effect of canola rhizosphere and silicate dissolving bacteria on the weathering and K release from indigenous glauconite shale. *Biology and Fertility of Soils*, **2015**, 51, 973-981	6.1	15
47	Effect of the accuracy of topographic data on improving digital soil mapping predictions with limited soil data: An application to the Iranian loess plateau. *Catena*, **2020**, 195, 104810	5.8	14
46	Micromorphology of the lower Pleistocene loess in the Iranian Loess Plateau and its paleoclimatic implications. *Quaternary International*, **2017**, 429, 31-40	2	13
45	Rhizosphere-induced weathering of minerals in loess-derived soils of Golestan Province, Iran. *Geoderma Regional*, **2015**, 5, 34-43	2.7	13
44	Biological soil crusts determine soil properties and salt dynamics under arid climatic condition in Qara Qir, Iran. *Science of the Total Environment*, **2020**, 732, 139168	10.2	13
43	Effect of Soil Moisture Regime and Rice Cultivation on Mineralogical Characteristics of Paddy Soils of Mazandaran Province, Northern Iran, Amol. *International Journal of Soil Science*, **2008**, 3, 138-148	0.2	13
42	Relationships of barley biomass and grain yields to soil properties within a field in the arid region: Use of factor analysis. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2009**, 59, 107-117	1.1	12
41	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. *Quaternary Research*, **2016**, 86, 95-109	1.9	11
40	Base cation dynamics in rainfall, throughfall, litterflow and soil solution under Oriental beech (Fagus orientalis Lipsky) trees in northern Iran. *Annals of Forest Science*, **2019**, 76, 1	3.1	10
39	Climatic significance of the stable carbon isotopic composition of surface soils in northern Iran and its application to an Early Pleistocene loess section. *Organic Geochemistry*, **2019**, 127, 104-114	3.1	10
38	Biomarkers in modern and buried soils of semi-desert and forest ecosystems of northern Iran. *Quaternary International*, **2017**, 429, 62-73	2	9
37	Spatial Variability of Rainfed Wheat Production Under the Influence of Topography and Soil Properties in Loess-Derived Soils, Northern Iran. *International Journal of Plant Production*, **2020**, 14, 597-608	2.4	9

36	Mineralogy and Characteristics of Soils Developed on Persian Gulf and Oman Sea Basin, Southern Iran. *Soil Science*, **2013**, 178, 568-584	0.9	9
35	Comparing the weathering of soil and sedimentary palygorskite in the rhizosphere zone. *Applied Clay Science*, **2011**, 54, 235-241	5.2	9
34	Pleistocene dynamics of dust accumulation and soil formation in the southern Caspian Lowlands - New insights from the loess-paleosol sequence at Neka-Abelou, northern Iran. *Quaternary Science Reviews*, **2021**, 253, 106774	3.9	8
33	Major Soils, Properties, and Classification. *World Soils Book Series*, **2018**, 93-147	0.7	7
32	Discrimination of sand dunes and loess deposits using grain-size analysis in northeastern Iran. *Arabian Journal of Geosciences*, **2017**, 10, 1	1.8	7
31	Weathering and soils formation on different parent materials in Golestan Province, Northern Iran. *Journal of Mountain Science*, **2016**, 13, 870-881	2.1	7
30	Timing and development of sand dunes in the Golestan Province, northern Iran□mplications for the Late-Pleistocene history of the Caspian Sea. *Aeolian Research*, **2019**, 41, 100538	3.9	6
29	Geochemistry of soils derived from selected sedimentary parent rocks in Kopet Dagh, North East Iran. *Journal of Geochemical Exploration*, **2018**, 194, 52-70	3.8	6
28	Spatial variability of soil organic carbon in different hillslope positions in Toshan area, Golestan Province, Iran: Geostatistical approaches. *Journal of Mountain Science*, **2015**, 12, 1422-1433	2.1	6
27	Clay mineralogy of the Jurassic-tertiary sedimentary rocks of the Kopet Dagh Basin (Northeastern Iran): Implications for paleoclimate and sedimentary environment. *Acta Geodynamica Et Geomaterialia*, **2015**, 387-398	1	6
26	Experimental micropedology□ technique for investigating soil carbonate biogenesis along a desert-grassland-forest transect, New Mexico, USA .. *Spanish Journal of Soil Science*,4,		6
25	Effect of biocrusts on profile distribution of soil water content and salinity at different stages of evaporation. *Journal of Arid Environments*, **2021**, 191, 104514	2.5	6
24	Holocene Moisture Variations in Western Arid Central Asia Inferred From Loess Records From NE Iran. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2019GC008616	3.6	5
23	Micromorphology and quality attributes of the loess derived soils affected by land use change: A case study in Ghapan watershed, Northern Iran. *Journal of Mountain Science*, **2009**, 6, 197-204	2.1	5
22	Constraining the timing of palaeosol development in Iranian arid environments using OSL dating. *Quaternary Geochronology*, **2019**, 49, 92-100	2.7	5
21	Development and magnetic properties of loess-derived forest soils along a precipitation gradient in northern Iran. *Journal of Mountain Science*, **2019**, 16, 1848-1868	2.1	4
20	Investigating soil magnetic properties with pedogenic variation along a precipitation gradient in loess-derived soils of the Golestan province, northern Iran. *Quaternary International*, **2020**, 552, 100-110	2	4
19	Effects of environmental factors on classification of loessderived soils and clay minerals variations, northern Iran. *Journal of Mountain Science*, **2018**, 15, 976-991	2.1	4

18	Biocrust islands enhance infiltration, and reduce runoff and sediment yield on a heavily salinized dryland soil. *Geoderma*, **2021**, 404, 115329	6.7	4
17	Soil-Forming Factors and Processes. *World Soils Book Series*, **2018**, 73-91	0.7	3
16	Morphology and Micromorphology of Paddy Soils under Different Soil Moisture Regime and Ground Water Table in Mazandaran Province, Northern Iran, Amol. *International Journal of Soil Science*, **2008**, 3, 149-156	0.2	3
15	Pedogenic carbonates archive modern and past precipitation change A transect study from soils and loess-paleosol sequences from northern Iran. *Quaternary International*, **2020**, 552, 79-90	2	3
14	Cadmium and lead immobilization in a calcareous contaminated soil using the cost-effective amendments. *Arabian Journal of Geosciences*, **2019**, 12, 1	1.8	3
13	Role of geomorphic surface on the above-ground biomass and soil organic carbon storage in a semi-arid region of Iranian loess plateau. *Quaternary International*, **2020**, 552, 111-121	2	3
12	Clay mineralogy and geochemistry of the Lower Pleistocene Loess in the Iranian Loess Plateau (Agh Band section) and implications for its provenance and paleoclimate change. *Quaternary International*, **2020**, 552, 91-99	2	3
11	Quartz OSL dating of loess deposits since the late glacial in the Southeast of Caspian Sea. *Quaternary International*, **2021**, 583, 39-47	2	3
10	Artificial Intelligence Statistical Analysis of Soil Respiration Improves Predictions Compared to Regression Methods. *Journal of Soil Science and Plant Nutrition*, **2021**, 21, 2242-2251	3.2	3
9	Hot desert soils Global distribution and unique characteristics. *Geoderma Regional*, **2020**, 23, e00330	2.7	2
8	Paleosols and Past Climate Change. *World Soils Book Series*, **2018**, 149-161	0.7	1
7	Paleopedology and magnetic properties of Sari loess-paleosol sequence in Caspian lowland, northern Iran. *Journal of Mountain Science*, **2019**, 16, 1559-1570	2.1	1
6	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*, **2022**, 209, 103736	4.2	1
5	Biological weathering of phlogopite during enriched vermicomposting. *Pedosphere*, **2021**, 31, 440-451	5	1
4	The formation of iron oxides and magnetic enhancement mechanisms in northern Iranian loess-paleosol sequences: Evidence from diffuse reflectance spectrophotometry and temperature dependence of magnetic susceptibility. *Quaternary International*, **2021**, 589, 68-82	2	1
3	Digital soil mapping of organic carbon at two depths in loess hilly region of Northern Iran **2022**, 467-475		1
2	Evidence for signatures of ancient microbial life in paleosols. *Scientific Reports*, **2020**, 10, 16830	4.9	0
1	The impact of precipitation on the distributions of branched tetraethers in alkaline soils. *Organic Geochemistry*, **2022**, 104410	3.1	0