

# Farhad Khormali

## List of Publications by Year in descending order

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75  
papers

1,688  
citations

331538

21  
h-index

330025

37  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of deforestation and hillslope position on soil quality attributes of loess-derived soils in Golestan province, Iran. <i>Agriculture, Ecosystems and Environment</i> , 2009, 134, 178-189.	2.5	130
2	Origin and distribution of clay minerals in calcareous arid and semi-arid soils of Fars Province, southern Iran. <i>Clay Minerals</i> , 2003, 38, 511-527.	0.2	123
3	Environmental factors controlling soil organic carbon storage in loess soils of a subhumid region, northern Iran. <i>Geoderma</i> , 2016, 281, 1-10.	2.3	97
4	Updating soil survey maps using random forest and conditioned Latin hypercube sampling in the loess derived soils of northern Iran. <i>Geoderma</i> , 2014, 232-234, 97-106.	2.3	81
5	Argillic horizon development in calcareous soils of arid and semiarid regions of southern Iran. <i>Catena</i> , 2003, 53, 273-301.	2.2	72
6	Micromorphology and development of loess-derived surface and buried soils along a precipitation gradient in Northern Iran. <i>Quaternary International</i> , 2011, 234, 109-123.	0.7	69
7	Micromorphology of calcitic features in highly calcareous soils of Fars Province, Southern Iran. <i>Geoderma</i> , 2006, 132, 31-46.	2.3	68
8	Loess-soil sequence at Toshan (Northern Iran): Insights into late Pleistocene climate change. <i>Quaternary International</i> , 2016, 399, 122-135.	0.7	52
9	Early Pleistocene climate in western arid central Asia inferred from loess-palaeosol sequences. <i>Scientific Reports</i> , 2016, 6, 20560.	1.6	45
10	Using magnetic susceptibility to discriminate between soil moisture regimes in selected loess and loess-like soils in northern Iran. <i>Journal of Applied Geophysics</i> , 2016, 127, 23-30.	0.9	43
11	Soil formation in loess-derived soils along a subhumid to humid climate gradient, Northeastern Iran. <i>Geoderma</i> , 2012, 179-180, 113-122.	2.3	40
12	Legacy soil maps as a covariate in digital soil mapping: A case study from Northern Iran. <i>Geoderma</i> , 2016, 279, 141-148.	2.3	39
13	Late Pleistocene dust dynamics and pedogenesis in Southern Eurasia – Detailed insights from the loess profile Toshan (NE Iran). <i>Quaternary Science Reviews</i> , 2018, 180, 75-95.	1.4	38
14	Grain-size distribution of Pleistocene loess deposits in northern Iran and its palaeoclimatic implications. <i>Quaternary International</i> , 2017, 429, 41-51.	0.7	35
15	Accuracy Assessment of Landform Classification Approaches on Different Spatial Scales for the Iranian Loess Plateau. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 366.	1.4	34
16	Effect of the accuracy of topographic data on improving digital soil mapping predictions with limited soil data: An application to the Iranian loess plateau. <i>Catena</i> , 2020, 195, 104810.	2.2	30
17	Biological soil crusts determine soil properties and salt dynamics under arid climatic condition in Qara Qir, Iran. <i>Science of the Total Environment</i> , 2020, 732, 139168.	3.9	28
18	Pedogenetic investigation of soil degradation on a deforested loess hillslope of Golestan Province, Northern Iran. <i>Geoderma</i> , 2011, 167-168, 274-283.	2.3	26

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19	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016, 86, 95-109.	1.0	25
20	Cyanobacterial diversity and toxicity of biocrusts from the Caspian Lowland loess deposits, North Iran. <i>Quaternary International</i> , 2017, 429, 74-85.	0.7	24
21	Clay transformation and pedogenic calcite formation on a lithosequence of igneous rocks in northwestern Iran. <i>Catena</i> , 2015, 133, 186-197.	2.2	22
22	Late Mesozoic–Cenozoic clay mineral successions of southern Iran and their palaeoclimatic implications. <i>Clay Minerals</i> , 2005, 40, 191-203.	0.2	21
23	Forms of K as a function of clay mineralogy and soil development. <i>Clay Minerals</i> , 2006, 41, 739-749.	0.2	20
24	GENESIS AND MORPHOLOGICAL CHARACTERISTICS OF MOLLISOLS FORMED IN A CATENA UNDER WATER TABLE INFLUENCE IN SOUTHERN IRAN. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 1643-1658.	0.6	19
25	Effect of canola rhizosphere and silicate dissolving bacteria on the weathering and K release from indigenous glauconite shale. <i>Biology and Fertility of Soils</i> , 2015, 51, 973-981.	2.3	19
26	Soil-parent material relationship in a mountainous arid area of Kopet Dagh basin, North East Iran. <i>Catena</i> , 2017, 152, 252-267.	2.2	19
27	Spatial Variability of Rainfed Wheat Production Under the Influence of Topography and Soil Properties in Loess-Derived Soils, Northern Iran. <i>International Journal of Plant Production</i> , 2020, 14, 597-608.	1.0	19
28	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. <i>Quaternary Science Reviews</i> , 2021, 253, 106774.	1.4	19
29	Relationships of barley biomass and grain yields to soil properties within a field in the arid region: Use of factor analysis. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 107-117.	0.3	18
30	Rhizosphere-induced weathering of minerals in loess-derived soils of Golestan Province, Iran. <i>Geoderma Regional</i> , 2015, 5, 34-43.	0.9	18
31	Climatic significance of the stable carbon isotopic composition of surface soils in northern Iran and its application to an Early Pleistocene loess section. <i>Organic Geochemistry</i> , 2019, 127, 104-114.	0.9	17
32	Quaternary sediment sources and loess transport pathways in the Black Sea - Caspian Sea region identified by detrital zircon U-Pb geochronology. <i>Global and Planetary Change</i> , 2022, 209, 103736.	1.6	16
33	Micromorphology of the lower Pleistocene loess in the Iranian Loess Plateau and its paleoclimatic implications. <i>Quaternary International</i> , 2017, 429, 31-40.	0.7	15
34	General Holocene warming trend in arid Central Asia indicated by soil isoprenoid tetraethers. <i>Global and Planetary Change</i> , 2022, 215, 103879.	1.6	15
35	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016, 86, 95-109.	1.0	14
36	Timing and development of sand dunes in the Golestan Province, northern Iran—Implications for the Late-Pleistocene history of the Caspian Sea. <i>Aeolian Research</i> , 2019, 41, 100538.	1.1	14

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37	Base cation dynamics in rainfall, throughfall, litterflow and soil solution under Oriental beech ( <i>Fagus orientalis</i> Lipsky) trees in northern Iran. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	14
38	Holocene Moisture Variations in Western Arid Central Asia Inferred From Loess Records From NE Iran. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008616.	1.0	14
39	Effect of Soil Moisture Regime and Rice Cultivation on Mineralogical Characteristics of Paddy Soils of Mazandaran Province, Northern Iran, Amol. <i>International Journal of Soil Science</i> , 2008, 3, 138-148.	0.7	14
40	Mineralogy and Characteristics of Soils Developed on Persian Gulf and Oman Sea Basin, Southern Iran. <i>Soil Science</i> , 2013, 178, 568-584.	0.9	13
41	Biomarkers in modern and buried soils of semi-desert and forest ecosystems of northern Iran. <i>Quaternary International</i> , 2017, 429, 62-73.	0.7	12
42	Pedogenic carbonates archive modern and past precipitation change – A transect study from soils and loess-paleosol sequences from northern Iran. <i>Quaternary International</i> , 2020, 552, 79-90.	0.7	12
43	Biocrust islands enhance infiltration, and reduce runoff and sediment yield on a heavily salinized dryland soil. <i>Geoderma</i> , 2021, 404, 115329.	2.3	12
44	Spatial variability of soil organic carbon in different hillslope positions in Toshan area, Golestan Province, Iran: Geostatistical approaches. <i>Journal of Mountain Science</i> , 2015, 12, 1422-1433.	0.8	11
45	Weathering and soils formation on different parent materials in Golestan Province, Northern Iran. <i>Journal of Mountain Science</i> , 2016, 13, 870-881.	0.8	11
46	Major Soils, Properties, and Classification. <i>World Soils Book Series</i> , 2018, , 93-147.	0.1	11
47	Investigating soil magnetic properties with pedogenic variation along a precipitation gradient in loess-derived soils of the Golestan province, northern Iran. <i>Quaternary International</i> , 2020, 552, 100-110.	0.7	11
48	Effect of biocrusts on profile distribution of soil water content and salinity at different stages of evaporation. <i>Journal of Arid Environments</i> , 2021, 191, 104514.	1.2	11
49	Discrimination of sand dunes and loess deposits using grain-size analysis in northeastern Iran. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	10
50	Development and magnetic properties of loess-derived forest soils along a precipitation gradient in northern Iran. <i>Journal of Mountain Science</i> , 2019, 16, 1848-1868.	0.8	10
51	Micromorphology and quality attributes of the loess derived soils affected by land use change: A case study in Ghapan watershed, Northern Iran. <i>Journal of Mountain Science</i> , 2009, 6, 197-204.	0.8	9
52	Comparing the weathering of soil and sedimentary palygorskite in the rhizosphere zone. <i>Applied Clay Science</i> , 2011, 54, 235-241.	2.6	9
53	Clay mineralogy and geochemistry of the Lower Pleistocene Loess in the Iranian Loess Plateau (Agh) Tj ETQq1 1 0.784314 rgBT /Overl 2020, 552, 91-99.	0.7	9
54	Geochemistry of soils derived from selected sedimentary parent rocks in Kopet Dagh, North East Iran. <i>Journal of Geochemical Exploration</i> , 2018, 194, 52-70.	1.5	8

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55	Constraining the timing of palaeosol development in Iranian arid environments using OSL dating. <i>Quaternary Geochronology</i> , 2019, 49, 92-100.	0.6	8
56	Hot desert soilsâ€™ Global distribution and unique characteristics. <i>Geoderma Regional</i> , 2020, 23, e00330.	0.9	8
57	Evidence for signatures of ancient microbial life in paleosols. <i>Scientific Reports</i> , 2020, 10, 16830.	1.6	8
58	The impact of precipitation on the distributions of branched tetraethers in alkaline soils. <i>Organic Geochemistry</i> , 2022, 169, 104410.	0.9	8
59	Role of geomorphic surface on the above-ground biomass and soil organic carbon storage in a semi-arid region of Iranian loess plateau. <i>Quaternary International</i> , 2020, 552, 111-121.	0.7	7
60	Morphology and Micromorphology of Paddy Soils under Different Soil Moisture Regime and Ground Water Table in Mazandaran Province, Northern Iran, Amol. <i>International Journal of Soil Science</i> , 2008, 3, 149-156.	0.7	7
61	Clay mineralogy of the Jurassic-tertiary sedimentary rocks of the Kopet Dagh Basin (Northeastern) Tj ETQq1 1 0.784314 rgBT /Overlooked. <i>Journal of Earth System Science</i> , 2015, , 387-398.	0.3	6
62	Experimental micropedologyâ€™A technique for investigating soil carbonate biogenesis along a desert-grassland-forest transect, New Mexico, USA .. <i>Spanish Journal of Soil Science</i> , 0, 4, .	0.0	6
63	Late Pleistocene Climate and Dust Source From the Mobarakabad Loessâ€™Paleosol Sequence, Northern Foothills of the Alborz Mountains, Northern Iran. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	6
64	Cadmium and lead immobilization in a calcareous contaminated soil using the cost-effective amendments. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	5
65	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. <i>Quaternary International</i> , 2021, 589, 68-82.	0.7	5
66	Artificial Intelligence Statistical Analysis of Soil Respiration Improves Predictions Compared to Regression Methods. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2242-2251.	1.7	5
67	Effects of environmental factors on classification of loess-derived soils and clay minerals variations, northern Iran. <i>Journal of Mountain Science</i> , 2018, 15, 976-991.	0.8	4
68	Paleopedology and magnetic properties of Sari loess-paleosol sequence in Caspian lowland, northern Iran. <i>Journal of Mountain Science</i> , 2019, 16, 1559-1570.	0.8	4
69	Soil-Forming Factors and Processes. <i>World Soils Book Series</i> , 2018, , 73-91.	0.1	3
70	Quartz OSL dating of loess deposits since the late glacial in the Southeast of Caspian Sea. <i>Quaternary International</i> , 2021, 583, 39-47.	0.7	3
71	Biological weathering of phlogopite during enriched vermicomposting. <i>Pedosphere</i> , 2021, 31, 440-451.	2.1	2
72	Late Pleistoceneâ€™Holocene pedogenesis and palaeoclimate in western Asia from palaeosols of the Central Iranian Plateau. <i>Boreas</i> , 0, , .	1.2	2

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73	Digital soil mapping of organic carbon at two depths in loess hilly region of Northern Iran. , 2022, , 467-475.		2
74	Paleosols and Past Climate Change. World Soils Book Series, 2018, , 149-161.	0.1	1
75	A GEOCHEMICAL INVESTIGATION OF PADDY (P) AND NON-PADDY (NP) SOILS ON A CATENA: A CASE STUDY OF CHAEMSHAHR IN MAZANDARAN PROVINCE, IRAN. Applied Ecology and Environmental Research, 2018, 16, 2487-2501.	0.2	0