

Shamsollah Ayoubi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4528641/shamsollah-ayoubi-publications-by-citations.pdf>

Version: 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

2,627
citations

31
h-index

46
g-index

110
ext. papers

3,345
ext. citations

3.2
avg, IF

5.79
L-index

#	Paper	IF	Citations
108	Soil aggregation and organic carbon as affected by topography and land use change in western Iran. <i>Soil and Tillage Research</i> , 2012 , 121, 18-26	6.5	123
107	Relationships between magnetic susceptibility and heavy metals in urban topsoils in the arid region of Isfahan, central Iran. <i>Journal of Applied Geophysics</i> , 2011 , 74, 1-7	1.7	108
106	Digital mapping of soil properties using multiple machine learning in a semi-arid region, central Iran. <i>Geoderma</i> , 2019 , 338, 445-452	6.7	108
105	Spatial Distribution of Magnetic Properties and Selected Heavy Metals in Calcareous Soils as Affected by Land Use in the Isfahan Region, Central Iran. <i>Pedosphere</i> , 2012 , 22, 33-47	5	101
104	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	5.7	96
103	Comparing the efficiency of digital and conventional soil mapping to predict soil types in a semi-arid region in Iran. <i>Geomorphology</i> , 2017 , 285, 186-204	4.3	72
102	Environmental factors controlling soil organic carbon storage in loess soils of a subhumid region, northern Iran. <i>Geoderma</i> , 2016 , 281, 1-10	6.7	65
101	Spatial prediction of USDA- great soil groups in the arid Zarand region, Iran: comparing logistic regression approaches to predict diagnostic horizons and soil types. <i>European Journal of Soil Science</i> , 2012 , 63, 284-298	3.4	64
100	Soil redistribution rate and its relationship with soil organic carbon and total nitrogen using ¹³⁷ Cs technique in a cultivated complex hillslope in western Iran. <i>Journal of Environmental Radioactivity</i> , 2010 , 101, 606-14	2.4	61
99	Estimating wet soil aggregate stability from easily available properties in a highly mountainous watershed. <i>Catena</i> , 2013 , 111, 72-79	5.8	59
98	Use of magnetic measures to assess soil redistribution following deforestation in hilly region. <i>Journal of Applied Geophysics</i> , 2011 , 75, 227-236	1.7	55
97	Spatial prediction of soil great groups by boosted regression trees using a limited point dataset in an arid region, southeastern Iran. <i>Geoderma</i> , 2014 , 232-234, 148-163	6.7	54
96	Vertical and horizontal distribution of magnetic susceptibility and metal contents in an industrial district of central Iran. <i>Journal of Applied Geophysics</i> , 2013 , 96, 55-66	1.7	52
95	Conventional and digital soil mapping in Iran: Past, present, and future. <i>Catena</i> , 2020 , 188, 104424	5.8	51
94	Seasonal and spatial variations in dust deposition rate and concentrations of dust-borne heavy metals, a case study from Isfahan, central Iran. <i>Atmospheric Pollution Research</i> , 2017 , 8, 686-699	4.5	50
93	Soil organic carbon pools in particle-size fractions as affected by slope gradient and land use change in hilly regions, western Iran. <i>Journal of Mountain Science</i> , 2012 , 9, 87-95	2.1	46
92	Erodibility of calcareous soils as influenced by land use and intrinsic soil properties in a semiarid region of central Iran. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 192	3.1	45

91	Contribution of Lithologic and Anthropogenic Factors to Surface Soil Heavy Metals in Western Iran Using Multivariate Geostatistical Analyses. <i>Soil and Sediment Contamination</i> , 2011 , 20, 921-937	3.2	43
90	Relationships of ¹³⁷ Cs inventory with magnetic measures of calcareous soils of hilly region in Iran. <i>Journal of Environmental Radioactivity</i> , 2012 , 112, 45-51	2.4	42
89	Selection of a taxonomic level for soil mapping using diversity and map purity indices: A case study from an Iranian arid region. <i>Geomorphology</i> , 2013 , 201, 86-97	4.3	41
88	Magnetic susceptibility and Cs-137 inventory variability as influenced by land use change and slope positions in a hilly, semiarid region of west-central Iran. <i>Journal of Applied Geophysics</i> , 2013 , 89, 68-75	1.7	41
87	Relationships between soil depth and terrain attributes in a semi arid hilly region in western Iran. <i>Journal of Mountain Science</i> , 2013 , 10, 163-172	2.1	41
86	Near-saturated soil hydraulic properties as influenced by land use management systems in Koohrang region of central Zagros, Iran. <i>Geoderma</i> , 2014 , 213, 426-434	6.7	40
85	Impacts of geology and land use on magnetic susceptibility and selected heavy metals in surface soils of Mashhad plain, northeastern Iran. <i>Journal of Applied Geophysics</i> , 2017 , 138, 127-134	1.7	39
84	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	1.7	35
83	Biomonitoring of atmospheric heavy metals pollution using dust deposited on date palm leaves in southwestern Iran. <i>Atmosfera</i> , 2016 , 29, 141	2.5	35
82	Soil formation in loess-derived soils along a subhumid to humid climate gradient, Northeastern Iran. <i>Geoderma</i> , 2012 , 179-180, 113-122	6.7	34
81	Digital mapping of soil organic carbon using ensemble learning model in Mollisols of Hyrcanian forests, northern Iran. <i>Geoderma Regional</i> , 2020 , 20, e00256	2.7	33
80	Prediction of Soil Enzymes Activity by Digital Terrain Analysis: Comparing Artificial Neural Network and Multiple Linear Regression Models. <i>Environmental Engineering Science</i> , 2012 , 29, 798-806	2	33
79	Soil shear strength prediction using intelligent systems: artificial neural networks and an adaptive neuro-fuzzy inference system. <i>Soil Science and Plant Nutrition</i> , 2012 , 58, 149-160	1.6	33
78	Comparing multivariate regression and artificial neural network to predict barley production from soil characteristics in northern Iran. <i>Archives of Agronomy and Soil Science</i> , 2011 , 57, 549-565	2	31
77	Prediction of soil surface salinity in arid region of central Iran using auxiliary variables and genetic programming. <i>Arid Land Research and Management</i> , 2016 , 30, 49-64	1.8	28
76	Lithogenic and anthropogenic impacts on soil surface magnetic susceptibility in an arid region of Central Iran. <i>Archives of Agronomy and Soil Science</i> , 2014 , 60, 1467-1483	2	28
75	ANN-based pedotransfer and soil spatial prediction functions for predicting Atterberg consistency limits and indices from easily available properties at the watershed scale in western Iran. <i>Soil Use and Management</i> , 2015 , 31, 142-154	3.1	27
74	Soil drainage assessment by magnetic susceptibility measures in western Iran. <i>Geoderma Regional</i> , 2018 , 13, 35-42	2.7	26

73	Soil organic carbon stock as affected by land use/cover changes in the humid region of northern Iran. <i>Journal of Mountain Science</i> , 2014 , 11, 507-518	2.1	26
72	Pasture degradation effects on soil quality indicators at different hillslope positions in a semiarid region of western Iran. <i>Environmental Earth Sciences</i> , 2014 , 71, 375-381	2.9	26
71	The extrapolation of soil great groups using multinomial logistic regression at regional scale in arid regions of Iran. <i>Geoderma</i> , 2018 , 315, 36-48	6.7	26
70	Multiple linear modeling between soil properties, magnetic susceptibility and heavy metals in various land uses. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 579-589	3.2	25
69	Soil microbial communities affected by vegetation, topography and soil properties in a forest ecosystem. <i>Applied Soil Ecology</i> , 2020 , 149, 103514	5	24
68	Particle Size Distribution of Heavy Metals and Magnetic Susceptibility in an Industrial Site. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 100, 708-714	2.7	23
67	Predicting soil organic carbon density using auxiliary environmental variables in northern Iran. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 375-393	2	23
66	Digital mapping of soil invertebrates using environmental attributes in a deciduous forest ecosystem. <i>Geoderma</i> , 2019 , 353, 252-263	6.7	22
65	Impacts of land use on soil organic matter and degree of compactness in calcareous soils of central Iran. <i>Soil Use and Management</i> , 2014 , 30, 2-9	3.1	22
64	Pedotransfer functions for predicting heavy metals in natural soils using magnetic measures and soil properties. <i>Journal of Geochemical Exploration</i> , 2019 , 197, 212-219	3.8	22
63	Disaggregating and updating a legacy soil map using DSMART, fuzzy c-means and k-means clustering algorithms in Central Iran. <i>Geoderma</i> , 2019 , 340, 249-258	6.7	21
62	Use of magnetic susceptibility to assess metals concentration in soils developed on a range of parent materials. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 168, 138-145	7	21
61	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016 , 86, 95-109	1.9	20
60	Magnetic susceptibility and morphological characteristics of a loess-paleosol sequence in northeastern Iran. <i>Catena</i> , 2013 , 101, 56-60	5.8	19
59	Determining the spatial distribution of soil properties using the environmental covariates and multivariate statistical analysis: a case study in semi-arid regions of Iran. <i>Journal of Arid Land</i> , 2019 , 11, 551-566	2.2	18
58	Clay transformation and pedogenic calcite formation on a lithosequence of igneous rocks in northwestern Iran. <i>Catena</i> , 2015 , 133, 186-197	5.8	18
57	A wind tunnel experiment to investigate the effect of polyvinyl acetate, biochar, and bentonite on wind erosion control. <i>Archives of Agronomy and Soil Science</i> , 2019 , 65, 1049-1062	2	18
56	Carbonates and organic matter in soils characterized by reflected energy from 3500-5000 nm wavelength. <i>Journal of Mountain Science</i> , 2020 , 17, 1636-1651	2.1	17

55	Forms of K as a function of clay mineralogy and soil development. <i>Clay Minerals</i> , 2006 , 41, 739-749	1.3	17
54	Mass balance of major elements in relation to weathering in soils developed on igneous rocks in a semiarid region, northwestern Iran. <i>Journal of Mountain Science</i> , 2012 , 9, 41-58	2.1	16
53	Soil-parent material relationship in a mountainous arid area of Kopet Dagh basin, North East Iran. <i>Catena</i> , 2017 , 152, 252-267	5.8	15
52	Improving the spatial prediction of soil organic carbon using environmental covariates selection: A comparison of a group of environmental covariates. <i>Catena</i> , 2022 , 208, 105723	5.8	15
51	Spatial variability of some soil shrinkage indices in hilly calcareous region of western Iran. <i>Soil and Tillage Research</i> , 2015 , 150, 180-191	6.5	14
50	High resolution middle eastern soil attributes mapping via open data and cloud computing. <i>Geoderma</i> , 2021 , 385, 114890	6.7	14
49	Relationships of soil shrinkage parameters and indices with intrinsic soil properties and environmental variables in calcareous soils. <i>Geoderma</i> , 2016 , 277, 23-34	6.7	14
48	Soil organic carbon physical fractions and aggregate stability influenced by land use in humid region of northern Iran. <i>International Agrophysics</i> , 2020 , 34, 343-353	2	13
47	Effects of tree species composition on soil properties and invertebrates in a deciduous forest. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	12
46	Soil atterberg limits and consistency indices as influenced by land use and slope position in Western Iran. <i>Journal of Mountain Science</i> , 2015 , 12, 1471-1483	2.1	12
45	Iron Mineralogy and Magnetic Susceptibility of Soils Developed on Various Rocks in Western Iran. <i>Clays and Clay Minerals</i> , 2019 , 67, 217-227	2.1	12
44	Relationships between grain protein, Zn, Cu, Fe and Mn contents in wheat and soil and topographic attributes. <i>Archives of Agronomy and Soil Science</i> , 2014 , 60, 625-638	2	12
43	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	1.1	12
42	Soil great groups discrimination using magnetic susceptibility technique in a semi-arid region, central Iran. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	12
41	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016 , 86, 95-109	1.9	11
40	Predicting rainfed wheat quality and quantity by artificial neural network using terrain and soil characteristics. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2010 , 60, 341-352	1.1	11
39	Digital mapping of soil drainage using remote sensing, DEM and soil color in a semiarid region of Central Iran. <i>Geoderma Regional</i> , 2020 , 22, e00302	2.7	10
38	Using ground-penetrating radar to explore the cemented soil horizon in an arid region in Iran. <i>Near Surface Geophysics</i> , 2017 , 15, 103-110	1.6	10

37	Incorporating environmental variables, remote and proximal sensing data for digital soil mapping of USDA soil great groups. <i>International Journal of Remote Sensing</i> , 2020 , 41, 7624-7648	3.1	10
36	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	2.4	9
35	Identifying impacts of land use change on soil redistribution at different slope positions using magnetic susceptibility. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	9
34	Applying the CSM-CERES-Wheat model for rainfed wheat with specified soil characteristic in undulating area in Iran. <i>Archives of Agronomy and Soil Science</i> , 2015 , 61, 1231-1245	2	8
33	Factors Affecting the Occurrence of Palygorskite in Central Iranian Soils Developed on Tertiary Sediments. <i>Pedosphere</i> , 2013 , 23, 359-371	5	8
32	Spatial prediction of soil aggregate stability and soil organic carbon in aggregate fractions using machine learning algorithms and environmental variables. <i>Geoderma Regional</i> , 2021 , 27, e00440	2.7	8
31	Impacts of oak deforestation and rainfed cultivation on soil redistribution processes across hillslopes using ¹³⁷ Cs techniques. <i>Forest Ecosystems</i> , 2021 , 8,	3.8	8
30	Spatial variability of near-saturated soil hydraulic properties in Moghan plain, North-Western Iran. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	7
29	Weathering and soils formation on different parent materials in Golestan Province, Northern Iran. <i>Journal of Mountain Science</i> , 2016 , 13, 870-881	2.1	7
28	Using magnetic susceptibility measurements to differentiate soil drainage classes in central Iran. <i>Studia Geophysica Et Geodaetica</i> , 2019 , 63, 465-484	0.7	6
27	Integrating auxiliary data and geophysical techniques for the estimation of soil clay content using CHAID algorithm. <i>Journal of Applied Geophysics</i> , 2016 , 126, 87-97	1.7	6
26	Using magnetic susceptibility for predicting hydrocarbon pollution levels in a petroleum refinery compound in Isfahan Province, Iran. <i>Journal of Applied Geophysics</i> , 2020 , 172, 103906	1.7	6
25	Variability of Cs inventory at a reference site in west-central Iran. <i>Journal of Environmental Radioactivity</i> , 2016 , 165, 86-92	2.4	6
24	Storm dust source fingerprinting for different particle size fractions using colour and magnetic susceptibility and a Bayesian un-mixing model. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 31578-31594	5.1	5
23	Using Cesium-137 to estimate soil particle redistribution by wind in an arid region of central Iran. <i>Eurasian Journal of Soil Science</i> , 2016 , 5, 285	0.9	5
22	Predicting heavy metal contents by applying machine learning approaches and environmental covariates in west of Iran. <i>Journal of Geochemical Exploration</i> , 2022 , 233, 106921	3.8	5
21	Spatial prediction of soil surface properties in an arid region using synthetic soil image and machine learning. <i>Geocarto International</i> , 1-22	2.7	5
20	Estimation of near-saturated soil hydraulic properties using hybrid genetic algorithm-artificial neural network. <i>Ecohydrology and Hydrobiology</i> , 2020 , 20, 437-449	2.8	5

19	Magnetic susceptibility of Entisols and Aridisols great groups in southeastern Iran. <i>Geoderma Regional</i> , 2019 , 16, e00202	2.7	4
18	Efficacy of magnetic susceptibility technique to estimate metal concentration in some igneous rocks. <i>Modeling Earth Systems and Environment</i> , 2019 , 5, 1743-1750	3.2	4
17	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	2.1	4
16	An exploratory study on the use of different composite magnetic and colour fingerprints in aeolian sediment provenance fingerprinting. <i>Catena</i> , 2021 , 200, 105182	5.8	4
15	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	2.1	4
14	The Brazilian Soil Spectral Service (BraSpecS): A User-Friendly System for Global Soil Spectra Communication. <i>Remote Sensing</i> , 2022 , 14, 740	5	3
13	Ground Observations and Environmental Covariates Integration for Mapping of Soil Salinity: A Machine Learning-Based Approach. <i>Remote Sensing</i> , 2021 , 13, 4825	5	3
12	Soil erosion and properties as affected by fire and time after fire events in steep rangelands using ¹³⁷ Cs technique. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	3
11	Use of post-stratification in composite sampling for estimating mean. <i>Environmental and Ecological Statistics</i> , 2011 , 18, 535-542	2.2	2
10	Quantification of some intrinsic soil properties using proximal sensing in arid lands: Application of Vis-NIR, MIR, and pXRF spectroscopy. <i>Geoderma Regional</i> , 2022 , 28, e00484	2.7	2
9	Paleopedology and magnetic properties of Sari loess-paleosol sequence in Caspian lowland, northern Iran. <i>Journal of Mountain Science</i> , 2019 , 16, 1559-1570	2.1	1
8	Chronostratigraphic distribution and genesis of palygorskite in Tertiary sediments of the Isfahan region, central Iran. <i>Clay Minerals</i> , 2012 , 47, 11-29	1.3	1
7	New Landscape Planning Concepts to Management Strategies for Developing Agricultural Regions. <i>Notulae Scientia Biologicae</i> , 2011 , 3, 51-57	0.4	1
6	Determination the Factors Explaining Variability of Physical Soil Organic Carbon Fractions using Artificial Neural Network. <i>International Journal of Soil Science</i> , 2011 , 7, 1-14	0.2	1
5	Land suitability evaluation in damghan plain for barley, using compare and conformity methods (northeast-Iran). <i>Pakistan Journal of Biological Sciences</i> , 2011 , 14, 123-7	0.8	1
4	Roots under water stress induce K release from phlogopite, bio-transforming to vermiculite. <i>Rhizosphere</i> , 2021 , 17, 100310	3.5	1
3	Assessment of Soil Redistribution Following Land Rehabilitation with an Apple Orchard in Hilly Regions of Central Iran. <i>Agronomy</i> , 2022 , 12, 451	3.6	1
2	Effects of different sources and spatial resolutions of environmental covariates on predicting soil organic carbon using machine learning in a semi-arid region of Iran. <i>Geoderma Regional</i> , 2022 , 29, e00513	2.7	1

- 1 Changes in iron mineralogy and magnetic susceptibility during crude oil incubation in four textural soils in Central Iran. *Journal of Applied Geophysics*, **2021**, 190, 104338 1.7 ○