

Shamsollah Ayoubi

List of Publications by Year in Descending Order

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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	The Brazilian Soil Spectral Service (BraSpecS): A User-Friendly System for Global Soil Spectra Communication. <i>Remote Sensing</i> , 2022 , 14, 740	5	3
107	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
106	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
105	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
104	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
103	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	3.7	1
102	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
101	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
100	Roots under water stress induce K release from phlogopite, bio-transforming to vermiculite. <i>Rhizosphere</i> , 2021 , 17, 100310	3.5	1
99	High resolution middle eastern soil attributes mapping via open data and cloud computing. <i>Geoderma</i> , 2021 , 385, 114890	6.7	14
98	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
97	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
96	Changes in iron mineralogy and magnetic susceptibility during crude oil incubation in four textural soils in Central Iran. <i>Journal of Applied Geophysics</i> , 2021 , 190, 104338	1.7	0
95	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
94	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
93	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
92	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

91	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
90	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
89	Soil microbial communities affected by vegetation, topography and soil properties in a forest ecosystem. <i>Applied Soil Ecology</i> , 2020 , 149, 103514	5	24
88	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
87	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
86	Conventional and digital soil mapping in Iran: Past, present, and future. <i>Catena</i> , 2020 , 188, 104424	5.8	51
85	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
84	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
83	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
82	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
81	Magnetic susceptibility of Entisols and Aridisols great groups in southeastern Iran. <i>Geoderma Regional</i> , 2019 , 16, e00202	2.7	4
80	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
79	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
78	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
77	Digital mapping of soil invertebrates using environmental attributes in a deciduous forest ecosystem. <i>Geoderma</i> , 2019 , 353, 252-263	6.7	22
76	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
75	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
74	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

73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	Soil drainage assessment by magnetic susceptibility measures in western Iran. <i>Geoderma Regional</i> , 2018 , 13, 35-42	2.7	26
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	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
56	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

55	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016 , 86, 95-109	1.9	11
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	Climatic interpretation of loess-paleosol sequences at Mobarakabad and Aghband, Northern Iran. <i>Quaternary Research</i> , 2016 , 86, 95-109	1.9	20
44	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
43	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
42	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
41	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
40	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
39	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
38	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

37	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
36	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
35	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
34	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
33	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
32	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
31	Factors Affecting the Occurrence of Palygorskite in Central Iranian Soils Developed on Tertiary Sediments. <i>Pedosphere</i> , 2013 , 23, 359-371	5	8
30	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
29	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
28	Magnetic susceptibility and morphological characteristics of a loess-paleosol sequence in northeastern Iran. <i>Catena</i> , 2013 , 101, 56-60	5.8	19
27	Estimating wet soil aggregate stability from easily available properties in a highly mountainous watershed. <i>Catena</i> , 2013 , 111, 72-79	5.8	59
26	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
25	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
24	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
23	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
22	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
21	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
20	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

19	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
18	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
17	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
16	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
15	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
14	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
13	New Landscape Planning Concepts to Management Strategies for Developing Agricultural Regions. <i>Notulae Scientia Biologicae</i> , 2011 , 3, 51-57	0.4	1
12	Use of post-stratification in composite sampling for estimating mean. <i>Environmental and Ecological Statistics</i> , 2011 , 18, 535-542	2.2	2
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	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}	1.1	12
2	Forms of K as a function of clay mineralogy and soil development. <i>Clay Minerals</i> , 2006 , 41, 739-749	1.3	17

- 1 Spatial prediction of soil surface properties in an arid region using synthetic soil image and machine learning. *Geocarto International*,1-22 2.7 5