Juan V Giraldez

List of Publications by Year
in descending order

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125	4,118	172457	128289
papers	citations	29 h-index	60 g-index

129	129	129	4789
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Agricultural Soil Erosion on the Global Carbon Cycle. Science, 2007, 318, 626-629.	12.6	802
2	Ephemeral gully erosion in southern Navarra (Spain). Catena, 1999, 36, 65-84.	5.0	186
3	Soil management effects on runoff, erosion and soil properties in an olive grove of Southern Spain. Soil and Tillage Research, 2009, 102, 5-13.	5.6	186
4	The influence of cover crops and tillage on water and sediment yield, and on nutrient, and organic matter losses in an olive orchard on a sandy loam soil. Soil and Tillage Research, 2009, 106, 137-144.	5.6	176
5	Impact of historical land use and soil management change on soil erosion and agricultural sustainability during the Anthropocene. Anthropocene, 2017, 17, 13-29.	3.3	156
6	Effects of Spatial Variability of Saturated Hydraulic Conductivity on Hortonian Overland Flow. Water Resources Research, 1996, 32, 671-678.	4.2	148
7	Effects of tillage method on soil physical properties, infiltration and yield in an olive orchard. Soil and Tillage Research, 1999, 52, 167-175.	5.6	138
8	Guidelines on validation procedures for meteorological data from automatic weather stations. Journal of Hydrology, 2011, 402, 144-154.	5.4	130
9	Rainfall interception by olive trees in relation to leaf area. Agricultural Water Management, 2001, 49, 65-76.	5.6	114
10	Assessing Reference Evapotranspiration by the Hargreaves Method in Southern Spain. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 184-191.	1.0	100
11	Soil erosion control, plant diversity, and arthropod communities under heterogeneous cover crops in an olive orchard. Environmental Science and Pollution Research, 2018, 25, 977-989.	5.3	78
12	Experimental assessment of runoff and soil erosion in an olive grove on a Vertic soil in southern Spain as affected by soil management. Soil Use and Management, 2004, 20, 426-431.	4.9	73
13	Agronomic effects of bovine manure: A review of long-term European field experiments. European Journal of Agronomy, 2017, 90, 127-138.	4.1	59
14	Rainfall concentration under olive trees. Agricultural Water Management, 2002, 55, 53-70.	5.6	57
15	Controls on soil carbon storage from topography and vegetation in a rocky, semi-arid landscapes. Geoderma, 2018, 311, 159-166.	5.1	57
16	Applying a simple methodology to assess historical soil erosion in olive orchards. Geomorphology, 2010, 114, 294-302.	2.6	53
17	A General Soil Volume Change Equation: I. The Two-Parameter Model. Soil Science Society of America Journal, 1983, 47, 419-422.	2.2	50
18	Nonhydrostatic granular flow over 3-D terrain: New Boussinesq-type gravity waves?. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1-28.	2.8	48

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19	European longâ€term field experiments: knowledge gained about alternative management practices. Soil Use and Management, 2018, 34, 167-176.	4.9	48
20	Soil Loss and Runoff Reduction in Olive-Tree Dry-Farming with Cover Crops. Soil Science Society of America Journal, 2013, 77, 2140-2148.	2.2	47
21	Apparent electrical conductivity measurements in an olive orchard under wet and dry soil conditions: significance for clay and soil water content mapping. Precision Agriculture, 2016, 17, 531-545.	6.0	45
22	Fieldâ€Scale Soil Moisture Pattern Mapping using Electromagnetic Induction. Vadose Zone Journal, 2010, 9, 871-881.	2.2	44
23	Efficiency of four different seeded plants and native vegetation as cover crops in the control of soil and carbon losses by water erosion in olive orchards. Land Degradation and Development, 2018, 29, 2278-2290.	3.9	43
24	Intra and inter-annual variability of runoff and sediment yield of an olive micro-catchment with soil protection by natural ground cover in Southern Spain. Geoderma, 2013, 206, 49-62.	5.1	40
25	An assessment of policies affecting Sustainable Soil Management in Europe and selected member states. Land Use Policy, 2017, 66, 241-249.	5.6	39
26	Evaluation of a gully headcut retreat model using multitemporal aerial photographs and digital elevation models. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2159-2173.	2.8	36
27	Analysis of sources of variability of runoff volume in a 40 plot experiment using a numerical model. Journal of Hydrology, 2001, 248, 183-197.	5.4	34
28	Evaluation of a combined drought indicator and its potential for agricultural drought prediction in southern Spain. Natural Hazards and Earth System Sciences, 2020, 20, 21-33.	3.6	32
29	Analysis of Infiltration and Runoff in an Olive Orchard under Noâ€Till. Soil Science Society of America Journal, 2001, 65, 291-299.	2.2	30
30	Comments on â€œIs soil erosion in olive groves as bad as often claimed?â€• by L. Fleskens and L. Stroosnijder. Geoderma, 2008, 147, 93-95.	5.1	30
31	Evaluation of infiltration measurements under olive trees in CÃ³rdoba. Soil and Tillage Research, 1998, 48, 303-315.	5.6	29
32	Thermodynamic Stability and The Law of Corresponding States in Swelling Soils. Soil Science Society of America Journal, 1976, 40, 352-358.	2.2	27
33	A process-based model for channel degradation: application to ephemeral gully erosion. Catena, 2003, 50, 435-447.	5.0	27
34	Exploring the role of topography in small channel erosion. Earth Surface Processes and Landforms, 2005, 30, 591-599.	2.5	27
35	Long-term effect of tillage on phosphorus forms and sorption in a Vertisol of southern Spain. European Journal of Agronomy, 2006, 25, 264-269.	4.1	27
36	Water harvesting strategies in the semiarid climate of southeastern Spain. Agricultural Water Management, 1988, 14, 253-263.	5.6	26

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37	Reconstructing long-term gully dynamics in Mediterranean agricultural areas. Hydrology and Earth System Sciences, 2017, 21, 235-249.	4.9	26
38	The description of soil erosion through a kinematic wave model. Journal of Hydrology, 1993, 145, 65-82.	5.4	25
39	Spatial Estimation of Reference Evapotranspiration in Andalusia, Spain. Journal of Hydrometeorology, 2008, 9, 242-255.	1.9	25
40	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. Water Resources Research, 2005, 41, .	4.2	23
41	Testing the relationship between instantaneous peak flow and mean daily flow in a Mediterranean Area Southeast Spain. Catena, 2008, 75, 129-137.	5.0	23
42	Concurrent temporal stability of the apparent electrical conductivity and soil water content. Journal of Hydrology, 2017, 544, 319-326.	5.4	23
43	Infiltration in Swelling Soils. Water Resources Research, 1985, 21, 33-44.	4.2	22
44	Higher order critical flow condition in curved streamline flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 849-853.	1.7	19
45	Assessment of Spatial Variability in Water Erosion Rates in an Olive Orchard at Plot Scale using a Magnetic Iron Oxide Tracer. Soil Science Society of America Journal, 2013, 77, 350-361.	2.2	19
46	A General Soil Volume Change Equation: II. Effect of Load Pressure. Soil Science Society of America Journal, 1983, 47, 422-425.	2.2	18
47	Furrow irrigation erosion and management. Irrigation Science, 2004, 23, 123-131.	2.8	18
48	Soil Water-Holding Capacity Assessment in Terms of the Average Annual Water Balance in Southern Spain. Vadose Zone Journal, 2005, 4, 317-328.	2.2	18
49	LONG-TERM INFLUENCE OF CONSERVATION TILLAGE ON CHEMICAL PROPERTIES OF SURFACE HORIZON AND LEGUME CROPS YIELD IN A VERTISOL OF SOUTHERN SPAIN. Soil Science, 2007, 172, 141-148.	0.9	18
50	Temporal and Spatial Monitoring of the pH and Heavy Metals in a Soil Polluted by Mine Spill. Post Cleaning Effects. Water, Air, and Soil Pollution, 2007, 178, 229-243.	2.4	18
51	Study of sediment movement in an irrigated maizeâ€“cotton system combining rainfall simulations, sediment tracers and soil erosion models. Journal of Hydrology, 2015, 524, 227-242.	5.4	18
52	Spatial and temporal variability of spontaneous grass cover and its influence on sediment losses in an extensive olive orchard catchment. Catena, 2017, 157, 58-66.	5.0	18
53	Critical Flow over Circular Crested Weirs. Journal of Hydraulic Engineering, 2008, 134, 1661-1664.	1.5	17
54	Estimating Topsoil Water Content of Clay Soils With Data From Time-Lapse Electrical Conductivity Surveys. Soil Science, 2012, 177, 369-376.	0.9	17

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55	Is the von KÃ¡rmÃ¡n constant affected by sediment suspension?. Journal of Geophysical Research, 2012, 117, .	3.3	17
56	Potential to predict depthâ€specific soilâ€“water content beneath an olive tree using electromagnetic conductivity imaging. Soil Use and Management, 2018, 34, 236-248.	4.9	17
57	Rainfall variability and hydrological and erosive response of an olive tree microcatchment under noâ€tillage with a spontaneous grass cover in Spain. Earth Surface Processes and Landforms, 2010, 35, 750-760.	2.5	16
58	A new quality control procedure based on non-linear autoregressive neural network for validating raw river stage data. Journal of Hydrology, 2014, 510, 103-109.	5.4	16
59	Mapping impaired olive tree development using electromagnetic induction surveys. Plant and Soil, 2014, 384, 381-400.	3.7	16
60	Temporal stability of electrical conductivity in a sandy soil. International Agrophysics, 2016, 30, 349-357.	1.7	16
61	Description of the seasonal pattern in ozone concentration time series by using the strange attractor multifractal formalism. Environmental Monitoring and Assessment, 2010, 160, 229-236.	2.7	15
62	A method for estimating soil water diffusivity from moisture profiles and its application across an experimental catchment. Journal of Hydrology, 2014, 516, 161-168.	5.4	15
63	Experimental Analyses of the Evaporation Dynamics in Bare Soils under Natural Conditions. Water Resources Management, 2018, 32, 1153-1166.	3.9	15
64	Bioturbation and erosion rates along the soilâ€hillslope conveyor belt, part 2: Quantification using an analytical solution of the diffusionâ€“advection equation. Earth Surface Processes and Landforms, 2019, 44, 2066-2080.	2.5	15
65	Secondâ€order twoâ€dimensional solution for the drainage of recharge based on Picard's iteration technique: A generalized Dupuitâ€Forchheimer equation. Water Resources Research, 2012, 48, .	4.2	14
66	The Theoretical Interpretation of Field Observations of Soil Swelling Through a Material Coordinate Transformation. Soil Science Society of America Journal, 1976, 40, 208-211.	2.2	12
67	Monte-Carlo Simulation of Noninteracting Solute Transport in a Spatially Heterogeneous Soil. Soil Science Society of America Journal, 1985, 49, 562-568.	2.2	12
68	Suspended load and bed load in irrigation furrows. Catena, 2005, 64, 232-246.	5.0	12
69	Maximum Depression Storage and Surface Drainage Network in Uneven Agricultural Landforms. Biosystems Engineering, 2006, 95, 281-293.	4.3	12
70	Mapping Residual Pyrite after a Mine Spill Using Non Co-Located Spatiotemporal Observations. Journal of Environmental Quality, 2006, 35, 21-36.	2.0	11
71	Analysis of soil moisture dynamics beneath olive trees. Hydrological Processes, 2016, 30, 4339-4352.	2.6	11
72	The role of olive trees in rainfall erosivity and runoff and sediment yield in the soil beneath. Hydrology and Earth System Sciences, 2000, 4, 141-153.	4.9	10

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73	Numerical Study of the Natural Airflow in Greenhouses using a Two-dimensional Lattice Model. Biosystems Engineering, 2005, 91, 219-228.	4.3	10
74	Evaluation of linear and nonlinear sediment transport equations using hillslope morphology. Catena, 2005, 64, 272-280.	5.0	10
75	Spatiotemporal Evolution of Soil pH and Zinc after the AznalcÃ³llar Mine Spill. Journal of Environmental Quality, 2006, 35, 37-49.	2.0	10
76	The influence of the geometry of idealised porous media on the simulated flow velocity: A multifractal description. Geoderma, 2009, 150, 196-201.	5.1	10
77	The effect of fragmentation on the distribution of hillslope rock size and abundance: Insights from contrasting field and model data. Geoderma, 2019, 352, 228-240.	5.1	10
78	Water Related Properties to Assess Soil Quality in Two Olive Orchards of South Spain under Different Management Strategies. Water (Switzerland), 2019, 11, 367.	2.7	10
79	Steady-state water table height estimations with an improved pseudo-two-dimensional Dupuit-Forchheimer type model. Journal of Hydrology, 2012, 438-439, 194-202.	5.4	9
80	Estimation of the role of obstacles in the downslope soil flow with a simple erosion model: the analytical solution and its approximation with the lattice Boltzmann model. Catena, 2004, 57, 261-275.	5.0	8
81	Modelling the effects of emergent vegetation on an open-channel flow using a lattice model. International Journal for Numerical Methods in Fluids, 2007, 55, 655-672.	1.6	8
82	Critical flow over spillway profiles. Water Management, 2008, 161, 89-95.	1.2	8
83	Energy and momentum under critical flow conditions. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 844-848.	1.7	8
84	Hydrological Signatures Based on Event Runoff Coefficients in Rural Catchments of the Iberian Peninsula. Soil Science, 2017, 182, 159-171.	0.9	8
85	Water Retention and Preferential States of Soil Moisture in a Cultivated Vertisol. Soil Science Society of America Journal, 2017, 81, 1-9.	2.2	8
86	Assessing the Best Gap-Filling Technique for River Stage Data Suitable for Low Capacity Processors and Real-Time Application Using IoT. Sensors, 2020, 20, 6354.	3.8	8
87	Copper and zinc adsorption by sewage sludgeâ€treated soil in southern Spain. Communications in Soil Science and Plant Analysis, 1999, 30, 1063-1079.	1.4	7
88	Simulation of Tracer Dispersion in Porous Media Using Lattice Boltzmann and Random Walk Models. Vadose Zone Journal, 2005, 4, 310-316.	2.2	7
89	Transcritical Flow due to Channel Contraction. Journal of Hydraulic Engineering, 2008, 134, 492-496.	1.5	7
90	Impact of Climate Change on Agricultural Droughts in Spain. Water (Switzerland), 2020, 12, 3214.	2.7	7

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91	Moisture profiles during steady vertical flows in swelling soils. Water Resources Research, 1978, 14, 314-318.	4.2	6
92	Multifractal analysis of flow velocity simulated with the lattice model approach in idealized threeâ€dimensional porous media. Water Resources Research, 2007, 43, .	4.2	6
93	A computer application for teaching and learning approximation and interpolation algorithms of curves. Computer Applications in Engineering Education, 2011, 19, 40-47.	3.4	6
94	Concurrent variability of soil moisture and apparent electrical conductivity in the proximity of olive trees. Agricultural Water Management, 2021, 245, 106652.	5.6	6
95	A description of water and sediment flow in the presence of obstacles with a two-dimensional, lattice BGK-cellular automata model. Water Resources Research, 2003, 39, .	4.2	5
96	Description of pollutant dispersion in an urban street canyon using a two-dimensional lattice model. Atmospheric Environment, 2007, 41, 221-226.	4.1	5
97	Simulation of longâ€term soil redistribution by tillage using a cellular automata model. Earth Surface Processes and Landforms, 2010, 35, 761-770.	2.5	5
98	Comparative analysis of a geomorphologyâ€based instantaneous unit hydrograph in small mountainous watersheds. Hydrological Processes, 2012, 26, 2909-2924.	2.6	5
99	Second-order shallow flow equation for anisotropic aquifers. Journal of Hydrology, 2013, 501, 183-185.	5.4	5
100	Water retention and field soil water states in a vertisol under Longâ€Term direct drill and conventional tillage. European Journal of Soil Science, 2021, 72, 667-678.	3.9	5
101	Use of Referential Coordinates in Deforming Soils. Soil Science Society of America Journal, 1989, 53, 1338-1343.	2.2	4
102	The geometric characterization of mouldboard plough surfaces by using splines. Soil and Tillage Research, 2011, 112, 98-105.	5.6	4
103	Ã‰loge de la MÃ©thode: A Tribute to Garrison Sposito on the Occasion of His Retirement. Frontiers in Environmental Science, 2016, 4, .	3.3	4
104	Evaluation of Drought Stress in Cereal through Probabilistic Modelling of Soil Moisture Dynamics. Water (Switzerland), 2020, 12, 2592.	2.7	4
105	Climate and Land Use Change Effects on Sediment Production in a Dry Tropical Forest Catchment. Water (Switzerland), 2021, 13, 2233.	2.7	4
106	Hydrology and its role in water engineering. IngenierÃa Del Agua, 2014, 18, 1.	0.4	4
107	Incorporating topologic properties into the geomorphologic instantaneous unit hydrograph. Physics and Chemistry of the Earth, 1999, 24, 55-58.	0.3	3
108	Description of sorbing tracers transport in fractured media using the lattice model approach. Journal of Contaminant Hydrology, 2005, 81, 187-204.	3.3	3

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109	Evaluating a general sediment transport model for linear incisions under field conditions. Earth Surface Processes and Landforms, 2009, 34, 1852-1857.	2.5	3
110	Water management in an ancestral irrigation system in southern Spain: a simulation analysis. Irrigation Science, 2016, 34, 343-360.	2.8	3
111	A Linux cluster of personal computers for the numerical simulation of natural airflows in greenhouses using a lattice model. Computers and Electronics in Agriculture, 2006, 52, 79-89.	7.7	2
112	An educational computer tool for simulating longâ€term soil erosion on agricultural landscapes. Computer Applications in Engineering Education, 2009, 17, 253-262.	3.4	2
113	Critical Depth Relationships in Developing Open-Channel Flow. Journal of Hydraulic Engineering, 2010, 136, 175-178.	1.5	2
114	Energy and momentum under critical flow conditions. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 844.	1.7	2
115	Reply [to â€œComment on â€˜Analytical integration of the kinematic equation for runoff on a plane under constant rainfall rate and Smith and Parlange infiltrationâ€™ by J. V. Girfildez and D. A. Woolhiserâ€]. Water Resources Research, 2000, 36, 827-827.	4.2	1
116	Modification of the thermal regime of soil-plant systems under nonwoven polypropylene and external conditions. Journal of Horticultural Science and Biotechnology, 2001, 76, 216-223.	1.9	1
117	Exploring the effects of the vegetation on passive tracer transport by using the multifractal analysis. Geoderma, 2010, 160, 126-130.	5.1	1
118	Field Water Capacity. Encyclopedia of Earth Sciences Series, 2011, , 299-300.	0.1	1
119	Higher order critical flow condition in curved streamline flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 849.	1.7	1
120	Multifractal analysis of passive tracer transport in simulated skimming and wake interference flows. Physics of Fluids, 2007, 19, .	4.0	0
121	Numerical Study of the Transition Regime between the Skimming and Wake Interference Flows in a Water Flume by Using the Lattice-Model Approach. Journal of Hydraulic Engineering, 2008, 134, 274-279.	1.5	0
122	Closure to â€œTranscritical Flow due to Channel Contractionâ€•by O. Castro-Orgaz, J. V. GirÃ¡ldez, and J. L. Ayuso. Journal of Hydraulic Engineering, 2009, 135, 1115-1116.	1.5	0
123	Nonhydrostatic free surface flows by Oscar Castro-Orgaz and Willi Hager. Environmental Fluid Mechanics, 2019, 19, 1043-1044.	1.6	0
124	Editorial for the special issue on â€œAdvances in soil scaling: Theories, techniques and applicationsâ€• European Journal of Soil Science, 2021, 72, 491-494.	3.9	0
125	Determination of Environmental Flows for the Barbuda Stream in the Municipality of Olaya, Antioquia, Colombia. Revista Facultad De IngenierÃa, 2019, , .	0.5	0