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	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
2	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
3	Concurrent variability of soil moisture and apparent electrical conductivity in the proximity of olive trees. Agricultural Water Management, 2021, 245, 106652.	5.6	6
4	Climate and Land Use Change Effects on Sediment Production in a Dry Tropical Forest Catchment. Water (Switzerland), 2021, 13, 2233.	2.7	4
5	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
6	Evaluation of Drought Stress in Cereal through Probabilistic Modelling of Soil Moisture Dynamics. Water (Switzerland), 2020, 12, 2592.	2.7	4
7	Impact of Climate Change on Agricultural Droughts in Spain. Water (Switzerland), 2020, 12, 3214.	2.7	7
8	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
9	Nonhydrostatic free surface flows by Oscar Castro-Orgaz and Willi Hager. Environmental Fluid Mechanics, 2019, 19, 1043-1044.	1.6	0
10	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
11	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
12	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
13	Determination of Environmental Flows for the Barbuda Stream in the Municipality of Olaya, Antioquia, Colombia. Revista Facultad De IngenierÃa, 2019, , .	0.5	0
14	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
15	Experimental Analyses of the Evaporation Dynamics in Bare Soils under Natural Conditions. Water Resources Management, 2018, 32, 1153-1166.	3.9	15
16	Controls on soil carbon storage from topography and vegetation in a rocky, semi-arid landscapes. Geoderma, 2018, 311, 159-166.	5.1	57
17	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
18	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

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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	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
21	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
22	Hydrological Signatures Based on Event Runoff Coefficients in Rural Catchments of the Iberian Peninsula. Soil Science, 2017, 182, 159-171.	0.9	8
23	Agronomic effects of bovine manure: A review of long-term European field experiments. European Journal of Agronomy, 2017, 90, 127-138.	4.1	59
24	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
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	Concurrent temporal stability of the apparent electrical conductivity and soil water content. Journal of Hydrology, 2017, 544, 319-326.	5.4	23
27	Reconstructing long-term gully dynamics in Mediterranean agricultural areas. Hydrology and Earth System Sciences, 2017, 21, 235-249.	4.9	26
28	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
29	Analysis of soil moisture dynamics beneath olive trees. Hydrological Processes, 2016, 30, 4339-4352.	2.6	11
30	Water management in an ancestral irrigation system in southern Spain: a simulation analysis. Irrigation Science, 2016, 34, 343-360.	2.8	3
31	Temporal stability of electrical conductivity in a sandy soil. International Agrophysics, 2016, 30, 349-357.	1.7	16
32	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
33	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
34	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
35	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
36	Mapping impaired olive tree development using electromagnetic induction surveys. Plant and Soil, 2014, 384, 381-400.	3.7	16

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37	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
38	Hydrology and its role in water engineering. IngenierÃa Del Agua, 2014, 18, 1.	0.4	4
39	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
40	Second-order shallow flow equation for anisotropic aquifers. Journal of Hydrology, 2013, 501, 183-185.	5.4	5
41	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
42	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
43	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
44	Estimating Topsoil Water Content of Clay Soils With Data From Time-Lapse Electrical Conductivity Surveys. Soil Science, 2012, 177, 369-376.	0.9	17
45	Is the von KÃ¡rmÃ¡n constant affected by sediment suspension?. Journal of Geophysical Research, 2012, 117, .	3.3	17
46	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
47	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
48	Comparative analysis of a geomorphologyâ€based instantaneous unit hydrograph in small mountainous watersheds. Hydrological Processes, 2012, 26, 2909-2924.	2.6	5
49	Guidelines on validation procedures for meteorological data from automatic weather stations. Journal of Hydrology, 2011, 402, 144-154.	5.4	130
50	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
51	The geometric characterization of mouldboard plough surfaces by using splines. Soil and Tillage Research, 2011, 112, 98-105.	5.6	4
52	Field Water Capacity. Encyclopedia of Earth Sciences Series, 2011, , 299-300.	0.1	1
53	Fieldâ€Scale Soil Moisture Pattern Mapping using Electromagnetic Induction. Vadose Zone Journal, 2010, 9, 871-881.	2.2	44
54	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

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55	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
56	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
57	Critical Depth Relationships in Developing Open-Channel Flow. Journal of Hydraulic Engineering, 2010, 136, 175-178.	1.5	2
58	Exploring the effects of the vegetation on passive tracer transport by using the multifractal analysis. Geoderma, 2010, 160, 126-130.	5.1	1
59	Applying a simple methodology to assess historical soil erosion in olive orchards. Geomorphology, 2010, 114, 294-302.	2.6	53
60	Evaluating a general sediment transport model for linear incisions under field conditions. Earth Surface Processes and Landforms, 2009, 34, 1852-1857.	2.5	3
61	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
62	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
63	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
64	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
65	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
66	Higher order critical flow condition in curved streamline flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 849-853.	1.7	19
67	Critical flow over spillway profiles. Water Management, 2008, 161, 89-95.	1.2	8
68	Transcritical Flow due to Channel Contraction. Journal of Hydraulic Engineering, 2008, 134, 492-496.	1.5	7
69	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
70	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
71	Critical Flow over Circular Crested Weirs. Journal of Hydraulic Engineering, 2008, 134, 1661-1664.	1.5	17
72	Energy and momentum under critical flow conditions. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 844-848.	1.7	8

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73	Spatial Estimation of Reference Evapotranspiration in Andalusia, Spain. Journal of Hydrometeorology, 2008, 9, 242-255.	1.9	25
74	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
75	Energy and momentum under critical flow conditions. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 844.	1.7	2
76	Higher order critical flow condition in curved streamline flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 849.	1.7	1
77	Multifractal analysis of passive tracer transport in simulated skimming and wake interference flows. Physics of Fluids, 2007, 19, .	4.0	0
78	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
79	The Impact of Agricultural Soil Erosion on the Global Carbon Cycle. Science, 2007, 318, 626-629.	12.6	802
80	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
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	Description of pollutant dispersion in an urban street canyon using a two-dimensional lattice model. Atmospheric Environment, 2007, 41, 221-226.	4.1	5
83	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
84	Spatiotemporal Evolution of Soil pH and Zinc after the AznalcÃ³llar Mine Spill. Journal of Environmental Quality, 2006, 35, 37-49.	2.0	10
85	Mapping Residual Pyrite after a Mine Spill Using Non Co-Located Spatiotemporal Observations. Journal of Environmental Quality, 2006, 35, 21-36.	2.0	11
86	Maximum Depression Storage and Surface Drainage Network in Uneven Agricultural Landforms. Biosystems Engineering, 2006, 95, 281-293.	4.3	12
87	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
88	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
89	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
90	Numerical Study of the Natural Airflow in Greenhouses using a Two-dimensional Lattice Model. Biosystems Engineering, 2005, 91, 219-228.	4.3	10

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91	Description of sorbing tracers transport in fractured media using the lattice model approach. Journal of Contaminant Hydrology, 2005, 81, 187-204.	3.3	3
92	Exploring the role of topography in small channel erosion. Earth Surface Processes and Landforms, 2005, 30, 591-599.	2.5	27
93	Simulation of Tracer Dispersion in Porous Media Using Lattice Boltzmann and Random Walk Models. Vadose Zone Journal, 2005, 4, 310-316.	2.2	7
94	Suspended load and bed load in irrigation furrows. Catena, 2005, 64, 232-246.	5.0	12
95	Evaluation of linear and nonlinear sediment transport equations using hillslope morphology. Catena, 2005, 64, 272-280.	5.0	10
96	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. Water Resources Research, 2005, 41, .	4.2	23
97	Furrow irrigation erosion and management. Irrigation Science, 2004, 23, 123-131.	2.8	18
98	Assessing Reference Evapotranspiration by the Hargreaves Method in Southern Spain. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 184-191.	1.0	100
99	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
100	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
101	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
102	A process-based model for channel degradation: application to ephemeral gully erosion. Catena, 2003, 50, 435-447.	5.0	27
103	Rainfall concentration under olive trees. Agricultural Water Management, 2002, 55, 53-70.	5.6	57
104	Rainfall interception by olive trees in relation to leaf area. Agricultural Water Management, 2001, 49, 65-76.	5.6	114
105	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
106	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
107	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
108	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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109	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
110	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
111	Incorporating topologic properties into the geomorphologic instantaneous unit hydrograph. Physics and Chemistry of the Earth, 1999, 24, 55-58.	0.3	3
112	Ephemeral gully erosion in southern Navarra (Spain). Catena, 1999, 36, 65-84.	5.0	186
113	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
114	Evaluation of infiltration measurements under olive trees in CÃ³rdoba. Soil and Tillage Research, 1998, 48, 303-315.	5.6	29
115	Effects of Spatial Variability of Saturated Hydraulic Conductivity on Hortonian Overland Flow. Water Resources Research, 1996, 32, 671-678.	4.2	148
116	The description of soil erosion through a kinematic wave model. Journal of Hydrology, 1993, 145, 65-82.	5.4	25
117	Use of Referential Coordinates in Deforming Soils. Soil Science Society of America Journal, 1989, 53, 1338-1343.	2.2	4
118	Water harvesting strategies in the semiarid climate of southeastern Spain. Agricultural Water Management, 1988, 14, 253-263.	5.6	26
119	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
120	Infiltration in Swelling Soils. Water Resources Research, 1985, 21, 33-44.	4.2	22
121	A General Soil Volume Change Equation: I. The Two-Parameter Model. Soil Science Society of America Journal, 1983, 47, 419-422.	2.2	50
122	A General Soil Volume Change Equation: II. Effect of Load Pressure. Soil Science Society of America Journal, 1983, 47, 422-425.	2.2	18
123	Moisture profiles during steady vertical flows in swelling soils. Water Resources Research, 1978, 14, 314-318.	4.2	6
124	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
125	Thermodynamic Stability and The Law of Corresponding States in Swelling Soils. Soil Science Society of America Journal, 1976, 40, 352-358.	2.2	27