

# Juan V Giraldez

## List of Publications by Citations

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122  
papers

3,287  
citations

28  
h-index

54  
g-index

129  
ext. papers

3,689  
ext. citations

4.2  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
122	The impact of agricultural soil erosion on the global carbon cycle. <i>Science</i> , <b>2007</b> , 318, 626-9	33.3	658
121	Ephemeral gully erosion in southern Navarra (Spain). <i>Catena</i> , <b>1999</b> , 36, 65-84	5.8	153
120	Soil management effects on runoff, erosion and soil properties in an olive grove of Southern Spain. <i>Soil and Tillage Research</i> , <b>2009</b> , 102, 5-13	6.5	149
119	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. <i>Soil and Tillage Research</i> , <b>2009</b> , 106, 137-144	6.5	137
118	Effects of Spatial Variability of Saturated Hydraulic Conductivity on Hortonian Overland Flow. <i>Water Resources Research</i> , <b>1996</b> , 32, 671-678	5.4	133
117	Effects of tillage method on soil physical properties, infiltration and yield in an olive orchard. <i>Soil and Tillage Research</i> , <b>1999</b> , 52, 167-175	6.5	122
116	Impact of historical land use and soil management change on soil erosion and agricultural sustainability during the Anthropocene. <i>Anthropocene</i> , <b>2017</b> , 17, 13-29	3.9	111
115	Guidelines on validation procedures for meteorological data from automatic weather stations. <i>Journal of Hydrology</i> , <b>2011</b> , 402, 144-154	6	103
114	Assessing Reference Evapotranspiration by the Hargreaves Method in Southern Spain. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2004</b> , 130, 184-191	1.1	85
113	Rainfall interception by olive trees in relation to leaf area. <i>Agricultural Water Management</i> , <b>2001</b> , 49, 65-76	5.9	82
112	Experimental assessment of runoff and soil erosion in an olive grove on a Vertic soil in southern Spain as affected by soil management. <i>Soil Use and Management</i> , <b>2004</b> , 20, 426-431	3.1	71
111	Rainfall concentration under olive trees. <i>Agricultural Water Management</i> , <b>2002</b> , 55, 53-70	5.9	54
110	Soil erosion control, plant diversity, and arthropod communities under heterogeneous cover crops in an olive orchard. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 977-989	5.1	48
109	A General Soil Volume Change Equation: I. The Two-Parameter Model. <i>Soil Science Society of America Journal</i> , <b>1983</b> , 47, 419-422	2.5	42
108	Applying a simple methodology to assess historical soil erosion in olive orchards. <i>Geomorphology</i> , <b>2010</b> , 114, 294-302	4.3	41
107	Nonhydrostatic granular flow over 3-D terrain: New Boussinesq-type gravity waves?. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2015</b> , 120, 1-28	3.8	40
106	Agronomic effects of bovine manure: A review of long-term European field experiments. <i>European Journal of Agronomy</i> , <b>2017</b> , 90, 127-138	5	39

105	Controls on soil carbon storage from topography and vegetation in a rocky, semi-arid landscapes. <i>Geoderma</i> , <b>2018</b> , 311, 159-166	6.7	38
104	Field-Scale Soil Moisture Pattern Mapping using Electromagnetic Induction. <i>Vadose Zone Journal</i> , <b>2010</b> , 9, 871-881	2.7	35
103	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. <i>Geoderma</i> , <b>2013</b> , 206, 49-62	6.7	33
102	An assessment of policies affecting Sustainable Soil Management in Europe and selected member states. <i>Land Use Policy</i> , <b>2017</b> , 66, 241-249	5.6	33
101	Soil Loss and Runoff Reduction in Olive-Tree Dry-Farming with Cover Crops. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 2140-2148	2.5	31
100	European long-term field experiments: knowledge gained about alternative management practices. <i>Soil Use and Management</i> , <b>2018</b> , 34, 167-176	3.1	31
99	Evaluation of a gully headcut retreat model using multitemporal aerial photographs and digital elevation models. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 2159-2173	3.8	30
98	Analysis of sources of variability of runoff volume in a 40 plot experiment using a numerical model. <i>Journal of Hydrology</i> , <b>2001</b> , 248, 183-197	6	30
97	Apparent electrical conductivity measurements in an olive orchard under wet and dry soil conditions: significance for clay and soil water content mapping. <i>Precision Agriculture</i> , <b>2016</b> , 17, 531-545	5.6	29
96	Comments on <b>Is soil erosion in olive groves as bad as often claimed?</b> by L. Fleskens and L. Stroosnijder. <i>Geoderma</i> , <b>2008</b> , 147, 93-95	6.7	29
95	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. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 2278-2290	4.4	29
94	Long-term effect of tillage on phosphorus forms and sorption in a Vertisol of southern Spain. <i>European Journal of Agronomy</i> , <b>2006</b> , 25, 264-269	5	27
93	Evaluation of infiltration measurements under olive trees in Córdoba. <i>Soil and Tillage Research</i> , <b>1998</b> , 48, 303-315	6.5	25
92	Thermodynamic Stability and The Law of Corresponding States in Swelling Soils. <i>Soil Science Society of America Journal</i> , <b>1976</b> , 40, 352-358	2.5	25
91	A process-based model for channel degradation: application to ephemeral gully erosion. <i>Catena</i> , <b>2003</b> , 50, 435-447	5.8	24
90	Analysis of Infiltration and Runoff in an Olive Orchard under No-Till. <i>Soil Science Society of America Journal</i> , <b>2001</b> , 65, 291-299	2.5	24
89	The description of soil erosion through a kinematic wave model. <i>Journal of Hydrology</i> , <b>1993</b> , 145, 65-82	6	24
88	Exploring the role of topography in small channel erosion. <i>Earth Surface Processes and Landforms</i> , <b>2005</b> , 30, 591-599	3.7	23

87	Concurrent temporal stability of the apparent electrical conductivity and soil water content. <i>Journal of Hydrology</i> , <b>2017</b> , 544, 319-326	6	21
86	Testing the relationship between instantaneous peak flow and mean daily flow in a Mediterranean Area Southeast Spain. <i>Catena</i> , <b>2008</b> , 75, 129-137	5.8	20
85	Infiltration in Swelling Soils. <i>Water Resources Research</i> , <b>1985</b> , 21, 33-44	5.4	20
84	Water harvesting strategies in the semiarid climate of southeastern Spain. <i>Agricultural Water Management</i> , <b>1988</b> , 14, 253-263	5.9	19
83	Higher order critical flow condition in curved streamline flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2008</b> , 46, 849-853	1.9	18
82	LONG-TERM INFLUENCE OF CONSERVATION TILLAGE ON CHEMICAL PROPERTIES OF SURFACE HORIZON AND LEGUME CROPS YIELD IN A VERTISOL OF SOUTHERN SPAIN. <i>Soil Science</i> , <b>2007</b> , 172, 141-148	9.9	18
81	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	18
80	A General Soil Volume Change Equation: II. Effect of Load Pressure. <i>Soil Science Society of America Journal</i> , <b>1983</b> , 47, 422-425	2.5	18
79	Soil Water-Holding Capacity Assessment in Terms of the Average Annual Water Balance in Southern Spain. <i>Vadose Zone Journal</i> , <b>2005</b> , 4, 317-328	2.7	17
78	Assessment of Spatial Variability in Water Erosion Rates in an Olive Orchard at Plot Scale using a Magnetic Iron Oxide Tracer. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 350-361	2.5	16
77	Spatial Estimation of Reference Evapotranspiration in Andalusia, Spain. <i>Journal of Hydrometeorology</i> , <b>2008</b> , 9, 242-255	3.7	16
76	Furrow irrigation erosion and management. <i>Irrigation Science</i> , <b>2004</b> , 23, 123-131	3.1	16
75	Evaluation of a combined drought indicator and its potential for agricultural drought prediction in southern Spain. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 21-33	3.9	16
74	Critical Flow over Circular Crested Weirs. <i>Journal of Hydraulic Engineering</i> , <b>2008</b> , 134, 1661-1664	1.8	15
73	Temporal and Spatial Monitoring of the pH and Heavy Metals in a Soil Polluted by Mine Spill. Post Cleaning Effects. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 178, 229-243	2.6	15
72	Reconstructing long-term gully dynamics in Mediterranean agricultural areas. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 235-249	5.5	14
71	Temporal stability of electrical conductivity in a sandy soil. <i>International Agrophysics</i> , <b>2016</b> , 30, 349-357	2	14
70	A new quality control procedure based on non-linear autoregressive neural network for validating raw river stage data. <i>Journal of Hydrology</i> , <b>2014</b> , 510, 103-109	6	14

69	Estimating Topsoil Water Content of Clay Soils With Data From Time-Lapse Electrical Conductivity Surveys. <i>Soil Science</i> , <b>2012</b> , 177, 369-376	0.9	14
68	Description of the seasonal pattern in ozone concentration time series by using the strange attractor multifractal formalism. <i>Environmental Monitoring and Assessment</i> , <b>2010</b> , 160, 229-36	3.1	14
67	Potential to predict depth-specific soil water content beneath an olive tree using electromagnetic conductivity imaging. <i>Soil Use and Management</i> , <b>2018</b> , 34, 236-248	3.1	13
66	Spatial and temporal variability of spontaneous grass cover and its influence on sediment losses in an extensive olive orchard catchment. <i>Catena</i> , <b>2017</b> , 157, 58-66	5.8	12
65	Bioturbation and erosion rates along the soil-hillslope conveyor belt, part 2: Quantification using an analytical solution of the diffusion-advection equation. <i>Earth Surface Processes and Landforms</i> , <b>2019</b> , 44, 2066-2080	3.7	12
64	Study of sediment movement in an irrigated maize-bottom system combining rainfall simulations, sediment tracers and soil erosion models. <i>Journal of Hydrology</i> , <b>2015</b> , 524, 227-242	6	12
63	Is the von K $\ddot{u}$ m $\ddot{u}$ constant affected by sediment suspension?. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		12
62	Experimental Analyses of the Evaporation Dynamics in Bare Soils under Natural Conditions. <i>Water Resources Management</i> , <b>2018</b> , 32, 1153-1166	3.7	11
61	Mapping impaired olive tree development using electromagnetic induction surveys. <i>Plant and Soil</i> , <b>2014</b> , 384, 381-400	4.2	11
60	Second-order two-dimensional solution for the drainage of recharge based on Picard's iteration technique: A generalized Dupuit-Forchheimer equation. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	11
59	Suspended load and bed load in irrigation furrows. <i>Catena</i> , <b>2005</b> , 64, 232-246	5.8	11
58	Rainfall variability and hydrological and erosive response of an olive tree microcatchment under no-tillage with a spontaneous grass cover in Spain. <i>Earth Surface Processes and Landforms</i> , <b>2010</b> , 35, n/a-n/a	3.7	10
57	Numerical Study of the Natural Airflow in Greenhouses using a Two-dimensional Lattice Model. <i>Biosystems Engineering</i> , <b>2005</b> , 91, 219-228	4.8	10
56	Monte-Carlo Simulation of Noninteracting Solute Transport in a Spatially Heterogeneous Soil. <i>Soil Science Society of America Journal</i> , <b>1985</b> , 49, 562-568	2.5	10
55	The Theoretical Interpretation of Field Observations of Soil Swelling Through a Material Coordinate Transformation. <i>Soil Science Society of America Journal</i> , <b>1976</b> , 40, 208-211	2.5	10
54	A method for estimating soil water diffusivity from moisture profiles and its application across an experimental catchment. <i>Journal of Hydrology</i> , <b>2014</b> , 516, 161-168	6	9
53	Spatiotemporal evolution of soil pH and zinc after the Aznalcollar mine spill. <i>Journal of Environmental Quality</i> , <b>2006</b> , 35, 37-49	3.4	9
52	Mapping residual pyrite after a mine spill using non co-located spatiotemporal observations. <i>Journal of Environmental Quality</i> , <b>2006</b> , 35, 21-36	3.4	9

51	Maximum Depression Storage and Surface Drainage Network in Uneven Agricultural Landforms. <i>Biosystems Engineering</i> , <b>2006</b> , 95, 281-293	4.8	9
50	Water Related Properties to Assess Soil Quality in Two Olive Orchards of South Spain under Different Management Strategies. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 367	3	8
49	Hydrological Signatures Based on Event Runoff Coefficients in Rural Catchments of the Iberian Peninsula. <i>Soil Science</i> , <b>2017</b> , 182, 159-171	0.9	8
48	The influence of the geometry of idealised porous media on the simulated flow velocity: A multifractal description. <i>Geoderma</i> , <b>2009</b> , 150, 196-201	6.7	8
47	Modelling the effects of emergent vegetation on an open-channel flow using a lattice model. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 55, 655-672	1.9	8
46	The role of olive trees in rainfall erosivity and runoff and sediment yield in the soil beneath. <i>Hydrology and Earth System Sciences</i> , <b>2000</b> , 4, 141-153	5.5	8
45	Analysis of soil moisture dynamics beneath olive trees. <i>Hydrological Processes</i> , <b>2016</b> , 30, 4339	3.3	8
44	Water Retention and Preferential States of Soil Moisture in a Cultivated Vertisol. <i>Soil Science Society of America Journal</i> , <b>2017</b> , 81, 1-9	2.5	7
43	Critical flow over spillway profiles. <i>Water Management</i> , <b>2008</b> , 161, 89-95	1	7
42	Transcritical Flow due to Channel Contraction. <i>Journal of Hydraulic Engineering</i> , <b>2008</b> , 134, 492-496	1.8	7
41	Evaluation of linear and nonlinear sediment transport equations using hillslope morphology. <i>Catena</i> , <b>2005</b> , 64, 272-280	5.8	7
40	Copper and zinc adsorption by sewage sludge-treated soil in southern Spain. <i>Communications in Soil Science and Plant Analysis</i> , <b>1999</b> , 30, 1063-1079	1.5	7
39	The effect of fragmentation on the distribution of hillslope rock size and abundance: Insights from contrasting field and model data. <i>Geoderma</i> , <b>2019</b> , 352, 228-240	6.7	6
38	Steady-state water table height estimations with an improved pseudo-two-dimensional Dupuit-Forchheimer type model. <i>Journal of Hydrology</i> , <b>2012</b> , 438-439, 194-202	6	6
37	Moisture profiles during steady vertical flows in swelling soils. <i>Water Resources Research</i> , <b>1978</b> , 14, 314-318	3.18	6
36	Comparative analysis of a geomorphology-based instantaneous unit hydrograph in small mountainous watersheds. <i>Hydrological Processes</i> , <b>2012</b> , 26, 2909-2924	3.3	5
35	Second-order shallow flow equation for anisotropic aquifers. <i>Journal of Hydrology</i> , <b>2013</b> , 501, 183-185	6	5
34	A computer application for teaching and learning approximation and interpolation algorithms of curves. <i>Computer Applications in Engineering Education</i> , <b>2011</b> , 19, 40-47	1.6	5

33	Description of pollutant dispersion in an urban street canyon using a two-dimensional lattice model. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 221-226	5.3	5
32	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. <i>Catena</i> , <b>2004</b> , 57, 261-275	5.8	5
31	Simulation of Tracer Dispersion in Porous Media Using Lattice Boltzmann and Random Walk Models. <i>Vadose Zone Journal</i> , <b>2005</b> , 4, 310-316	2.7	5
30	The geometric characterization of mouldboard plough surfaces by using splines. <i>Soil and Tillage Research</i> , <b>2011</b> , 112, 98-105	6.5	4
29	Energy and momentum under critical flow conditions. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2008</b> , 46, 844-848	1.9	4
28	Multifractal analysis of flow velocity simulated with the lattice model approach in idealized three-dimensional porous media. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	4
27	Use of Referential Coordinates in Deforming Soils. <i>Soil Science Society of America Journal</i> , <b>1989</b> , 53, 1338-1343	2.5	4
26	Assessing the Best Gap-Filling Technique for River Stage Data Suitable for Low Capacity Processors and Real-Time Application Using IoT. <i>Sensors</i> , <b>2020</b> , 20,	3.8	4
25	A description of water and sediment flow in the presence of obstacles with a two-dimensional, lattice BGK-cellular automata model. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	3
24	Incorporating topologic properties into the geomorphologic instantaneous unit hydrograph. <i>Physics and Chemistry of the Earth</i> , <b>1999</b> , 24, 55-58		3
23	Hydrology and its role in water engineering. <i>Ingeniería Del Agua</i> , <b>2014</b> , 18, 1	0.7	3
22	Objet de la Méthode: A Tribute to Garrison Sposito on the Occasion of His Retirement. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	3
21	Evaluating a general sediment transport model for linear incisions under field conditions. <i>Earth Surface Processes and Landforms</i> , <b>2009</b> , 34, 1852-1857	3.7	2
20	An educational computer tool for simulating long-term soil erosion on agricultural landscapes. <i>Computer Applications in Engineering Education</i> , <b>2009</b> , 17, 253-262	1.6	2
19	A Linux cluster of personal computers for the numerical simulation of natural airflows in greenhouses using a lattice model. <i>Computers and Electronics in Agriculture</i> , <b>2006</b> , 52, 79-89	6.5	2
18	Energy and momentum under critical flow conditions		2
17	Evaluation of Drought Stress in Cereal through Probabilistic Modelling of Soil Moisture Dynamics. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2592	3	2
16	Water management in an ancestral irrigation system in southern Spain: a simulation analysis. <i>Irrigation Science</i> , <b>2016</b> , 34, 343-360	3.1	2



15	Concurrent variability of soil moisture and apparent electrical conductivity in the proximity of olive trees. <i>Agricultural Water Management</i> , <b>2021</b> , 245, 106652	5.9	2
14	Exploring the effects of the vegetation on passive tracer transport by using the multifractal analysis. <i>Geoderma</i> , <b>2010</b> , 160, 126-130	6.7	1
13	Simulation of long-term soil redistribution by tillage using a cellular automata model. <i>Earth Surface Processes and Landforms</i> , <b>2010</b> , 35, n/a-n/a	3.7	1
12	Description of sorbing tracers transport in fractured media using the lattice model approach. <i>Journal of Contaminant Hydrology</i> , <b>2005</b> , 81, 187-204	3.9	1
11	Impact of Climate Change on Agricultural Droughts in Spain. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3214	3	1
10	Climate and Land Use Change Effects on Sediment Production in a Dry Tropical Forest Catchment. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2233	3	1
9	Higher order critical flow condition in curved streamline flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2008</b> , 46, 849	1.9	1
8	Reply [to Comment on Analytical integration of the kinematic equation for runoff on a plane under constant rainfall rate and Smith and Parlange infiltration] by J. V. Giraldez and D. A. Woolhiser. <i>Water Resources Research</i> , <b>2000</b> , 36, 827-827	5.4	0
7	Water retention and field soil water states in a vertisol under Long-Term direct drill and conventional tillage. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 667-678	3.4	0
6	Nonhydrostatic free surface flows by Oscar Castro-Orgaz and Willi Hager. <i>Environmental Fluid Mechanics</i> , <b>2019</b> , 19, 1043-1044	2.2	
5	Critical Depth Relationships in Developing Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , <b>2010</b> , 136, 175-178	1.8	
4	Closure to Transcritical Flow due to Channel Contraction by O. Castro-Orgaz, J. V. Giraldez, and J. L. Ayuso. <i>Journal of Hydraulic Engineering</i> , <b>2009</b> , 135, 1115-1116	1.8	
3	Numerical Study of the Transition Regime between the Skimming and Wake Interference Flows in a Water Flume by Using the Lattice-Model Approach. <i>Journal of Hydraulic Engineering</i> , <b>2008</b> , 134, 274-279	1.8	
2	Multifractal analysis of passive tracer transport in simulated skimming and wake interference flows. <i>Physics of Fluids</i> , <b>2007</b> , 19, 108106	4.4	
1	Modification of the thermal regime of soil-plant systems under nonwoven polypropylene and external conditions. <i>Journal of Horticultural Science and Biotechnology</i> , <b>2001</b> , 76, 216-223	1.9	