Yves Le Bissonnais

List of Publications by Year
in descending order

97	7,700	38720 50	51562 86
papers	citations	h-index	g-index

100	100	100	6406
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Landscaping compromises for land degradation neutrality: The case of soil erosion in a Mediterranean agricultural landscape. Journal of Environmental Management, 2019, 235, 282-292.	3.8	40
2	The effect of four calciumâ€based amendments on soil aggregate stability of two sandy topsoils. Journal of Plant Nutrition and Soil Science, 2019, 182, 159-166.	1.1	10
3	Trait-based approach for agroecology: contribution of service crop root traits to explain soil aggregate stability in vineyards. Plant and Soil, 2019, 435, 1-14.	1.8	50
4	Stakeholders' perception of the relevance of water and sediment connectivity in water and land management. Land Degradation and Development, 2018, 29, 1833-1844.	1.8	18
5	Soil aggregate stability in Mediterranean and tropical agro-ecosystems: effect of plant roots and soil characteristics. Plant and Soil, 2018, 424, 303-317.	1.8	94
6	Main Issues for Preserving Mediterranean Soil Resources From Water Erosion Under Global Change. Land Degradation and Development, 2018, 29, 789-799.	1.8	36
7	Temporal variability and time compression of sediment yield in small Mediterranean catchments: impacts for land and water management. Soil Use and Management, 2018, 34, 388-403.	2.6	16
8	Anthropogenic Reservoirs of Various Sizes Trap Most of the Sediment in the Mediterranean Maghreb Basin. Water (Switzerland), 2018, 10, 927.	1.2	10
9	Combining field monitoring and aerial imagery to evaluate the role of gully erosion in a Mediterranean catchment (Tunisia). Catena, 2018, 170, 73-83.	2.2	21
10	Spatial variability of soil aggregate stability at the scale of an agricultural region in Tunisia. Catena, 2017, 153, 157-167.	2.2	50
11	Immediate and long-term effect of tannins on the stabilization of soil aggregates. Soil Biology and Biochemistry, 2017, 105, 197-205.	4.2	24
12	A Spatiotemporal Multiscale Analysis of Runoff and Erosion in a Mediterranean Marly Catchment. Vadose Zone Journal, 2017, 16, 1-12.	1.3	10
13	Soil cracking effects on hydrological and erosive processes: a study case in Mediterranean cultivated vertisols. Hydrological Processes, 2016, 30, 4154-4167.	1.1	20
14	Relative Contribution of Rill/Interrill and Gully/Channel Erosion to Small Reservoir Siltation in Mediterranean Environments. Land Degradation and Development, 2016, 27, 785-797.	1.8	68
15	Aggregate stability and assessment of soil crustability and erodibility: I. Theory and methodology. European Journal of Soil Science, 2016, 67, 11-21.	1.8	111
16	Le Bissonnais, Y. (1996). Aggregate stability and assessment of crustability and erodibility: 1. Theory and methodology. European Journal of Soil Science, 47, 425â€“437.. European Journal of Soil Science, 2016, 67, 2-4.	1.8	6
17	Soil erosion in sloping vineyards assessed by using botanical indicators and sediment collectors in the Ruwer-Mosel valley. Agriculture, Ecosystems and Environment, 2016, 233, 158-170.	2.5	61
18	Temporal dynamics of runoff and soil loss on a plot scale under a coffee plantation on steep soil (Ultisol), Costa Rica. Journal of Hydrology, 2015, 523, 409-426.	2.3	37

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19	Land use and climate change effects on soil erosion in a semi-arid mountainous watershed (High Atlas,) Tj ETQq1 1 0.784314 rgBT /O	1.2	130
20	Evaluating the Impact of the Spatial Distribution of Land Management Practices on Water Erosion: Case Study of a Mediterranean Catchment. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	7
21	A method for modeling the effects of climate and land use changes on erosion and sustainability of soil in a Mediterranean watershed (Languedoc, France). Journal of Environmental Management, 2015, 150, 57-68.	3.8	66
22	Short-Term Dynamics of Soil Aggregate Stability in the Field. Soil Science Society of America Journal, 2014, 78, 1168-1176.	1.2	40
23	Aggregate stability of a crusted soil: differences between crust and subâ€crust material, and consequences for interrill erodibility assessment. An example from the <scp>L</scp>oess <scp>P</scp>lateau of <scp>C</scp>hina. European Journal of Soil Science, 2014, 65, 325-335.	1.8	47
24	Simulation of medium-term soil redistributions for different land use and landscape design scenarios within a vineyard landscape in Mediterranean France. Geomorphology, 2014, 214, 10-21.	1.1	24
25	MAPPING LINEAR EROSION FEATURES USING HIGH AND VERY HIGH RESOLUTION SATELLITE IMAGERY. Land Degradation and Development, 2013, 24, 22-32.	1.8	45
26	Fingerprinting sediment sources in the outlet reservoir of a hilly cultivated catchment in Tunisia. Journal of Soils and Sediments, 2013, 13, 801-815.	1.5	49
27	Improvement of surface flow network prediction for the modeling of erosion processes in agricultural landscapes. Geomorphology, 2013, 183, 120-129.	1.1	17
28	Prediction of sediment load by sediment rating curve and neural network (ANN) in El Kebir catchment, Algeria. Journal of Earth System Science, 2013, 122, 1303-1312.	0.6	36
29	Laboratory Visâ€“NIR spectroscopy as an alternative method for estimating the soil aggregate stability indexes of Mediterranean soils. Geoderma, 2013, 209-210, 86-97.	2.3	45
30	LandSoil: A model for analysing the impact of erosion on agricultural landscape evolution. Geomorphology, 2012, 175-176, 25-37.	1.1	36
31	Designing management options to reduce surface runoff and sediment yield with farmers: An experiment in south-western France. Journal of Environmental Management, 2012, 96, 74-85.	3.8	11
32	Erosion and sediment budget across scale: A case study in a catchment of the European loess belt. Journal of Hydrology, 2012, 420-421, 255-263.	2.3	79
33	Comparative sensitivity analysis of four distributed erosion models. Water Resources Research, 2011, 47, .	1.7	8
34	Effects of vegetation type on soil resistance to erosion: Relationship between aggregate stability and shear strength. Catena, 2011, 87, 60-69.	2.2	243
35	Impact of Global changes on soil vulnerability in the Mediterranean basin. , 2011, , .		3
36	Coupled simulation of surface runoff and soil water flow using multi-objective parameter estimation. Journal of Hydrology, 2011, 403, 141-156.	2.3	33

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37	Vegetated filter effects on sedimentological connectivity of agricultural catchments in erosion modelling: a review. Earth Surface Processes and Landforms, 2011, 36, 3-19.	1.2	103
38	MHYDAS-Erosion: a distributed single-storm water erosion model for agricultural catchments. Hydrological Processes, 2011, 25, 1717-1728.	1.1	25
39	Effets du travail du sol et de la gestion des rÃ©sidus sur les propriÃ©tÃ©s du sol et sur lâ€™Ã©rosion hydrique d'un Vertisol MÃ©diterranÃ©en. Canadian Journal of Soil Science, 2011, 91, 627-635.	0.5	24
40	Modelling the impact of land use change and rainfall seasonality on sediment export from an agricultural catchment of the northwestern European loess belt. Agriculture, Ecosystems and Environment, 2010, 138, 83-94.	2.5	45
41	Sensitivity analysis of distributed erosion models: Framework. Water Resources Research, 2010, 46, .	1.7	10
42	Rates and spatial variations of soil erosion in Europe: A study based on erosion plot data. Geomorphology, 2010, 122, 167-177.	1.1	561
43	A regional-scale study of multi-decennial erosion of vineyard fields using vine-stock unearthingâ€“burying measurements. Catena, 2010, 82, 159-168.	2.2	59
44	Effect of land use and management on the early stages of soil water erosion in French Mediterranean vineyards. Soil and Tillage Research, 2009, 106, 124-136.	2.6	140
45	Soil tillage and scale effects on erosion from fields to catchment in a Mediterranean vineyard area. Agriculture, Ecosystems and Environment, 2009, 134, 201-210.	2.5	76
46	Soil resistance to interrill erosion: Model parameterization and sensitivity. Catena, 2009, 77, 274-284.	2.2	44
47	Reliability of an expert-based runoff and erosion model: Application of STREAM to different environments. Catena, 2009, 78, 129-141.	2.2	31
48	Differences in aggregate stability due to various sewage sludge treatments on a Mediterranean calcareous soil. Agriculture, Ecosystems and Environment, 2008, 125, 48-56.	2.5	59
49	The PESERA coarse scale erosion model for Europe. I. â€“ Model rationale and implementation. European Journal of Soil Science, 2008, 59, 1293-1306.	1.8	188
50	Soil Aggregate Stability Improvement with Urban Composts of Different Maturities. Soil Science Society of America Journal, 2007, 71, 413-423.	1.2	204
51	Interrill erosion in the sloping lands of northern Laos subjected to shifting cultivation. Earth Surface Processes and Landforms, 2007, 32, 415-428.	1.2	45
52	Erodibility of Mediterranean vineyard soils: relevant aggregate stability methods and significant soil variables. European Journal of Soil Science, 2007, 58, 188-195.	1.8	118
53	Changes in structural stability with soil surface crusting: consequences for erodibility estimation. European Journal of Soil Science, 2007, 58, 1107-1114.	1.8	23
54	Effects of the inoculation of cyanobacteria on the microstructure and the structural stability of a tropical soil. Plant and Soil, 2007, 290, 209-219.	1.8	125

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55	Aggregate stability and microbial community dynamics under dryingâ€“wetting cycles in a silt loam soil. Soil Biology and Biochemistry, 2006, 38, 2053-2062.	4.2	260
56	Soil detachment and transport on field- and laboratory-scale interrill areas: erosion processes and the size-selectivity of eroded sediment. Earth Surface Processes and Landforms, 2006, 31, 929-939.	1.2	115
57	Soil Surface Crusting and Structure Slumping in Europe. , 2006, , 489-500.		5
58	Sheet and Rill Erosion. , 2006, , 501-513.		37
59	Pan-European Soil Erodibility Assessment. , 2006, , 685-693.		1
60	Aggregate breakdown dynamics under rainfall compared with aggregate stability measurements. European Journal of Soil Science, 2005, 56, 225-238.	1.8	141
61	An automated salt-tracing gauge for flow-velocity measurement. Earth Surface Processes and Landforms, 2005, 30, 833-844.	1.2	69
62	Splash Projection Distance for Aggregated Soils. Soil Science Society of America Journal, 2005, 69, 30.	1.2	80
63	Splash distance and size distributions for various soils. Geoderma, 2005, 124, 279-292.	2.3	127
64	Modeling response of soil erosion and runoff to changes in precipitation and cover. Catena, 2005, 61, 131-154.	2.2	581
65	Modelling the impact of agri-environmental scenarios on runoff in a cultivated catchment (Normandy, France). Catena, 2005, 61, 229-240.	2.2	44
66	Variability of soil surface characteristics influencing runoff and interrill erosion. Catena, 2005, 62, 111-124.	2.2	164
67	Microgeometrical characterisation and percolation threshold evolution of a soil crust under rainfall. Catena, 2005, 62, 173-188.	2.2	10
68	Remote-sensing data as an alternative input for the â€˜STREAMâ€™ runoff model. Catena, 2005, 62, 125-135.	2.2	22
69	Size fractions resulting from an aggregate stability test, interrill detachment and transport. Earth Surface Processes and Landforms, 2004, 29, 1117-1129.	1.2	65
70	Dynamic evolution of the unsaturated hydraulic conductivity of a developing crust. Earth Surface Processes and Landforms, 2004, 29, 1131-1142.	1.2	17
71	Scale effect on runoff from experimental plots to catchments in agricultural areas in Normandy. Journal of Hydrology, 2004, 299, 4-14.	2.3	184
72	Grass strip effects on runoff and soil loss. Agronomy for Sustainable Development, 2004, 24, 129-136.	0.8	81

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73	Grassland and crop trends: role of the European Union Common Agricultural Policy and consequences for runoff and soil erosion. Environmental Science and Policy, 2003, 6, 7-16.	2.4	62
74	Modelling ephemeral gully erosion in small cultivated catchments. Catena, 2003, 50, 489-505.	2.2	56
75	Runoff Features for Interrill Erosion at Different Rainfall Intensities, Slope Lengths, and Gradients in an Agricultural Loessial Hillslope. Soil Science Society of America Journal, 2003, 67, 844-851.	1.2	65
76	Runoff Features for Interrill Erosion at Different Rainfall Intensities, Slope Lengths, and Gradients in an Agricultural Loessial Hillslope. Soil Science Society of America Journal, 2003, 67, 844.	1.2	122
77	Incorporating soil surface crusting processes in an expert-based runoff model: Sealing and Transfer by Runoff and Erosion related to Agricultural Management. Catena, 2002, 46, 189-205.	2.2	166
78	Mapping erosion risk for cultivated soil in France. Catena, 2002, 46, 207-220.	2.2	162
79	Modelling interrill erosion in small cultivated catchments. Hydrological Processes, 2002, 16, 3215-3226.	1.1	65
80	Sediment concentration in interrill flow: interactions between soil surface conditions, vegetation and rainfall. Earth Surface Processes and Landforms, 2002, 27, 193-205.	1.2	57
81	Rill erosion on cultivated hillslopes during two extreme rainfall events in Normandy, France. Soil and Tillage Research, 2002, 67, 99-108.	2.6	98
82	Topographic dependence of aggregate stability, overland flow and sediment transport. Agronomy for Sustainable Development, 2002, 22, 489-501.	0.8	27
83	Role of a cyanobacterial cover on structural stability of sandy soils in the Sahelian part of western Niger. Geoderma, 2001, 101, 15-30.	2.3	116
84	Soil Surface Structure Effect on Isoproturon and Diflufenican Loss in Runoff. Journal of Environmental Quality, 2001, 30, 2113-2119.	1.0	20
85	The development of land quality indicators for soil degradation by water erosion. Agriculture, Ecosystems and Environment, 2000, 81, 125-135.	2.5	58
86	Crusting, runoff and sheet erosion on silty loamy soils at various scales and upscaling from m2 to small catchments. Soil and Tillage Research, 1998, 46, 69-80.	2.6	110
87	Importance of surface sealing in the erosion of some soils from a mediterranean climate. Geomorphology, 1998, 24, 79-85.	1.1	86
88	The effect of ponding depth on infiltration in a crusted surface depression. Catena, 1998, 32, 87-100.	2.2	62
89	The implications of spatial variability in surface seal hydraulic resistance for infiltration in a mound and depression microtopography. Catena, 1998, 32, 101-114.	2.2	61
90	Contribution of multi-temporal SPOT data to the mapping of a soil erosion index. The case of the loamy plateaux of northern France. Soil and Tillage Research, 1997, 10, 99-110.	0.4	27

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91	Regulation of soil structure by geophagous earthworm activities in humid savannas of CÃ´te d'Ivoire. Soil Biology and Biochemistry, 1997, 29, 431-439.	4.2	163
92	Interactions between soil properties and moisture content in crust formation, runoff and interrill erosion from tilled loess soils. Catena, 1995, 25, 33-46.	2.2	126
93	Seal Formation, Runoff, and Interrill Erosion from Seventeen California Soils. Soil Science Society of America Journal, 1993, 57, 224-229.	1.2	93
94	Crusting, Runoff, and Erosion Response to Soil Water Content and Successive Rainfalls. Soil Science Society of America Journal, 1992, 56, 1898-1903.	1.2	140
95	Laboratory experimental study of soil crusting: Relation between aggregate breakdown mechanisms and crust stucture. Catena, 1989, 16, 377-392.	2.2	122
96	Comportement d'agrÃ©gats terreux soumis Ã l'action de l'eau : analyse des mÃ©canismes de dÃ©sagrÃ©gation. Agronomy for Sustainable Development, 1988, 8, 915-924.	0.8	32
97	ASSESSMENT OF THE ARTIFICIAL NEURAL NETWORKS TO â€ŽGEOMORPHIC MODELLING OF SEDIMENT YIELD FOR â€ŽUNGAUGED CATCHMENTS, ALGERIA. Journal of Urban and Environmental Engineering, 0, , 175-185.	0.3	2