Jm SÃ¡nchez-PÃ©rez

List of Publications by Year
in descending order

140 papers	4,152 citations	81900 39 h-index	149698 56 g-index
155 all docs	155 docs citations	155 times ranked	4936 citing authors

#	Article	IF	Citations
1	Assessment of hydrology, sediment and particulate organic carbon yield in a large agricultural catchment using the SWAT model. Journal of Hydrology, 2011, 401, 145-153.	5.4	171
2	Dynamics of suspended sediment transport and yield in a large agricultural catchment, southwest France. Earth Surface Processes and Landforms, 2010, 35, 1289-1301.	2.5	142
3	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	2.2	126
4	Assessing the capability of the SWAT model to simulate snow, snow melt and streamflow dynamics over an alpine watershed. Journal of Hydrology, 2015, 531, 574-588.	5.4	121
5	Non-target effects of three formulated pesticides on microbially-mediated processes in a clay-loam soil. Science of the Total Environment, 2013, 449, 345-354.	8.0	108
6	Assessing the importance of a self-generated detachment process in river biofilm models. Freshwater Biology, 2006, 51, 901-912.	2.4	95
7	The influence of nitrate leaching through unsaturated soil on groundwater pollution in an agricultural area of the Basque country: a case study. Science of the Total Environment, 2003, 317, 173-187.	8.0	92
8	The role of organisms in hyporheic processes: gaps in current knowledge, needs for future research and applications. Annales De Limnologie, 2012, 48, 253-266.	0.6	81
9	Title is missing!. Plant Ecology, 1998, 135, 59-78.	1.6	80
10	Understanding nitrogen transfer dynamics in a small agricultural catchment: Comparison of a distributed (TNT2) and a semi distributed (SWAT) modeling approaches. Journal of Hydrology, 2011, 406, 1-15.	5.4	80
11	Denitrification in wetlands: A review towards a quantification at global scale. Science of the Total Environment, 2021, 754, 142398.	8.0	77
12	Mutagenic impact on fish of runoff events in agricultural areas in south-west France. Aquatic Toxicology, 2011, 101, 126-134.	4.0	76
13	Interaction between local hydrodynamics and algal community in epilithic biofilm. Water Research, 2013, 47, 2153-2163.	11.3	70
14	Change in groundwater chemistry as a consequence of suppression of floods: the case of the Rhine floodplain. Journal of Hydrology, 2003, 270, 89-104.	5.4	66
15	Evaluation of the impact of various agricultural practices on nitrate leaching under the root zone of potato and sugar beet using the STICS soilâ€"crop model. Science of the Total Environment, 2008, 394, 207-221.	8.0	66
16	Temporal variability of nitrate transport through hydrological response during flood events within a large agricultural catchment in south-west France. Science of the Total Environment, 2010, 409, 140-149.	8.0	61
17	Occurrence of metolachlor and trifluralin losses in the Save river agricultural catchment during floods. Journal of Hazardous Materials, 2011, 196, 210-219.	12.4	61
18	Fluvial transport of suspended sediment and organic carbon during flood events in a large agricultural catchment in southwest France. Hydrological Processes, 2011, 25, 2365-2378.	2.6	60

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19	Spatio-temporal analysis of factors controlling nitrate dynamics and potential denitrification hot spots and hot moments in groundwater of an alluvial floodplain. Ecological Engineering, 2017, 103, 372-384.	3.6	60
20	Modelling Hydrology and Sediment Transport in a Semi-Arid and Anthropized Catchment Using the SWAT Model: The Case of the Tafna River (Northwest Algeria). Water (Switzerland), 2017, 9, 216.	2.7	60
21	Title is missing!. Hydrobiologia, 2002, 469, 11-21.	2.0	59
22	Comparison of Langmuir and Freundlich adsorption equations within the SWAT-K model for assessing potassium environmental losses at basin scale. Agricultural Water Management, 2017, 180, 205-211.	5.6	59
23	Water age prediction and its potential impacts on water quality using a hydrodynamic model for Poyang Lake, China. Environmental Science and Pollution Research, 2016, 23, 13327-13341.	5.3	55
24	Simulating Flash Floods at Hourly Time-Step Using the SWAT Model. Water (Switzerland), 2017, 9, 929.	2.7	55
25	Sediment and nutrient dynamics during storm events in the EnxoÃ© temporary river, southern Portugal. Catena, 2015, 127, 177-190.	5.0	54
26	Improved simulation of river water and groundwater exchange in an alluvial plain using the SWAT model. Hydrological Processes, 2016, 30, 187-202.	2.6	53
27	Nitrogen dynamics in the shallow groundwater of a riparian wetland zone of the Garonne, SW France: nitrate inputs, bacterial densities, organic matter supply and denitrification measurements. Hydrology and Earth System Sciences, 2003, 7, 97-107.	4.9	48
28	Water uptake by trees in a riparian hardwood forest (Rhine floodplain, France). Hydrological Processes, 2008, 22, 366-375.	2.6	48
29	Simulating Land Management Options to Reduce Nitrate Pollution in an Agricultural Watershed Dominated by an Alluvial Aquifer. Journal of Environmental Quality, 2014, 43, 67-74.	2.0	46
30	Assessment of sediment and organic carbon exports into the Arctic ocean: The case of the Yenisei River basin. Water Research, 2019, 158, 118-135.	11.3	46
31	Assessment of the quantitative and qualitative buffer function of an alluvial wetland: hydrological modelling of a large floodplain (Garonne River, France). Hydrological Processes, 2003, 17, 2375-2392.	2.6	45
32	Differentiated free-living and sediment-attached bacterial community structure inside and outside denitrification hotspots in the riverâ€“groundwater interface. Hydrobiologia, 2008, 598, 109-121.	2.0	45
33	Assessing the hydrological response from an ensemble of CMIP5 climate projections in the transition zone of the Atlantic region (Bay of Biscay). Journal of Hydrology, 2017, 548, 46-62.	5.4	45
34	A coupled vertically integrated model to describe lateral exchanges between surface and subsurface in large alluvial floodplains with a fully penetrating river. Hydrological Processes, 2008, 22, 4257-4273.	2.6	44
35	Continuous measurement of nitrate concentration in a highly eventâ€responsive agricultural catchment in southâ€west of France: is the gain of information useful?. Hydrological Processes, 2013, 27, 1751-1763.	2.6	43
36	New insight into pesticide partition coefficient Kd for modelling pesticide fluvial transport: Application to an agricultural catchment in south-western France. Chemosphere, 2014, 99, 134-142.	8.2	43

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37	Application date as a controlling factor of pesticide transfers to surface water during runoff events. Catena, 2014, 119, 97-103.	5.0	43
38	Spatial and temporal variations of nutrient concentration in the groundwater of a floodplain: effect of hydrology, vegetation and substrate. Hydrological Processes, 1999, 13, 1511-1526.	2.6	42
39	Herbicide accumulation and evolution in reservoir sediments. Science of the Total Environment, 2009, 407, 2659-2665.	8.0	42
40	Longitudinal transformation of nitrogen and carbon in the hyporheic zone of an N-rich stream: A combined modelling and field study. Physics and Chemistry of the Earth, 2011, 36, 599-611.	2.9	37
41	Predicting soil water and mineral nitrogen contents with the STICS model for estimating nitrate leaching under agricultural fields. Agricultural Water Management, 2012, 107, 54-65.	5.6	37
42	On the Use of Hydrological Models and Satellite Data to Study the Water Budget of River Basins Affected by Human Activities: Examples from the Garonne Basin of France. Surveys in Geophysics, 2016, 37, 223-247.	4.6	36
43	Variability of particulate (SS, POC) and dissolved (DOC, NO₃) matter during storm events in the Alegria agricultural watershed. Hydrological Processes, 2014, 28, 2855-2867.	2.6	35
44	Influence of the hyporheic zone on the phosphorus dynamics of a large gravelâ€bed river, Garonne River, France. Hydrological Processes, 2009, 23, 1801-1812.	2.6	33
45	Daily Nitrate Losses: Implication on Long-Term River Quality in an Intensive Agricultural Catchment of Southwestern France. Journal of Environmental Quality, 2014, 43, 46-54.	2.0	31
46	Stream flow simulation and verification in ungauged zones by coupling hydrological and hydrodynamic models: a case study of the Poyang Lake ungauged zone. Hydrology and Earth System Sciences, 2017, 21, 5847-5861.	4.9	31
47	Testing the SWAT Model with Gridded Weather Data of Different Spatial Resolutions. Water (Switzerland), 2017, 9, 54.	2.7	29
48	Modelling epilithic biofilms combining hydrodynamics, invertebrate grazing and algal traits. Freshwater Biology, 2014, 59, 1213-1228.	2.4	27
49	Seasonal variability of NO3âˆ’ mobilization during flood events in a Mediterranean catchment: The influence of intensive agricultural irrigation. Agriculture, Ecosystems and Environment, 2015, 200, 208-218.	5.3	27
50	Changes in foliar nutrient content and resorption in Fraxinus excelsior L., Ulmus minor Mill. and Clematis vitalba L. after prevention of floods. Annales Des Sciences ForestiÃ¨res, 1999, 56, 641-650.	1.2	26
51	Effect of flood events on transport of suspended sediments, organic matter and particulate metals in a forest watershed in the Basque Country (Northern Spain). Science of the Total Environment, 2016, 569-570, 784-797.	8.0	26
52	Assessing the Water Footprint of Wheat and Maize in Haihe River Basin, Northern China (1956â€"2015). Water (Switzerland), 2018, 10, 867.	2.7	26
53	Groundwater pollution in Quaternary aquifer of Vitoria - Gasteiz (Basque Country, Spain). Environmental Geology, 1997, 30, 257-265.	1.2	25
54	Effect of nearâ€bed turbulence on chronic detachment of epilithic biofilm: Experimental and modeling approaches. Water Resources Research, 2010, 46, .	4.2	25

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55	Spatially distributed modelling of surface water-groundwater exchanges during overbank flood events â€“ a case study at the Garonne River. Advances in Water Resources, 2016, 94, 146-159.	3.8	25
56	Assessment of Hydrology and Sediment Yield in the Mekong River Basin Using SWAT Model. Water (Switzerland), 2020, 12, 3503.	2.7	25
57	Effect of Land Use/Cover Change on the Hydrological Response of a Southern Center Basin of Chile. Water (Switzerland), 2020, 12, 302.	2.7	25
58	Water resources and nitrate discharges in relation to agricultural land uses in an intensively irrigated watershed. Science of the Total Environment, 2019, 659, 1293-1306.	8.0	24
59	Identification of a minimal adequate model to describe the biomass dynamics of river epilithon. River Research and Applications, 2008, 24, 36-53.	1.7	23
60	Eutrophication and its effect on dissolved Si concentrations in the Garonne River (France). Journal of Limnology, 2009, 68, 368.	1.1	22
61	Application of the SWAT model to assess the impact of changes in agricultural management practices on water quality. Hydrological Sciences Journal, 0, , 1-19.	2.6	21
62	Modelling the impact of climate and land cover change on hydrology and water quality in a forest watershed in the Basque Country (Northern Spain). Ecological Engineering, 2018, 122, 315-326.	3.6	21
63	Can Recent Global Changes Explain the Dramatic Range Contraction of an Endangered Semi-Aquatic Mammal Species in the French Pyrenees?. PLoS ONE, 2016, 11, e0159941.	2.5	20
64	Different modelling approaches to evaluate nitrogen transport and turnover at the watershed scale. Journal of Hydrology, 2016, 539, 478-494.	5.4	20
65	Biodiversity and ecosystem purification service in an alluvial wetland. Ecological Engineering, 2017, 103, 359-371.	3.6	20
66	The Role of Ponds in Pesticide Dissipation at the Agricultural Catchment Scale: A Critical Review. Water (Switzerland), 2021, 13, 1202.	2.7	20
67	Variation in Nutrient Levels of the Groundwater in the Upper Rhine Alluvial Forests as a Consequence of Hydrological Regime and Soil Texture. Global Ecology and Biogeography Letters, 1997, 6, 211.	0.6	19
68	Effects of wastewater treatment plant pollution on in-stream ecosystems functions in an agricultural watershed. Annales De Limnologie, 2009, 45, 79-92.	0.6	19
69	Simulating the long term impact of nitrate mitigation scenarios in a pilot study basin. Agricultural Water Management, 2013, 124, 85-96.	5.6	19
70	Integrating hydrological features and genetically validated occurrence data in occupancy modelling of an endemic and endangered semi-aquatic mammal, Galemys pyrenaicus , in a Pyrenean catchment. Biological Conservation, 2015, 184, 182-192.	4.1	19
71	Potential denitrification rates are spatially linked to colonization patterns of nosZ genotypes in an alluvial wetland. Ecological Engineering, 2015, 80, 191-197.	3.6	19
72	Modelling trace metal transfer in large rivers under dynamic hydrology: A coupled hydrodynamic and chemical equilibrium model. Environmental Modelling and Software, 2017, 89, 77-96.	4.5	19

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73	Modelling the role of riverbed compartments in the regulation of water quality as an ecological service. Ecological Engineering, 2018, 118, 19-30.	3.6	19
74	A modelling-based assessment of suspended sediment transport related to new damming in the Red River basin from 2000 to 2013. Catena, 2021, 197, 104958.	5.0	19
75	The MAELIA Multi-Agent Platform for Integrated Analysis of Interactions Between Agricultural Land-Use and Low-Water Management Strategies. Lecture Notes in Computer Science, 2014, , 85-100.	1.3	19
76	Quantification of nitrate removal by a flooded alluvial zone in the Ill floodplain (Eastern France). Hydrobiologia, 1999, 410, 185-193.	2.0	18
77	The role of the hyporheic zone in the nitrogen dynamics of a semiâ€arid gravel bed stream located downstream of a heavily polluted reservoir (Tafna wadi, Algeria). River Research and Applications, 2008, 24, 183-196.	1.7	18
78	Using Modeling Tools to Better Understand Permafrost Hydrology. Water (Switzerland), 2017, 9, 418.	2.7	18
79	Water balance assessment of an ungauged area in Poyang Lake watershed using a spatially distributed runoff coefficient model. Journal of Hydroinformatics, 2018, 20, 1009-1024.	2.4	18
80	ASSESSING THE CLIMATE FORECAST SYSTEM REANALYSIS WEATHER DATA DRIVEN HYDROLOGICAL MODEL FOR THE YANGTZE RIVER BASIN IN CHINA. Applied Ecology and Environmental Research, 2019, 17, 3615-3632.	0.5	18
81	A standardised method for measuring in situ denitrification in shallow aquifers: numerical validation and measurements in riparian wetlands. Hydrology and Earth System Sciences, 2003, 7, 87-96.	4.9	17
82	Wetland restoration and nitrate reduction: the example of the peri-urban wetland of Vitoria-Gasteiz (Basque Country, North Spain). Hydrology and Earth System Sciences, 2003, 7, 109-121.	4.9	17
83	A simple multi-criteria approach to delimitate nitrate attenuation zones in alluvial floodplains. Four cases in south-western Europe. Ecological Engineering, 2017, 103, 315-331.	3.6	17
84	Total water storage variability from GRACE mission and hydrological models for a 50,000 km2 temperate watershed: the Garonne River basin (France). Journal of Hydrology: Regional Studies, 2019, 24, 100609.	2.4	17
85	Coevolution of Hydrological Cycle Components under Climate Change: The Case of the Garonne River in France. Water (Switzerland), 2018, 10, 1870.	2.7	16
86	A Modeling Approach to Diagnose the Impacts of Global Changes on Discharge and Suspended Sediment Concentration within the Red River Basin. Water (Switzerland), 2019, 11, 958.	2.7	16
87	Estimation of the Climate Change Impact on the Hydrological Balance in Basins of South-Central Chile. Water (Switzerland), 2021, 13, 794.	2.7	16
88	Modelling of trace metal transfer in a large river under different hydrological conditions (the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.5	15
89	Macroinvertebrate community traits and nitrate removal in stream sediments. Freshwater Biology, 2017, 62, 929-944.	2.4	15
90	Role of biodiversity in the biogeochemical processes at the water-sediment interface of macroporous river bed: An experimental approach. Ecological Engineering, 2017, 103, 385-393.	3.6	14

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91	Assessment of the denitrification process in alluvial wetlands at floodplain scale using the SWAT model. Ecological Engineering, 2017, 103, 344-358.	3.6	14
92	Assessment of ecological function indicators related to nitrate under multiple human stressors in a large watershed. Ecological Indicators, 2020, 111, 106016.	6.3	13
93	Hydrological Alteration Index as an Indicator of the Calibration Complexity of Water Quantity and Quality Modeling in the Context of Global Change. Water (Switzerland), 2020, 12, 115.	2.7	13
94	Temporal Dynamics of River Biofilm in Constant Flows: A Case Study in a Riverside Laboratory Flume. International Review of Hydrobiology, 2010, 95, 156-170.	0.9	12
95	Role of the hyporheic heterotrophic biofilm on transformation and toxicity of pesticides. Annales De Limnologie, 2013, 49, 87-95.	0.6	12
96	Effects of herbicide mixtures on freshwater microalgae with the potential effect of a safener. Annales De Limnologie, 2019, 55, 3.	0.6	12
97	Daily denitrification rates in floodplains under contrasting pedo-climatic and anthropogenic contexts: modelling at the watershed scale. Biogeochemistry, 2020, 149, 317-336.	3.5	12
98	Estimating sediment and particulate organic nitrogen and particulate organic phosphorous yields from a volcanic watershed characterized by forest and agriculture using SWAT model. Annales De Limnologie, 2015, 51, 23-35.	0.6	11
99	Does land use impact on groundwater invertebrate diversity and functionality in floodplains?. Ecological Engineering, 2017, 103, 394-403.	3.6	11
100	Applications of a SWAT model to evaluate the contribution of the Tafna catchment (north-west) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Assessment, 2020, 192, 510.	2.7	11
101	Global-scale daily riverine DOC fluxes from lands to the oceans with a generic model. Global and Planetary Change, 2020, 194, 103294.	3.5	11
102	Role of Local Flow Conditions in River Biofilm Colonization and Early Growth. River Research and Applications, 2015, 31, 350-367.	1.7	10
103	Variation in Vernal Species Composition in Alluvial Forests of the Rhine Valley, Eastern France. Journal of Vegetation Science, 1991, 2, 485.	2.2	9
104	Identifying spatial and seasonal patterns of river water quality in a semiarid irrigated agricultural Mediterranean basin. Environmental Science and Pollution Research, 2015, 22, 18626-18636.	5.3	9
105	Assessing the Climatic and Temporal Transposability of the SWAT Model across a Large Contrasted Watershed. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	9
106	Integrated Effects of Land Use and Topography on Streamflow Response to Precipitation in an Agriculture-Forest Dominated Northern Watershed. Water (Switzerland), 2018, 10, 633.	2.7	9
107	A model for evaluating continental chemical weathering from riverine transports of dissolved major elements at a global scale. Global and Planetary Change, 2020, 192, 103226.	3.5	9
108	Denitrification and associated nitrous oxide and carbon dioxide emissions from the Amazonian wetlands. Biogeosciences, 2020, 17, 4297-4311.	3.3	9

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109	A mass-balance approach to estimate in-stream processes in a large river. Hydrological Processes, 2008, 22, 420-428.	2.6	8
110	Assessing potassium environmental losses from a dairy farming watershed with the modified SWAT model. Agricultural Water Management, 2016, 175, 91-104.	5.6	8
111	On modeling chronic detachment of periphyton in artificial rough, open channel flow. Desalination and Water Treatment, 2012, 41, 79-87.	1.0	7
112	Evaluation of hydrology, suspended sediment and Nickel loads in a small watershed in Basque Country (Northern Spain) using eco-hydrological SWAT model. Annales De Limnologie, 2015, 51, 59-70.	0.6	7
113	Development and applications of the SWAT model to support sustainable river basin management on different scales. Sustainability of Water Quality and Ecology, 2016, 8, 1-3.	2.0	7
114	Recovering hydromorphological functionality to improve natural purification capacity of a highly human-modified wetland. Ecological Engineering, 2017, 103, 332-343.	3.6	7
115	Floodplain capacity to depollute water in relation to the structure of biological communities. Ecological Engineering, 2017, 103, 301-314.	3.6	7
116	Combining punctual and high frequency data for the spatiotemporal assessment of main geochemical processes and dissolved exports in an urban river catchment. Science of the Total Environment, 2020, 727, 138644.	8.0	7
117	Evaluating the performance of multiple satellite-based precipitation products in the Congo River Basin using the SWAT model. Journal of Hydrology: Regional Studies, 2022, 42, 101168.	2.4	7
118	Using SWAT-LUD Model to Estimate the Influence of Water Exchange and Shallow Aquifer Denitrification on Water and Nitrate Flux. Water (Switzerland), 2018, 10, 528.	2.7	6
119	Future climatic and hydrologic changes estimated by bias-adjusted regional climate model outputs of the Cordex-Africa project: case of the Tafna basin (North-Western Africa). International Journal of Global Warming, 2021, 23, 58.	0.5	6
120	Evaluation of hydrological response to extreme climate variability using SWAT model: application to the Fuhe basin of Poyang Lake watershed, China. Hydrology Research, 2017, 48, 1730-1744.	2.7	5
121	Long-term and event-scale sub-daily streamflow and sediment simulation in a small forested catchment. Hydrological Sciences Journal, 2021, 66, 862-873.	2.6	5
122	Sediment Balance Estimation of the â€˜Cuvette Centraleâ€™ of the Congo River Basin Using the SWAT Hydrological Model. Water (Switzerland), 2021, 13, 1388.	2.7	5
123	Agro-environmental risk evaluation by a spatialised multi-criteria modelling combined with the PIXAL method. Revue Internationale De GÃ©omatique, 2013, 23, 39-70.	0.1	5
124	Assessment of suspended sediment load variability in the Tonle Sap and Lower Mekong Rivers, Cambodia. Catena, 2021, 202, 105291.	5.0	4
125	A Methodological Approach for Spatiotemporally Analyzing Water-Polluting Effluents in Agricultural Landscapes Using Partial Triadic Analysis. Journal of Environmental Quality, 2015, 44, 1617-1630.	2.0	3
126	Multiobjective optimization of eco-industrial parks: evaluation of environmental impacts at the watershed scale. Computer Aided Chemical Engineering, 2018, 43, 67-72.	0.5	2

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127	Economic valuation of the natural service of nitrate regulation provided by rivers including dilution effects: Application to a semiarid region, the Ebro basin (Spain). Ecological Indicators, 2020, 117, 106608.	6.3	2
128	SWATLitho: A hydrogeochemical model to estimate daily geochemical loads at the catchment scale. Environmental Modelling and Software, 2021, 135, 104893.	4.5	2
129	Future climatic and hydrologic changes estimated by bias-adjusted regional climate model outputs of the Cordex-Africa project: case of the Tafna basin (North-Western Africa). International Journal of Global Warming, 2021, 23, 58.	0.5	2
130	Validation of hydrodynamic model by remote sensing data for China's largest freshwater lake. , 2015, , .		1
131	Evolution of N-balance with qualitative expert evaluation approach. Journal of Environmental Management, 2021, 291, 112713.	7.8	1
132	Accounting for flow intermittence in freshwater species distribution modelling. Ecohydrology, 2021, 14, e2346.	2.4	1
133	On the Use of Hydrological Models and Satellite Data to Study the Water Budget of River Basins Affected by Human Activities: Examples from the Garonne Basin of France. Space Sciences Series of ISSI, 2016, , 33-57.	0.0	1
134	Assessment of Water Quality Regulation Functions in Southwestern Europe Watersheds. Water (Switzerland), 2021, 13, 2980.	2.7	1
135	Quantification of nitrate removal by a flooded alluvial zone in the Ill floodplain (Eastern France). , 1999, , 185-193.		1
136	Modeling environmental services in rivers at catchment scale. Annales De Limnologie, 2015, 51, A1-A2.	0.6	1
137	Relationship between micro-granulometric profile and chemical sediment composition in MampostÃ³n sub-watershed, Mayabeque, Cuba. Journal of South American Earth Sciences, 2020, 101, 102538.	1.4	0
138	Daily Estimation of Inland Water Storage in the Madeira Basin During the Last Twenty Years (1998â€“2018). , 2021, , .		0
139	Assessing nitrate, carbon and sediment fluxes by coupling SWAT and RIVE models : the case of Vienne watershed (France). , 2021, , .		0
140	Global carbon sequestration through continental chemical weathering in a climatic change context. Scientific Reports, 2021, 11, 23588.	3.3	0