

Fal Pacheco

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

4,068
citations

76326

40
h-index

133252

59
g-index

128
all docs

128
docs citations

128
times ranked

3256
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil losses in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , 2014, 485-486, 110-120.	8.0	147
2	Impacts of land use conflicts on riverine ecosystems. <i>Land Use Policy</i> , 2015, 43, 48-62.	5.6	128
3	Environmental land use conflicts: A threat to soil conservation. <i>Land Use Policy</i> , 2014, 41, 172-185.	5.6	126
4	Environmental land use conflicts in catchments: A major cause of amplified nitrate in river water. <i>Science of the Total Environment</i> , 2016, 548-549, 173-188.	8.0	110
5	Factor weighting in DRASTIC modeling. <i>Science of the Total Environment</i> , 2015, 505, 474-486.	8.0	109
6	Land degradation: Multiple environmental consequences and routes to neutrality. <i>Current Opinion in Environmental Science and Health</i> , 2018, 5, 79-86.	4.1	106
7	Impacts of climate change and land-use scenarios on <i>Margaritifera margaritifera</i> , an environmental indicator and endangered species. <i>Science of the Total Environment</i> , 2015, 511, 477-488.	8.0	101
8	Groundwater quality in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , 2014, 493, 812-827.	8.0	95
9	Anthropogenic nutrients and eutrophication in multiple land use watersheds: Best management practices and policies for the protection of water resources. <i>Land Use Policy</i> , 2017, 69, 1-11.	5.6	94
10	Rainwater harvesting systems for low demanding applications. <i>Science of the Total Environment</i> , 2015, 529, 91-100.	8.0	87
11	A framework model for the dimensioning and allocation of a detention basin system: The case of a flood-prone mountainous watershed. <i>Journal of Hydrology</i> , 2016, 533, 567-580.	5.4	84
12	Assessing anthropogenic impacts on riverine ecosystems using nested partial least squares regression. <i>Science of the Total Environment</i> , 2017, 583, 466-477.	8.0	83
13	Improved framework model to allocate optimal rainwater harvesting sites in small watersheds for agro-forestry uses. <i>Journal of Hydrology</i> , 2017, 550, 318-330.	5.4	82
14	The impact of climate change, human interference, scale and modeling uncertainties on the estimation of aquifer properties and river flow components. <i>Journal of Hydrology</i> , 2014, 519, 1297-1314.	5.4	81
15	The role of environmental land use conflicts in soil fertility: A study on the Uberaba River basin, Brazil. <i>Science of the Total Environment</i> , 2016, 562, 463-473.	8.0	81
16	Rainwater harvesting in catchments for agro-forestry uses: A study focused on the balance between sustainability values and storage capacity. <i>Science of the Total Environment</i> , 2018, 613-614, 1079-1092.	8.0	80
17	Integrative assessment of river damming impacts on aquatic fauna in a Portuguese reservoir. <i>Science of the Total Environment</i> , 2017, 601-602, 1108-1118.	8.0	78
18	The multivariate statistical structure of DRASTIC model. <i>Journal of Hydrology</i> , 2013, 476, 442-459.	5.4	77

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19	A framework model for investigating the export of phosphorus to surface waters in forested watersheds: Implications to management. <i>Science of the Total Environment</i> , 2015, 536, 295-305.	8.0	77
20	Contributions of Water-Rock Interactions to the Composition of Groundwater in Areas with a Sizeable Anthropogenic Input: A Case Study of the Waters of the Fund�o Area, Central Portugal. <i>Water Resources Research</i> , 1996, 32, 3553-3570.	4.2	72
21	Controls and forecasts of nitrate yields in forested watersheds: A view over mainland Portugal. <i>Science of the Total Environment</i> , 2015, 537, 421-440.	8.0	70
22	From catchment to fish: Impact of anthropogenic pressures on gill histopathology. <i>Science of the Total Environment</i> , 2016, 550, 972-986.	8.0	62
23	Hydrochemistry, weathering and weathering rates on Madeira island. <i>Journal of Hydrology</i> , 2003, 283, 122-145.	5.4	61
24	Water resources planning for a river basin with recurrent wildfires. <i>Science of the Total Environment</i> , 2015, 526, 1-13.	8.0	61
25	Hydrogeochemistry in the Vouga River basin (central Portugal): Pollution and chemical weathering. <i>Applied Geochemistry</i> , 2006, 21, 580-613.	3.0	57
26	A partial least squares " Path modeling analysis for the understanding of biodiversity loss in rural and urban watersheds in Portugal. <i>Science of the Total Environment</i> , 2018, 626, 1069-1085.	8.0	57
27	Modeling rock weathering in small watersheds. <i>Journal of Hydrology</i> , 2014, 513, 13-27.	5.4	55
28	The impact of freshwater metal concentrations on the severity of histopathological changes in fish gills: A statistical perspective. <i>Science of the Total Environment</i> , 2017, 599-600, 217-226.	8.0	55
29	Regional groundwater flow in hard rocks. <i>Science of the Total Environment</i> , 2015, 506-507, 182-195.	8.0	54
30	Integrating topography, hydrology and rock structure in weathering rate models of spring watersheds. <i>Journal of Hydrology</i> , 2012, 428-429, 32-50.	5.4	53
31	Role of hydraulic diffusivity in the decrease of weathering rates over time. <i>Journal of Hydrology</i> , 2014, 512, 87-106.	5.4	50
32	Multi Criteria Analysis for the monitoring of aquifer vulnerability: A scientific tool in environmental policy. <i>Environmental Science and Policy</i> , 2015, 48, 250-264.	4.9	50
33	Role of fractures in weathering of solid rocks: narrowing the gap between laboratory and field weathering rates. <i>Journal of Hydrology</i> , 2006, 316, 248-265.	5.4	49
34	"Dedolomitization reactions" driven by anthropogenic activity on loessy sediments, SW Hungary. <i>Applied Geochemistry</i> , 2006, 21, 614-631.	3.0	48
35	Weathering of plagioclase across variable flow and solute transport regimes. <i>Journal of Hydrology</i> , 2012, 420-421, 46-58.	5.4	47
36	Mineral weathering rates calculated from spring water data: a case study in an area with intensive agriculture, the Morais Massif, northeast Portugal. <i>Applied Geochemistry</i> , 2002, 17, 583-603.	3.0	46

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37	Anthropogenic impacts on mineral weathering: A statistical perspective. <i>Applied Geochemistry</i> , 2013, 36, 34-48.	3.0	46
38	The Buffer Capacity of Riparian Vegetation to Control Water Quality in Anthropogenic Catchments from a Legally Protected Area: A Critical View over the Brazilian New Forest Code. <i>Water (Switzerland)</i> , 2019, 11, 549.	2.7	46
39	Groundwater Recharge Potential for Sustainable Water Use in Urban Areas of the Jequitiba River Basin, Brazil. <i>Sustainability</i> , 2019, 11, 2955.	3.2	44
40	Application of Correspondence Analysis in the Assessment of Groundwater Chemistry. <i>Mathematical Geosciences</i> , 1998, 30, 129-161.	0.9	43
41	A legal framework with scientific basis for applying the "polluter pays principle"™ to soil conservation in rural watersheds in Brazil. <i>Land Use Policy</i> , 2017, 66, 61-71.	5.6	42
42	Two-Way Regionalized Classification of Multivariate Datasets and its Application to the Assessment of Hydrodynamic Dispersion. <i>Mathematical Geosciences</i> , 2005, 37, 393-417.	0.9	39
43	Modification to the DRASTIC framework to assess groundwater contaminant risk in rural mountainous catchments. <i>Journal of Hydrology</i> , 2018, 566, 175-191.	5.4	39
44	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1999, 115, 481-512.	2.4	36
45	Flood Vulnerability, Environmental Land Use Conflicts, and Conservation of Soil and Water: A Study in the Batatais SP Municipality, Brazil. <i>Water (Switzerland)</i> , 2018, 10, 1357.	2.7	36
46	A structural equation model to predict macroinvertebrate-based ecological status in catchments influenced by anthropogenic pressures. <i>Science of the Total Environment</i> , 2019, 681, 242-257.	8.0	32
47	Hydrologic Modeling for Sustainable Water Resources Management in Urbanized Karst Areas. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2542.	2.6	29
48	Land capability of multiple-landform watersheds with environmental land use conflicts. <i>Land Use Policy</i> , 2019, 81, 689-704.	5.6	28
49	Prognosis of metal concentrations in sediments and water of Paraopeba River following the collapse of B1 tailings dam in Brumadinho (Minas Gerais, Brazil). <i>Science of the Total Environment</i> , 2022, 809, 151157.	8.0	28
50	Diagnosis of degraded pastures using an improved NDVI-based remote sensing approach: An application to the Environmental Protection Area of Uberaba River Basin (Minas Gerais, Brazil). <i>Remote Sensing Applications: Society and Environment</i> , 2019, 14, 20-33.	1.5	27
51	The assessment of water erosion using Partial Least Squares-Path Modeling: A study in a legally protected area with environmental land use conflicts. <i>Science of the Total Environment</i> , 2019, 691, 1225-1241.	8.0	26
52	The modeling of pasture conservation and of its impact on stream water quality using Partial Least Squares-Path Modeling. <i>Science of the Total Environment</i> , 2019, 697, 134081.	8.0	26
53	A multi criteria analog model for assessing the vulnerability of rural catchments to road spills of hazardous substances. <i>Environmental Impact Assessment Review</i> , 2017, 64, 26-36.	9.2	25
54	Water security threats and challenges following the rupture of large tailings dams. <i>Science of the Total Environment</i> , 2022, 834, 155285.	8.0	25

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55	Hydraulic diffusivity and macrodispersivity calculations embedded in a geographic information system. <i>Hydrological Sciences Journal</i> , 2013, 58, 930-944.	2.6	24
56	Integrating ecosystem services into sustainable landscape management: A collaborative approach. <i>Science of the Total Environment</i> , 2021, 794, 148538.	8.0	23
57	A Regression Model of Stream Water Quality Based on Interactions between Landscape Composition and Riparian Buffer Width in Small Catchments. <i>Water (Switzerland)</i> , 2019, 11, 1757.	2.7	22
58	Finding the number of natural clusters in groundwater data sets using the concept of equivalence class. <i>Computers and Geosciences</i> , 1998, 24, 7-15.	4.2	21
59	The Role of Landscape Configuration, Season, and Distance from Contaminant Sources on the Degradation of Stream Water Quality in Urban Catchments. <i>Water (Switzerland)</i> , 2019, 11, 2025.	2.7	21
60	Flood risk attenuation in critical zones of continental Portugal using sustainable detention basins. <i>Science of the Total Environment</i> , 2020, 721, 137727.	8.0	20
61	The consequences for stream water quality of long-term changes in landscape patterns: Implications for land use management and policies. <i>Land Use Policy</i> , 2021, 109, 105679.	5.6	20
62	Can Land Cover Changes Mitigate Large Floods? A Reflection Based on Partial Least Squares-Path Modeling. <i>Water (Switzerland)</i> , 2019, 11, 684.	2.7	18
63	Seasonal effect of land use management on gill histopathology of Barbel and Douro Nase in a Portuguese watershed. <i>Science of the Total Environment</i> , 2021, 764, 142869.	8.0	18
64	A case study of factors controlling water quality in two warm monomictic tropical reservoirs located in contrasting agricultural watersheds. <i>Science of the Total Environment</i> , 2021, 762, 144511.	8.0	18
65	An Assessment of Groundwater Contamination Risk with Radon Based on Clustering and Structural Models. <i>Water (Switzerland)</i> , 2019, 11, 1107.	2.7	17
66	Water security and watershed management assessed through the modelling of hydrology and ecological integrity: A study in the Galicia-Costa (NW Spain). <i>Science of the Total Environment</i> , 2021, 759, 143905.	8.0	16
67	Is it safe to remove a dam at the risk of a sprawl by exotic fish species?. <i>Science of the Total Environment</i> , 2021, 771, 144768.	8.0	16
68	Impacts of land use and infrastructural changes on threatened Little Bustard <i>Tetrax tetrax</i> breeding populations: quantitative assessments using a recently developed spatially explicit dynamic modelling framework. <i>Bird Conservation International</i> , 2016, 26, 418-435.	1.3	15
69	Hydrologic Impacts of Land Use Changes in the Sabor River Basin: A Historical View and Future Perspectives. <i>Water (Switzerland)</i> , 2019, 11, 1464.	2.7	15
70	A New Framework for the Management and Radiological Protection of Groundwater Resources: The Implementation of a Portuguese Action Plan for Radon in Drinking Water and Impacts on Human Health. <i>Water (Switzerland)</i> , 2019, 11, 760.	2.7	15
71	A new radon prediction approach for an assessment of radiological potential in drinking water. <i>Science of the Total Environment</i> , 2020, 712, 136427.	8.0	15
72	Geochemistry of waters associated with the old mine workings at Fonte Santa (NE of Portugal). <i>Journal of Geochemical Exploration</i> , 2010, 105, 153-165.	3.2	14

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73	A partial least squares-path model of causality among environmental deterioration indicators in the dry period of Paraopeba River after the rupture of B1 tailings dam in Brumadinho (Minas Gerais, Brazil). <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10474.	10.7843134	1047
74	Development of a Hydrologic and Water Allocation Model to Assess Water Availability in the Sabor River Basin (Portugal). <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2419.	2.6	13
75	Production of clean water in agriculture headwater catchments: A model based on the payment for environmental services. <i>Science of the Total Environment</i> , 2021, 785, 147331.	8.0	13
76	Seasonal Differences in Water Pollution and Liver Histopathology of Iberian Barbel (<i>Luciobarbus</i>) (Switzerland), 2022, 14, 444.	2.7	13
77	Spatial indicator of priority areas for the implementation of agroforestry systems: An optimization strategy for agricultural landscapes restoration. <i>Science of the Total Environment</i> , 2022, 839, 156185.	8.0	13
78	An approach to validate groundwater contamination risk in rural mountainous catchments: the role of lateral groundwater flows. <i>MethodsX</i> , 2018, 5, 1447-1455.	1.6	12
79	Seasonal and Scale Effects of Anthropogenic Pressures on Water Quality and Ecological Integrity: A Study in the Sabor River Basin (NE Portugal) Using Partial Least Squares-Path Modeling. <i>Water (Switzerland)</i> , 2019, 11, 1941.	2.7	12
80	Undamming the Douro River Catchment: A Stepwise Approach for Prioritizing Dam Removal. <i>Water (Switzerland)</i> , 2019, 11, 693.	2.7	12
81	The Potential of Small Dams for Conjunctive Water Management in Rural Municipalities. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1239.	2.6	12
82	Sustainable Use of Soils and Water: The Role of Environmental Land Use Conflicts. <i>Sustainability</i> , 2020, 12, 1163.	3.2	12
83	Response to pumping of wells in sloping fault zone aquifers. <i>Journal of Hydrology</i> , 2002, 259, 116-135.	5.4	11
84	Bridging hydraulic diffusivity from aquifer to particle-size scale: a study on loess sediments from southwest Hungary. <i>Hydrological Sciences Journal</i> , 2015, 60, 269-284.	2.6	10
85	Natural and anthropogenic causes of mortality in wild birds in a wildlife rehabilitation centre in Northern Portugal: a ten-year study. <i>Bird Study</i> , 2019, 66, 484-493.	1.0	10
86	Modelling of threats that affect Cyano-HABs in an eutrophicated reservoir: First phase towards water security and environmental governance in watersheds. <i>Science of the Total Environment</i> , 2022, 809, 152155.	8.0	10
87	Infiltration in the Corgo River basin (northern Portugal): coupling water balances with rainfall-runoff regressions on a monthly basis. <i>Hydrological Sciences Journal</i> , 2006, 51, 989-1005.	2.6	9
88	Preservation of wild bird species in northern Portugal - Effects of anthropogenic pressures in wild bird populations (2008-2017). <i>Science of the Total Environment</i> , 2019, 650, 2996-3006.	8.0	9
89	Estimating water erosion from the brightness index of orbital images: A framework for the prognosis of degraded pastures. <i>Science of the Total Environment</i> , 2021, 776, 146019.	8.0	9
90	Role of Mine Tailings in the Spatio-Temporal Distribution of Phosphorus in River Water: The Case of B1 Dam Break in Brumadinho. <i>Water (Switzerland)</i> , 2022, 14, 1572.	2.7	9

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91	Occurrence of springs in massifs of crystalline rocks, northern Portugal. <i>Hydrogeology Journal</i> , 2002, 10, 239-253.	2.1	8
92	Hydraulic head response of a confined aquifer influenced by river stage fluctuations and mechanical loading. <i>Journal of Hydrology</i> , 2015, 531, 716-727.	5.4	8
93	The Configuration of Forest Cover in Ribeirão Preto: A Diagnosis of Brazil's Forest Code Implementation. <i>Sustainability</i> , 2020, 12, 5686.	3.2	8
94	Combination of Ecological Engineering Procedures Applied to Morphological Stabilization of Estuarine Banks after Dredging. <i>Water (Switzerland)</i> , 2020, 12, 391.	2.7	8
95	A combined GIS-MCDA approach to prioritize stream water quality interventions, based on the contamination risk and intervention complexity. <i>Science of the Total Environment</i> , 2021, 798, 149322.	8.0	8
96	Potential Impacts of Land Use Changes on Water Resources in a Tropical Headwater Catchment. <i>Water (Switzerland)</i> , 2021, 13, 3249.	2.7	8
97	The vulnerability of the environment to spills of dangerous substances on highways: A diagnosis based on multi criteria modeling. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 62, 748-759.	6.8	7
98	A Method for Estimating the Risk of Dam Reservoir Silting in Fire-Prone Watersheds: A Study in Douro River, Portugal. <i>Water (Switzerland)</i> , 2020, 12, 2959.	2.7	7
99	Water Security Assessment of Groundwater Quality in an Anthropized Rural Area from the Atlantic Forest Biome in Brazil. <i>Water (Switzerland)</i> , 2020, 12, 623.	2.7	7
100	Exploring the Effects of Landscape Metrics in Water Quality, Ave River Basin Case Study. <i>International Journal of Design and Nature and Ecodynamics</i> , 2020, 15, 65-72.	0.5	7
101	Exploratory assessment of groundwater vulnerability to pollution in the Sordo River Basin, Northeast of Portugal. <i>Revista Escola De Minas</i> , 2013, 66, 49-58.	0.1	6
102	DRASTIC and GOD vulnerability maps of the Cabril River Basin, Portugal. <i>Revista Escola De Minas</i> , 2014, 67, 133-142.	0.1	6
103	A raw water security risk model for urban supply based on failure mode analysis. <i>Journal of Hydrology</i> , 2021, 593, 125843.	5.4	6
104	PATH MODELLING ANALYSIS OF POLLUTION SOURCES AND ENVIRONMENTAL CONSEQUENCES IN RIVER BASINS. <i>WIT Transactions on Ecology and the Environment</i> , 2018, , .	0.0	6
105	The Assessment of Hydrological Availability and the Payment for Ecosystem Services: A Pilot Study in a Brazilian Headwater Catchment. <i>Water (Switzerland)</i> , 2020, 12, 2726.	2.7	5
106	An Improved Model for the Evaluation of Groundwater Recharge Based on the Concept of Conservative Use Potential: A Study in the River Pandeiros Watershed, Minas Gerais, Brazil. <i>Water (Switzerland)</i> , 2020, 12, 1001.	2.7	5
107	Hydrology and stream water quality of fire-prone watersheds. <i>Current Opinion in Environmental Science and Health</i> , 2021, 21, 100243.	4.1	5
108	Diagnosis on Transport Risk Based on a Combined Assessment of Road Accidents and Watershed Vulnerability to Spills of Hazardous Substances. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2011.	2.6	4

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109	Conjunctive Water Resources Management in Densely Urbanized Karst Areas: A Study in the Sete Lagoas Region, State of Minas Gerais, Brazil. <i>Sustainability</i> , 2019, 11, 3944.	3.2	4
110	Watersheds, Anthropogenic Activities and the Role of Adaptation to Environmental Impacts. <i>Water (Switzerland)</i> , 2020, 12, 3451.	2.7	3
111	Distribution and Potential Availability of As, Metals and P in Sediments from a Riverine Reservoir in a Rural Mountainous Catchment (NE Portugal). <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5616.	2.6	3
112	ANALYSIS OF HYDROLOGY AND WATER ALLOCATION WITH SWAT AND MIKE HYDRO BASIN IN THE SABOR RIVER BASIN, PORTUGAL. , 2018, , .		3
113	EFFECT OF LANDSCAPE METRICS ON WATER QUALITY OVER THREE DECADES: A CASE STUDY OF THE AVE RIVER BASIN, PORTUGAL. , 2020, , .		3
114	PLS-PM FOR ECOLOGICAL INTEGRITY MAPPING: CASE STUDY OF THE AVE RIVER BASIN, PORTUGAL. <i>WIT Transactions on Ecology and the Environment</i> , 2019, , .	0.0	3
115	Water-Secure River Basins: A Compromise of Policy, Governance and Management with the Environment. <i>Water (Switzerland)</i> , 2022, 14, 1329.	2.7	2
116	A groundwater security model based on hydraulic turnover times and flow compartments. <i>MethodsX</i> , 2022, 9, 101766.	1.6	2
117	RIVER RESTORATION FOR THE REPLACEMENT OF LOST SPAWNING GROUNDS DUE TO DAM CONSTRUCTION. , 2021, , .		1
118	Application of an improved vegetation index based on the visible spectrum in the diagnosis of degraded pastures: Implications for development. <i>Land Degradation and Development</i> , 2021, 32, 4693.	3.9	1
119	Impact of anthropogenic pressures on wild mammals of Northern Portugal. <i>Veterinary World</i> , 2020, 13, 2691-2702.	1.7	1
120	Methodological proposal for Payments for Environmental Services (PES) aiming to produce clean water in springs. <i>Ciência E Natura</i> , 0, 44, e23.	0.0	1
121	Mortality of wild amphibians and reptiles admitted to a Wildlife Rehabilitation Center in Northern Portugal (2009 – 2017). <i>Russian Journal of Herpetology</i> , 2021, 28, 89-96.	0.5	0
122	Impact of anthropogenic stressors in the mortality of endangered vertebrate species: a 10-year study in Northern Portugal. <i>Exploratory Animal and Medical Research</i> , 2021, 11, 14.	0.1	0
123	PATH MODELLING ANALYSIS OF NATURAL RADIOACTIVITY IN DRINKING WATER AND PUBLIC HEALTH IMPACTS. <i>WIT Transactions on Ecology and the Environment</i> , 2019, , .	0.0	0
124	Improving Water Security in the Metropolitan Region of Belo Horizonte Following the Rupture of B1 Tailings Dam in Brumadinho (Minas Gerais, Brazil). <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
125	Spatial Indicator of Priority Areas for the Implementation of Agroforestry Systems in Semi-Deciduous Tropical Forest: An Optimization Strategy for Ecological Recovery and Payment for Environmental Services. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0