

# Fal Pacheco

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112  
papers

3,116  
citations

39  
h-index

52  
g-index

128  
ext. papers

3,615  
ext. citations

5.9  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
112	The Role of Hydraulic Turnover Time in the Assessment of Water Quality in Portuguese Aquifer Systems. <i>Advances in Science, Technology and Innovation</i> , <b>2022</b> , 543-546	0.3	
111	Seasonal Differences in Water Pollution and Liver Histopathology of Iberian Barbel ( <i>Luciobarbus bocagei</i> ) and Douro Nase ( <i>Pseudochondrostoma duriense</i> ) in an Agricultural Watershed. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 444	3	2
110	Water security threats and challenges following the rupture of large tailings dams.. <i>Science of the Total Environment</i> , <b>2022</b> , 155285	10.2	4
109	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>Environmental Pollution</i> , <b>2022</b> , 119341	9.3	1
108	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> , <b>2022</b> , 14, 1572	3	1
107	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> , <b>2022</b> , 156185	10.2	0
106	Potential Impacts of Land Use Changes on Water Resources in a Tropical Headwater Catchment. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 3249	3	1
105	Modeling 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> , <b>2021</b> , 152155	10.2	2
104	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> , <b>2021</b> , 809, 151157	10.2	5
103	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> , <b>2021</b> , 762, 144511	10.2	8
102	Hydrology and stream water quality of fire-prone watersheds. <i>Current Opinion in Environmental Science and Health</i> , <b>2021</b> , 21, 100243	8.1	0
101	Is it safe to remove a dam at the risk of a sprawl by exotic fish species?. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 144768	10.2	8
100	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> , <b>2021</b> , 776, 146019	10.2	1
99	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> , <b>2021</b> , 759, 143905	10.2	11
98	A raw water security risk model for urban supply based on failure mode analysis. <i>Journal of Hydrology</i> , <b>2021</b> , 593, 125843	6	1
97	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> , <b>2021</b> , 764, 142869	10.2	5
96	Production of clean water in agriculture headwater catchments: A model based on the payment for environmental services. <i>Science of the Total Environment</i> , <b>2021</b> , 785, 147331	10.2	3

95	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> , <b>2021</b> , 32, 4693	4.4	
94	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> , <b>2021</b> , 109, 105679	5.6	3
93	Integrating ecosystem services into sustainable landscape management: A collaborative approach. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148538	10.2	4
92	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> , <b>2021</b> , 798, 149322	10.2	1
91	The Assessment of Hydrological Availability and the Payment for Ecosystem Services: A Pilot Study in a Brazilian Headwater Catchment. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2726	3	0
90	A Method for Estimating the Risk of Dam Reservoir Silting in Fire-Prone Watersheds: A Study in Douro River, Portugal. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2959	3	6
89	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> , <b>2020</b> , 12, 1001	3	4
88	Flood risk attenuation in critical zones of continental Portugal using sustainable detention basins. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137727	10.2	6
87	Water Security Assessment of Groundwater Quality in an Anthropized Rural Area from the Atlantic Forest Biome in Brazil. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 623	3	4
86	Sustainable Use of Soils and Water: The Role of Environmental Land Use Conflicts. <i>Sustainability</i> , <b>2020</b> , 12, 1163	3.6	8
85	Combination of Ecological Engineering Procedures Applied to Morphological Stabilization of Estuarine Banks after Dredging. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 391	3	3
84	Exploring the Effects of Landscape Metrics in Water Quality, Ave River Basin Case Study. <i>International Journal of Design and Nature and Ecodynamics</i> , <b>2020</b> , 15, 65-72	2.3	5
83	Impact of anthropogenic pressures on wild mammals of Northern Portugal. <i>Veterinary World</i> , <b>2020</b> , 13, 2691-2702	1.7	0
82	A new radon prediction approach for an assessment of radiological potential in drinking water. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136427	10.2	9
81	The Configuration of Forest Cover in Ribeirão Preto: A Diagnosis of Brazil's Forest Code Implementation. <i>Sustainability</i> , <b>2020</b> , 12, 5686	3.6	3
80	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> , <b>2019</b> , 11, 2025	3	14
79	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> , <b>2019</b> , 697, 134081	10.2	17
78	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> , <b>2019</b> , 11, 1941	3	11

77	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> , <b>2019</b> , 14, 20-33	2.8	19
76	Undamming the Douro River Catchment: A Stepwise Approach for Prioritizing Dam Removal. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 693	3	8
75	Groundwater Recharge Potential for Sustainable Water Use in Urban Areas of the Jequitiba River Basin, Brazil. <i>Sustainability</i> , <b>2019</b> , 11, 2955	3.6	21
74	An Assessment of Groundwater Contamination Risk with Radon Based on Clustering and Structural Models. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1107	3	12
73	The Potential of Small Dams for Conjunctive Water Management in Rural Municipalities. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	8
72	A structural equation model to predict macroinvertebrate-based ecological status in catchments influenced by anthropogenic pressures. <i>Science of the Total Environment</i> , <b>2019</b> , 681, 242-257	10.2	16
71	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> , <b>2019</b> , 11, 760	3	11
70	Can Land Cover Changes Mitigate Large Floods? A Reflection Based on Partial Least Squares-Path Modeling. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 684	3	13
69	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> , <b>2019</b> , 11, 549	3	34
68	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> , <b>2019</b> , 16,	4.6	6
67	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> , <b>2019</b> , 691, 1225-1241	10.2	12
66	Hydrologic Modeling for Sustainable Water Resources Management in Urbanized Karst Areas. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	8
65	Conjunctive Water Resources Management in Densely Urbanized Karst Areas: A Study in the Sete Lagoas Region, State of Minas Gerais, Brazil. <i>Sustainability</i> , <b>2019</b> , 11, 3944	3.6	2
64	Hydrologic Impacts of Land Use Changes in the Sabor River Basin: A Historical View and Future Perspectives. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1464	3	9
63	A Regression Model of Stream Water Quality Based on Interactions between Landscape Composition and Riparian Buffer Width in Small Catchments. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1757	3	11
62	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> , <b>2019</b> , 66, 484-493	0.7	5
61	Land capability of multiple-landform watersheds with environmental land use conflicts. <i>Land Use Policy</i> , <b>2019</b> , 81, 689-704	5.6	17
60	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> , <b>2019</b> , 650, 2996-3006	10.2	6

59	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> , <b>2018</b> , 626, 1069-1085	10.2	44
58	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> , <b>2018</b> , 613-614, 1079-1092	10.2	67
57	Land degradation: Multiple environmental consequences and routes to neutrality. <i>Current Opinion in Environmental Science and Health</i> , <b>2018</b> , 5, 79-86	8.1	66
56	PATH MODELLING ANALYSIS OF POLLUTION SOURCES AND ENVIRONMENTAL CONSEQUENCES IN RIVER BASINS <b>2018</b> ,		4
55	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> , <b>2018</b> , 62, 748-759	6.4	3
54	Flood Vulnerability, Environmental Land Use Conflicts, and Conservation of Soil and Water: A Study in the Batatais SP Municipality, Brazil. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1357	3	24
53	An approach to validate groundwater contamination risk in rural mountainous catchments: the role of lateral groundwater flows. <i>MethodsX</i> , <b>2018</b> , 5, 1447-1455	1.9	8
52	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> , <b>2018</b> , 15,	4.6	1
51	Modification to the DRASTIC framework to assess groundwater contaminant risk in rural mountainous catchments. <i>Journal of Hydrology</i> , <b>2018</b> , 566, 175-191	6	35
50	Assessing anthropogenic impacts on riverine ecosystems using nested partial least squares regression. <i>Science of the Total Environment</i> , <b>2017</b> , 583, 466-477	10.2	68
49	A multi criteria analog model for assessing the vulnerability of rural catchments to road spills of hazardous substances. <i>Environmental Impact Assessment Review</i> , <b>2017</b> , 64, 26-36	5.3	20
48	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> , <b>2017</b> , 599-600, 217-226	10.2	48
47	Improved framework model to allocate optimal rainwater harvesting sites in small watersheds for agro-forestry uses. <i>Journal of Hydrology</i> , <b>2017</b> , 550, 318-330	6	68
46	Integrative assessment of river damming impacts on aquatic fauna in a Portuguese reservoir. <i>Science of the Total Environment</i> , <b>2017</b> , 601-602, 1108-1118	10.2	60
45	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> , <b>2017</b> , 69, 1-11	5.6	60
44	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> , <b>2017</b> , 66, 61-71	5.6	35
43	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> , <b>2016</b> , 26, 418-435	1.7	13
42	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> , <b>2016</b> , 533, 567-580	6	69

41	Environmental land use conflicts in catchments: A major cause of amplified nitrate in river water. <i>Science of the Total Environment</i> , <b>2016</b> , 548-549, 173-188	10.2	91
40	From catchment to fish: Impact of anthropogenic pressures on gill histopathology. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 972-986	10.2	57
39	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> , <b>2016</b> , 562, 463-473	10.2	65
38	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> , <b>2015</b> , 536, 295-305	10.2	69
37	Rainwater harvesting systems for low demanding applications. <i>Science of the Total Environment</i> , <b>2015</b> , 529, 91-100	10.2	72
36	Bridging hydraulic diffusivity from aquifer to particle-size scale: a study on loess sediments from southwest Hungary. <i>Hydrological Sciences Journal</i> , <b>2015</b> , 60, 269-284	3.5	9
35	Water resources planning for a river basin with recurrent wildfires. <i>Science of the Total Environment</i> , <b>2015</b> , 526, 1-13	10.2	56
34	Controls and forecasts of nitrate yields in forested watersheds: A view over mainland Portugal. <i>Science of the Total Environment</i> , <b>2015</b> , 537, 421-40	10.2	64
33	Regional groundwater flow in hard rocks. <i>Science of the Total Environment</i> , <b>2015</b> , 506-507, 182-95	10.2	47
32	Impacts of land use conflicts on riverine ecosystems. <i>Land Use Policy</i> , <b>2015</b> , 43, 48-62	5.6	107
31	Factor weighting in DRASTIC modeling. <i>Science of the Total Environment</i> , <b>2015</b> , 505, 474-86	10.2	92
30	Hydraulic head response of a confined aquifer influenced by river stage fluctuations and mechanical loading. <i>Journal of Hydrology</i> , <b>2015</b> , 531, 716-727	6	7
29	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> , <b>2015</b> , 511, 477-88	10.2	88
28	Multi Criteria Analysis for the monitoring of aquifer vulnerability: A scientific tool in environmental policy. <i>Environmental Science and Policy</i> , <b>2015</b> , 48, 250-264	6.2	40
27	Role of hydraulic diffusivity in the decrease of weathering rates over time. <i>Journal of Hydrology</i> , <b>2014</b> , 512, 87-106	6	49
26	Groundwater quality in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 812-27	10.2	85
25	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> , <b>2014</b> , 519, 1297-1314 <sup>6</sup>		73
24	Environmental land use conflicts: A threat to soil conservation. <i>Land Use Policy</i> , <b>2014</b> , 41, 172-185	5.6	100

23	DRASTIC and GOD vulnerability maps of the Cabril River Basin, Portugal. <i>Revista Escola De Minas</i> , <b>2014</b> , 67, 133-142		4
22	Soil losses in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , <b>2014</b> , 485-486, 110-120	10.2	131
21	Modeling rock weathering in small watersheds. <i>Journal of Hydrology</i> , <b>2014</b> , 513, 13-27	6	51
20	Anthropogenic impacts on mineral weathering: A statistical perspective. <i>Applied Geochemistry</i> , <b>2013</b> , 36, 34-48	3.5	43
19	The multivariate statistical structure of DRASTIC model. <i>Journal of Hydrology</i> , <b>2013</b> , 476, 442-459	6	67
18	Hydraulic diffusivity and macrodispersivity calculations embedded in a geographic information system. <i>Hydrological Sciences Journal</i> , <b>2013</b> , 58, 930-944	3.5	21
17	Exploratory assessment of groundwater vulnerability to pollution in the Sordo River Basin, Northeast of Portugal. <i>Revista Escola De Minas</i> , <b>2013</b> , 66, 49-58		3
16	Weathering of plagioclase across variable flow and solute transport regimes. <i>Journal of Hydrology</i> , <b>2012</b> , 420-421, 46-58	6	44
15	Integrating topography, hydrology and rock structure in weathering rate models of spring watersheds. <i>Journal of Hydrology</i> , <b>2012</b> , 428-429, 32-50	6	50
14	Geochemistry of waters associated with the old mine workings at Fonte Santa (NE of Portugal). <i>Journal of Geochemical Exploration</i> , <b>2010</b> , 105, 153-165	3.8	12
13	Infiltration in the Corgo River basin (northern Portugal): coupling water balances with rainfall-runoff regressions on a monthly basis. <i>Hydrological Sciences Journal</i> , <b>2006</b> , 51, 989-1005	3.5	8
12	Hydrogeochemistry in the Vouga River basin (central Portugal): Pollution and chemical weathering. <i>Applied Geochemistry</i> , <b>2006</b> , 21, 580-613	3.5	51
11	Dedolomitization reactions driven by anthropogenic activity on loessy sediments, SW Hungary. <i>Applied Geochemistry</i> , <b>2006</b> , 21, 614-631	3.5	45
10	Role of fractures in weathering of solid rocks: narrowing the gap between laboratory and field weathering rates. <i>Journal of Hydrology</i> , <b>2006</b> , 316, 248-265	6	44
9	Two-Way Regionalized Classification of Multivariate Datasets and its Application to the Assessment of Hydrodynamic Dispersion. <i>Mathematical Geosciences</i> , <b>2005</b> , 37, 393-417		39
8	Hydrochemistry, weathering and weathering rates on Madeira island. <i>Journal of Hydrology</i> , <b>2003</b> , 283, 122-145	6	48
7	Occurrence of springs in massifs of crystalline rocks, northern Portugal. <i>Hydrogeology Journal</i> , <b>2002</b> , 10, 239-253	3.1	7
6	Response to pumping of wells in sloping fault zone aquifers. <i>Journal of Hydrology</i> , <b>2002</b> , 259, 116-135	6	9

5	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> , <b>2002</b> , 17, 583-603	3.5	45
4	Weathering, Biomass Production and Groundwater Chemistry in an Area of Dominant Anthropogenic Influence, the Chaves-Vila Pouca de Aguiar Region, North of Portugal. <i>Water, Air, and Soil Pollution</i> , <b>1999</b> , 115, 481-512	2.6	36
3	Application of Correspondence Analysis in the Assessment of Groundwater Chemistry. <i>Mathematical Geosciences</i> , <b>1998</b> , 30, 129-161		40
2	Finding the number of natural clusters in groundwater data sets using the concept of equivalence class. <i>Computers and Geosciences</i> , <b>1998</b> , 24, 7-15	4.5	20
1	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� Area, Central Portugal. <i>Water Resources Research</i> , <b>1996</b> , 32, 3553-3570	5.4	60