

Fal Pacheco

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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 | Soil losses in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , 2014 , 485-486, 110-120 | 10.2 | 131 |
| 111 | Impacts of land use conflicts on riverine ecosystems. <i>Land Use Policy</i> , 2015 , 43, 48-62 | 5.6 | 107 |
| 110 | Environmental land use conflicts: A threat to soil conservation. <i>Land Use Policy</i> , 2014 , 41, 172-185 | 5.6 | 100 |
| 109 | Factor weighting in DRASTIC modeling. <i>Science of the Total Environment</i> , 2015 , 505, 474-86 | 10.2 | 92 |
| 108 | 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 | 10.2 | 91 |
| 107 | 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, 477-88 | 10.2 | 88 |
| 106 | Groundwater quality in rural watersheds with environmental land use conflicts. <i>Science of the Total Environment</i> , 2014 , 493, 812-27 | 10.2 | 85 |
| 105 | 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 ⁶ | | 73 |
| 104 | Rainwater harvesting systems for low demanding applications. <i>Science of the Total Environment</i> , 2015 , 529, 91-100 | 10.2 | 72 |
| 103 | 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 | 10.2 | 69 |
| 102 | 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 | 6 | 69 |
| 101 | Assessing anthropogenic impacts on riverine ecosystems using nested partial least squares regression. <i>Science of the Total Environment</i> , 2017 , 583, 466-477 | 10.2 | 68 |
| 100 | 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 | 6 | 68 |
| 99 | 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 | 10.2 | 67 |
| 98 | The multivariate statistical structure of DRASTIC model. <i>Journal of Hydrology</i> , 2013 , 476, 442-459 | 6 | 67 |
| 97 | Land degradation: Multiple environmental consequences and routes to neutrality. <i>Current Opinion in Environmental Science and Health</i> , 2018 , 5, 79-86 | 8.1 | 66 |
| 96 | 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 | 10.2 | 65 |

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| 95 | Controls and forecasts of nitrate yields in forested watersheds: A view over mainland Portugal. <i>Science of the Total Environment</i> , 2015 , 537, 421-40 | 10.2 | 64 |
| 94 | 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 | 10.2 | 60 |
| 93 | 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 | 60 |
| 92 | 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 Fundão Area, Central Portugal. <i>Water Resources Research</i> , 1996 , 32, 3553-3570 | 5.4 | 60 |
| 91 | From catchment to fish: Impact of anthropogenic pressures on gill histopathology. <i>Science of the Total Environment</i> , 2016 , 550, 972-986 | 10.2 | 57 |
| 90 | Water resources planning for a river basin with recurrent wildfires. <i>Science of the Total Environment</i> , 2015 , 526, 1-13 | 10.2 | 56 |
| 89 | Modeling rock weathering in small watersheds. <i>Journal of Hydrology</i> , 2014 , 513, 13-27 | 6 | 51 |
| 88 | Hydrogeochemistry in the Vouga River basin (central Portugal): Pollution and chemical weathering. <i>Applied Geochemistry</i> , 2006 , 21, 580-613 | 3.5 | 51 |
| 87 | Integrating topography, hydrology and rock structure in weathering rate models of spring watersheds. <i>Journal of Hydrology</i> , 2012 , 428-429, 32-50 | 6 | 50 |
| 86 | Role of hydraulic diffusivity in the decrease of weathering rates over time. <i>Journal of Hydrology</i> , 2014 , 512, 87-106 | 6 | 49 |
| 85 | 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 | 10.2 | 48 |
| 84 | Hydrochemistry, weathering and weathering rates on Madeira island. <i>Journal of Hydrology</i> , 2003 , 283, 122-145 | 6 | 48 |
| 83 | Regional groundwater flow in hard rocks. <i>Science of the Total Environment</i> , 2015 , 506-507, 182-95 | 10.2 | 47 |
| 82 | Dedolomitization reactions driven by anthropogenic activity on loessy sediments, SW Hungary. <i>Applied Geochemistry</i> , 2006 , 21, 614-631 | 3.5 | 45 |
| 81 | 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 | 3.5 | 45 |
| 80 | 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 | 10.2 | 44 |
| 79 | Weathering of plagioclase across variable flow and solute transport regimes. <i>Journal of Hydrology</i> , 2012 , 420-421, 46-58 | 6 | 44 |
| 78 | 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 | 6 | 44 |

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| 77 | Anthropogenic impacts on mineral weathering: A statistical perspective. <i>Applied Geochemistry</i> , 2013 , 36, 34-48 | 3.5 | 43 |
| 76 | 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 | 6.2 | 40 |
| 75 | Application of Correspondence Analysis in the Assessment of Groundwater Chemistry. <i>Mathematical Geosciences</i> , 1998 , 30, 129-161 | | 40 |
| 74 | Two-Way Regionalized Classification of Multivariate Datasets and its Application to the Assessment of Hydrodynamic Dispersion. <i>Mathematical Geosciences</i> , 2005 , 37, 393-417 | | 39 |
| 73 | 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> , 1999 , 115, 481-512 | 2.6 | 36 |
| 72 | 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 | 35 |
| 71 | Modification to the DRASTIC framework to assess groundwater contaminant risk in rural mountainous catchments. <i>Journal of Hydrology</i> , 2018 , 566, 175-191 | 6 | 35 |
| 70 | 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 | 3 | 34 |
| 69 | 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 | 3 | 24 |
| 68 | Groundwater Recharge Potential for Sustainable Water Use in Urban Areas of the Jequitiba River Basin, Brazil. <i>Sustainability</i> , 2019 , 11, 2955 | 3.6 | 21 |
| 67 | Hydraulic diffusivity and macrodispersivity calculations embedded in a geographic information system. <i>Hydrological Sciences Journal</i> , 2013 , 58, 930-944 | 3.5 | 21 |
| 66 | 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 | 5.3 | 20 |
| 65 | 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 | 4.5 | 20 |
| 64 | 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 | 2.8 | 19 |
| 63 | 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 | 10.2 | 17 |
| 62 | Land capability of multiple-landform watersheds with environmental land use conflicts. <i>Land Use Policy</i> , 2019 , 81, 689-704 | 5.6 | 17 |
| 61 | 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 | 10.2 | 16 |
| 60 | 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 | 3 | 14 |

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| 59 | Can Land Cover Changes Mitigate Large Floods? A Reflection Based on Partial Least Squares-Path Modeling. <i>Water (Switzerland)</i> , 2019 , 11, 684 | 3 | 13 |
| 58 | 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 | 1.7 | 13 |
| 57 | An Assessment of Groundwater Contamination Risk with Radon Based on Clustering and Structural Models. <i>Water (Switzerland)</i> , 2019 , 11, 1107 | 3 | 12 |
| 56 | 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 | 10.2 | 12 |
| 55 | 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 | 3.8 | 12 |
| 54 | 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 | 3 | 11 |
| 53 | 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 | 3 | 11 |
| 52 | 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 | 3 | 11 |
| 51 | 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 | 10.2 | 11 |
| 50 | 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 | 3.5 | 9 |
| 49 | Hydrologic Impacts of Land Use Changes in the Sabor River Basin: A Historical View and Future Perspectives. <i>Water (Switzerland)</i> , 2019 , 11, 1464 | 3 | 9 |
| 48 | Response to pumping of wells in sloping fault zone aquifers. <i>Journal of Hydrology</i> , 2002 , 259, 116-135 | 6 | 9 |
| 47 | A new radon prediction approach for an assessment of radiological potential in drinking water. <i>Science of the Total Environment</i> , 2020 , 712, 136427 | 10.2 | 9 |
| 46 | Undamming the Douro River Catchment: A Stepwise Approach for Prioritizing Dam Removal. <i>Water (Switzerland)</i> , 2019 , 11, 693 | 3 | 8 |
| 45 | The Potential of Small Dams for Conjunctive Water Management in Rural Municipalities. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16, | 4.6 | 8 |
| 44 | Sustainable Use of Soils and Water: The Role of Environmental Land Use Conflicts. <i>Sustainability</i> , 2020 , 12, 1163 | 3.6 | 8 |
| 43 | Hydrologic Modeling for Sustainable Water Resources Management in Urbanized Karst Areas. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16, | 4.6 | 8 |
| 42 | 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 | 3.5 | 8 |

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| 41 | 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 | 10.2 | 8 |
| 40 | 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 | 10.2 | 8 |
| 39 | An approach to validate groundwater contamination risk in rural mountainous catchments: the role of lateral groundwater flows. <i>MethodsX</i> , 2018 , 5, 1447-1455 | 1.9 | 8 |
| 38 | Hydraulic head response of a confined aquifer influenced by river stage fluctuations and mechanical loading. <i>Journal of Hydrology</i> , 2015 , 531, 716-727 | 6 | 7 |
| 37 | Occurrence of springs in massifs of crystalline rocks, northern Portugal. <i>Hydrogeology Journal</i> , 2002 , 10, 239-253 | 3.1 | 7 |
| 36 | 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 | 3 | 6 |
| 35 | Flood risk attenuation in critical zones of continental Portugal using sustainable detention basins. <i>Science of the Total Environment</i> , 2020 , 721, 137727 | 10.2 | 6 |
| 34 | 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, | 4.6 | 6 |
| 33 | 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 | 10.2 | 6 |
| 32 | 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 | 2.3 | 5 |
| 31 | 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> , 2021 , 809, 151157 | 10.2 | 5 |
| 30 | 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 | 0.7 | 5 |
| 29 | 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 | 10.2 | 5 |
| 28 | 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 | 3 | 4 |
| 27 | 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 | 3 | 4 |
| 26 | DRASTIC and GOD vulnerability maps of the Cabril River Basin, Portugal. <i>Revista Escola De Minas</i> , 2014 , 67, 133-142 | | 4 |
| 25 | PATH MODELLING ANALYSIS OF POLLUTION SOURCES AND ENVIRONMENTAL CONSEQUENCES IN RIVER BASINS 2018 , | | 4 |
| 24 | Integrating ecosystem services into sustainable landscape management: A collaborative approach. <i>Science of the Total Environment</i> , 2021 , 794, 148538 | 10.2 | 4 |

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| 23 | Water security threats and challenges following the rupture of large tailings dams.. <i>Science of the Total Environment</i> , 2022 , 155285 | 10.2 | 4 |
| 22 | Combination of Ecological Engineering Procedures Applied to Morphological Stabilization of Estuarine Banks after Dredging. <i>Water (Switzerland)</i> , 2020 , 12, 391 | 3 | 3 |
| 21 | 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 | | 3 |
| 20 | The Configuration of Forest Cover in Ribeir  Preto: A Diagnosis of Brazil  Forest Code Implementation. <i>Sustainability</i> , 2020 , 12, 5686 | 3.6 | 3 |
| 19 | 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 | 6.4 | 3 |
| 18 | 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 | 10.2 | 3 |
| 17 | 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 | 3 |
| 16 | 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 | 3.6 | 2 |
| 15 | 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> , 2022 , 14, 444 | 3 | 2 |
| 14 | 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> , 2021 , 152155 | 10.2 | 2 |
| 13 | Potential Impacts of Land Use Changes on Water Resources in a Tropical Headwater Catchment. <i>Water (Switzerland)</i> , 2021 , 13, 3249 | 3 | 1 |
| 12 | 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 | 10.2 | 1 |
| 11 | A raw water security risk model for urban supply based on failure mode analysis. <i>Journal of Hydrology</i> , 2021 , 593, 125843 | 6 | 1 |
| 10 | 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, | 4.6 | 1 |
| 9 | 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 | 10.2 | 1 |
| 8 | 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> , 2022 , 119341 | 9.3 | 1 |
| 7 | 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 | 3 | 1 |
| 6 | 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 | 3 | 0 |

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| 5 | Impact of anthropogenic pressures on wild mammals of Northern Portugal. <i>Veterinary World</i> , 2020 , 13, 2691-2702 | 1.7 | o |
| 4 | Hydrology and stream water quality of fire-prone watersheds. <i>Current Opinion in Environmental Science and Health</i> , 2021 , 21, 100243 | 8.1 | o |
| 3 | 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 , 156185 | 10.2 | o |
| 2 | The Role of Hydraulic Turnover Time in the Assessment of Water Quality in Portuguese Aquifer Systems. <i>Advances in Science, Technology and Innovation</i> , 2022 , 543-546 | 0.3 | |
| 1 | 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 | 4.4 | |