

LuÃ-s F Sanches Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

3,261
citations

159525

30
h-index

168321

53
g-index

108
all docs

108
docs citations

108
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	28
2	Seasonal Differences in Water Pollution and Liver Histopathology of Iberian Barbel (<i>Luciobarbus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 (Switzerland), 2022, 14, 444.	1.2	13
3	Water security threats and challenges following the rupture of large tailings dams. <i>Science of the Total Environment</i> , 2022, 834, 155285.	3.9	25
4	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,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.2	13
5	Water-Secure River Basins: A Compromise of Policy, Governance and Management with the Environment. <i>Water</i> (Switzerland), 2022, 14, 1329.	1.2	2
6	Role of Mine Tailings in the Spatio-Temporal Distribution of Phosphorus in River Water: The Case of B1 Dam Break in Brumadinho. <i>Water</i> (Switzerland), 2022, 14, 1572.	1.2	9
7	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.	3.9	16
8	A raw water security risk model for urban supply based on failure mode analysis. <i>Journal of Hydrology</i> , 2021, 593, 125843.	2.3	6
9	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.	3.9	18
10	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.	3.9	18
11	Mortality of wild amphibians and reptiles admitted to a Wildlife Rehabilitation Center in Northern Portugal (2009 â€“ 2017). <i>Russian Journal of Herpetology</i> , 2021, 28, 89-96.	0.2	0
12	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.	1.2	3
13	Hydrology and stream water quality of fire-prone watersheds. <i>Current Opinion in Environmental Science and Health</i> , 2021, 21, 100243.	2.1	5
14	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.	3.9	16
15	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.	3.9	9
16	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.	3.9	13
17	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.	1.8	1
18	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.	2.5	20

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19	Integrating ecosystem services into sustainable landscape management: A collaborative approach. <i>Science of the Total Environment</i> , 2021, 794, 148538.	3.9	23
20	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.	3.9	8
21	Potential Impacts of Land Use Changes on Water Resources in a Tropical Headwater Catchment. <i>Water (Switzerland)</i> , 2021, 13, 3249.	1.2	8
22	A new radon prediction approach for an assessment of radiological potential in drinking water. <i>Science of the Total Environment</i> , 2020, 712, 136427.	3.9	15
23	The Configuration of Forest Cover in Ribeirão Preto: A Diagnosis of Brazil's Forest Code Implementation. <i>Sustainability</i> , 2020, 12, 5686.	1.6	8
24	Watersheds, Anthropogenic Activities and the Role of Adaptation to Environmental Impacts. <i>Water (Switzerland)</i> , 2020, 12, 3451.	1.2	3
25	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.	1.2	5
26	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.	1.2	7
27	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.	1.2	5
28	Flood risk attenuation in critical zones of continental Portugal using sustainable detention basins. <i>Science of the Total Environment</i> , 2020, 721, 137727.	3.9	20
29	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.	1.2	7
30	Combination of Ecological Engineering Procedures Applied to Morphological Stabilization of Estuarine Banks after Dredging. <i>Water (Switzerland)</i> , 2020, 12, 391.	1.2	8
31	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.	0.3	7
32	EFFECT OF LANDSCAPE METRICS ON WATER QUALITY OVER THREE DECADES: A CASE STUDY OF THE AVE RIVER BASIN, PORTUGAL. , 2020, , .		3
33	Impact of anthropogenic pressures on wild mammals of Northern Portugal. <i>Veterinary World</i> , 2020, 13, 2691-2702.	0.7	1
34	A method for selecting suitable technical solutions to support sustainable riverbank stabilisation. <i>Area</i> , 2019, 51, 285-298.	1.0	9
35	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.	1.2	13
36	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.	3.9	26

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37	Hydrologic Modeling for Sustainable Water Resources Management in Urbanized Karst Areas. International Journal of Environmental Research and Public Health, 2019, 16, 2542.	1.2	29
38	Conjunctive Water Resources Management in Densely Urbanized Karst Areas: A Study in the Sete Lagoas Region, State of Minas Gerais, Brazil. Sustainability, 2019, 11, 3944.	1.6	4
39	Hydrologic Impacts of Land Use Changes in the Sabor River Basin: A Historical View and Future Perspectives. Water (Switzerland), 2019, 11, 1464.	1.2	15
40	A Regression Model of Stream Water Quality Based on Interactions between Landscape Composition and Riparian Buffer Width in Small Catchments. Water (Switzerland), 2019, 11, 1757.	1.2	22
41	The Role of Landscape Configuration, Season, and Distance from Contaminant Sources on the Degradation of Stream Water Quality in Urban Catchments. Water (Switzerland), 2019, 11, 2025.	1.2	21
42	The modeling of pasture conservation and of its impact on stream water quality using Partial Least Squares-Path Modeling. Science of the Total Environment, 2019, 697, 134081.	3.9	26
43	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. Water (Switzerland), 2019, 11, 1941.	1.2	12
44	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). Remote Sensing Applications: Society and Environment, 2019, 14, 20-33.	0.8	27
45	Undamming the Douro River Catchment: A Stepwise Approach for Prioritizing Dam Removal. Water (Switzerland), 2019, 11, 693.	1.2	12
46	An Assessment of Groundwater Contamination Risk with Radon Based on Clustering and Structural Models. Water (Switzerland), 2019, 11, 1107.	1.2	17
47	The Potential of Small Dams for Conjunctive Water Management in Rural Municipalities. International Journal of Environmental Research and Public Health, 2019, 16, 1239.	1.2	12
48	A structural equation model to predict macroinvertebrate-based ecological status in catchments influenced by anthropogenic pressures. Science of the Total Environment, 2019, 681, 242-257.	3.9	32
49	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. Water (Switzerland), 2019, 11, 760.	1.2	15
50	Can Land Cover Changes Mitigate Large Floods? A Reflection Based on Partial Least Squares-Path Modeling. Water (Switzerland), 2019, 11, 684.	1.2	18
51	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. Water (Switzerland), 2019, 11, 549.	1.2	46
52	Sustainable Safety Measures Applied in Construction. Studies in Systems, Decision and Control, 2019, , 125-133.	0.8	0
53	Natural and anthropogenic causes of mortality in wild birds in a wildlife rehabilitation centre in Northern Portugal: a ten-year study. Bird Study, 2019, 66, 484-493.	0.4	10
54	Land capability of multiple-landform watersheds with environmental land use conflicts. Land Use Policy, 2019, 81, 689-704.	2.5	28

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55	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.	3.9	9
56	Safety in Urban Rehabilitation Works of Drainage Networks. <i>Studies in Systems, Decision and Control</i> , 2019, , 115-123.	0.8	0
57	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
58	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.	3.9	57
59	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.	3.9	80
60	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.	3.2	7
61	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.	1.2	36
62	An approach to validate groundwater contamination risk in rural mountainous catchments: the role of lateral groundwater flows. <i>MethodsX</i> , 2018, 5, 1447-1455.	0.7	12
63	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.	1.2	4
64	Modification to the DRASTIC framework to assess groundwater contaminant risk in rural mountainous catchments. <i>Journal of Hydrology</i> , 2018, 566, 175-191.	2.3	39
65	Influence of Climate Change on the Design of Retention Basins in Northeastern Portugal. <i>Water (Switzerland)</i> , 2018, 10, 743.	1.2	6
66	Land degradation: Multiple environmental consequences and routes to neutrality. <i>Current Opinion in Environmental Science and Health</i> , 2018, 5, 79-86.	2.1	106
67	ANALYSIS OF HYDROLOGY AND WATER ALLOCATION WITH SWAT AND MIKE HYDRO BASIN IN THE SABOR RIVER BASIN, PORTUGAL. , 2018, , .		3
68	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
69	Assessing anthropogenic impacts on riverine ecosystems using nested partial least squares regression. <i>Science of the Total Environment</i> , 2017, 583, 466-477.	3.9	83
70	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.	4.4	25
71	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.	3.9	55
72	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.	2.3	82

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73	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.	3.9	78
74	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.	2.5	94
75	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.	2.5	42
76	A non-destructive method based on digital image processing for calculate the vigor and the vegetative expression of vines. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 289-294.	3.7	10
77	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.	3.9	81
78	Monitoring Methodology of Interventions for Riverbanks Stabilization: Assessment of Technical Solutions Performance. <i>Water Resources Management</i> , 2016, 30, 5281-5298.	1.9	9
79	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.	2.3	84
80	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.	3.9	110
81	Modelling the impacts of wildfires on runoff at the river basin ecological scale in a changing Mediterranean environment. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	10
82	From catchment to fish: Impact of anthropogenic pressures on gill histopathology. <i>Science of the Total Environment</i> , 2016, 550, 972-986.	3.9	62
83	Polynomial relation between mean shoot area and mean shoot weight for vigour calculation on cv. Touriga Nacional. <i>Oeno One</i> , 2016, 46, 275.	0.7	1
84	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.	3.9	101
85	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.	2.4	50
86	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.	3.9	77
87	Rainwater harvesting systems for low demanding applications. <i>Science of the Total Environment</i> , 2015, 529, 91-100.	3.9	87
88	Water resources planning for a river basin with recurrent wildfires. <i>Science of the Total Environment</i> , 2015, 526, 1-13.	3.9	61
89	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.	3.9	70
90	Impacts of land use conflicts on riverine ecosystems. <i>Land Use Policy</i> , 2015, 43, 48-62.	2.5	128

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91	Climate Change Impacts in the Design of Drainage Systems: Case Study of Portugal. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, .	0.6	20
92	Factor weighting in DRASTIC modeling. Science of the Total Environment, 2015, 505, 474-486.	3.9	109
93	Worker's safety at road works with high traffic. , 2015, , 447-452.		0
94	DRASTIC and GOD vulnerability maps of the Cabril River Basin, Portugal. Revista Escola De Minas, 2014, 67, 133-142.	0.1	6
95	Soil losses in rural watersheds with environmental land use conflicts. Science of the Total Environment, 2014, 485-486, 110-120.	3.9	147
96	Groundwater quality in rural watersheds with environmental land use conflicts. Science of the Total Environment, 2014, 493, 812-827.	3.9	95
97	The impact of climate change, human interference, scale and modeling uncertainties on the estimation of aquifer properties and river flow components. Journal of Hydrology, 2014, 519, 1297-1314.	2.3	81
98	Environmental land use conflicts: A threat to soil conservation. Land Use Policy, 2014, 41, 172-185.	2.5	126
99	The multivariate statistical structure of DRASTIC model. Journal of Hydrology, 2013, 476, 442-459.	2.3	77
100	Decision support systems in water resources in the demarcated region of Douro - case study in Pinhão river basin, Portugal. Water and Environment Journal, 2013, 28, n/a-n/a.	1.0	34
101	Exploratory assessment of groundwater vulnerability to pollution in the Sordo River Basin, Northeast of Portugal. Revista Escola De Minas, 2013, 66, 49-58.	0.1	6
102	A predictive modelling tool for assessing climate, land use and hydrological change on reservoir physicochemical and biological properties. Area, 2012, 44, 432-442.	1.0	20
103	Model of management and decision support systems in the distribution of water for consumption. European Journal of Environmental and Civil Engineering, 2011, 15, 411-426.	1.0	24
104	Model of management and decision support systems in the distribution of water for consumption. European Journal of Environmental and Civil Engineering, 2011, 15, 411-426.	1.0	9
105	Neural Networks in Water Resources Management. , 2001, , 1.		2
106	Methodological proposal for Payments for Environmental Services (PES) aiming to produce clean water in springs. Ciência E Natura, 0, 44, e23.	0.0	1