GonÃ§alo Vieira

List of Publications by Year
in descending order

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88 papers	3,579 citations	186209 28 h-index	138417 58 g-index
117 all docs	117 docs citations	117 times ranked	4967 citing authors

#	Article	IF	Citations
1	Permafrost is warming at a global scale. Nature Communications, 2019, 10, 264.	5.8	1,039
2	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	1.7	168
3	Thermal state of permafrost and activeâ€layer monitoring in the antarctic: Advances during the international polar year 2007â€“2009. Permafrost and Periglacial Processes, 2010, 21, 182-197.	1.5	167
4	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
5	Climate warming and permafrost dynamics in the Antarctic Peninsula region. Global and Planetary Change, 2013, 100, 215-223.	1.6	135
6	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	1.7	132
7	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	1.7	129
8	Integration of spatial and temporal data for the definition of different landslide hazard scenarios in the area north of Lisbon (Portugal). Natural Hazards and Earth System Sciences, 2004, 4, 133-146.	1.5	99
9	Permafrost conditions in the Mediterranean region since the Last Glaciation. Earth-Science Reviews, 2018, 185, 397-436.	4.0	81
10	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	1.7	78
11	Spatial and temporal variability of periglaciation of the Iberian Peninsula. Quaternary Science Reviews, 2016, 137, 176-199.	1.4	77
12	Sentinel-1 SAR Interferometry for Surface Deformation Monitoring in Low-Land Permafrost Areas. Remote Sensing, 2018, 10, 1360.	1.8	67
13	Ground temperature and permafrost distribution in Hurd Peninsula (Livingston Island, Maritime) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	65
14	Combined numerical and geomorphological reconstruction of the Serra da Estrela plateau icefield, Portugal. Geomorphology, 2008, 97, 190-207.	1.1	64
15	Climatically sensitive transfer of iron to maritime Antarctic ecosystems by surface runoff. Nature Communications, 2017, 8, 14499.	5.8	64
16	Monitoring recent changes of vegetation in Fildes Peninsula (King George Island, Antarctica) through satellite imagery guided by UAV surveys. Science of the Total Environment, 2020, 704, 135295.	3.9	50
17	Ground temperature regimes and geomorphological implications in a Mediterranean mountain (Serra) Tj ETQq1 1 0.784314 rgBT /Ov	1.1	42
18	Interannual active layer variability at the Limnopolar Lake CALM site on Byers Peninsula, Livingston Island, Antarctica. Antarctic Science, 2013, 25, 167-180.	0.5	41

#	Article	IF	Citations
19	Reforestation and land use change as drivers for a decrease of avalanche damage in mid-latitude mountains (NW Spain). Global and Planetary Change, 2017, 153, 35-50.	1.6	38
20	The Holocene deglaciation of the Byers Peninsula (Livingston Island, Antarctica) based on the dating of lake sedimentary records. Geomorphology, 2016, 261, 89-102.	1.1	36
21	Evaluation of water resources in a high-mountain basin in Serra da Estrela, Central Portugal, using a semi-distributed hydrological model. Environmental Earth Sciences, 2011, 62, 1219-1234.	1.3	34
22	Active layer dynamics in three topographically distinct lake catchments in Byers Peninsula (Livingston) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	34
23	Pan-Antarctic map of near-surface permafrost temperatures at 1â€‰km² scale. Cryosphere, 2020, 14, 497-519.	1.5	34
24	Geophysical identification of permafrost in Livingston Island, maritime Antarctica. Journal of Geophysical Research, 2007, 112, .	3.3	33
25	Microbes influence the biogeochemical and optical properties of maritime Antarctic snow. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1456-1470.	1.3	33
26	Granite geomorphology and its geological controls, Serra da Estrela, Portugal. Geomorphology, 2014, 226, 1-14.	1.1	32
27	A proxy for snow cover and winter ground surface cooling: Mapping Usnea sp. communities using high resolution remote sensing imagery (Maritime Antarctica). Geomorphology, 2014, 225, 69-75.	1.1	32
28	Recent shallowing of the thaw depth at Crater Lake, Deception Island, Antarctica (2006â€“2014). Catena, 2017, 149, 519-528.	2.2	31
29	Active layer monitoring in Antarctica: an overview of results from 2006 to 2015. Polar Geography, 2021, 44, 217-231.	0.8	30
30	Evaluation of UAV and satellite-derived NDVI to map maritime Antarctic vegetation. Applied Geography, 2020, 125, 102322.	1.7	28
31	Evaluation of the use of very high resolution aerial imagery for accurate ice-wedge polygon mapping (Adventdalen, Svalbard). Science of the Total Environment, 2018, 615, 1574-1583.	3.9	27
32	Land cover classification using highâ€resolution aerial photography in adventdalen, svalbard. Geografiska Annaler, Series A: Physical Geography, 2015, 97, 473-488.	0.6	26
33	Evaluation of the ground surface Enthalpy balance from bedrock temperatures (Livingston Island,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	24
34	Soil temperatures in an Atlantic high mountain environment: The Forcadona buried ice patch (Picos de) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	23
35	Sedimentological characteristics of ice-wedge polygon terrain in Adventdalen (Svalbard) â€“ environmental and climatic implications for the late Holocene. Solid Earth, 2014, 5, 901-914.	1.2	22
36	Local influences of geothermal anomalies on permafrost distribution in an active volcanic island (Deception Island, Antarctica). Geomorphology, 2014, 225, 57-68.	1.1	22

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37	New observations indicate the possible presence of permafrost in North Africa (Djebel Toubkal, High) Tj ETQq1 1 0.784314 rgBT /Ove	1.5	22
38	State of knowledge: Antarctic wildlife response to unmanned aerial systems. Polar Biology, 2018, 41, 2387-2398.	0.5	22
39	UAVs for Science in Antarctica. Remote Sensing, 2022, 14, 1610.	1.8	22
40	Drilling and installation of boreholes for permafrost thermal monitoring on Livingston Island in the maritime Antarctic. Permafrost and Periglacial Processes, 2009, 20, 57-64.	1.5	21
41	Susceptibility modelling of hummocky terrain distribution using the information value method (Deception Island, Antarctic Peninsula). Geomorphology, 2012, 155-156, 88-95.	1.1	21
42	Soils and Landforms at Hope Bay, Antarctic Peninsula: Formation, Classification, Distribution, and Relationships. Soil Science Society of America Journal, 2015, 79, 175-184.	1.2	20
43	Oblique rainfall and contemporary geomorphological dynamics(Serra da Estrela, Portugal). Hydrological Processes, 2004, 18, 807-824.	1.1	17
44	Thermal conductivity and thermal diffusivity of cores from a 26 meter deep borehole drilled in Livingston Island, Maritime Antarctic. Geomorphology, 2012, 155-156, 7-11.	1.1	17
45	Detailed detection of active layer freezeâ€“thaw dynamics using quasi-continuous electrical resistivity tomography (Deception Island, Antarctica). Cryosphere, 2020, 14, 1105-1120.	1.5	17
46	The deglaciation of Barton Peninsula (King George Island, South Shetland Islands, Antarctica) based on geomorphological evidence and lacustrine records. Polar Record, 2019, 55, 177-188.	0.4	16
47	Identification of a Threshold Minimum Area for Reflectance Retrieval from Thermokarst Lakes and Ponds Using Full-Pixel Data from Sentinel-2. Remote Sensing, 2019, 11, 657.	1.8	16
48	Accurate determination of surface reference data in digital photographs in ice-free surfaces of Maritime Antarctica. Science of the Total Environment, 2016, 573, 290-302.	3.9	14
49	Active layer thermal regime in two climatically contrasted sites of the Antarctic Peninsula region. Cuadernos De Investigacion Geografica, 2016, 42, 457-474.	0.6	13
50	Frozen ground and snow cover monitoring in the South Shetland Islands, Antarctica: Instrumentation, effects on ground thermal behaviour and future research. Cuadernos De Investigacion Geografica, 2016, 42, 475-495.	0.6	12
51	Transition from a Subaerial to a Subnival Permafrost Temperature Regime Following Increased Snow Cover (Livingston Island, Maritime Antarctic). Atmosphere, 2020, 11, 1332.	1.0	10
52	Penultimate Glacial Cycle glacier extent in the Iberian Peninsula: New evidence from the Serra da Estrela (Central System, Portugal). Geomorphology, 2021, 388, 107781.	1.1	10
53	Evaluation of single-band snow-patch mapping using high-resolution microwave remote sensing: an application in the maritime Antarctic. Cryosphere, 2017, 11, 139-155.	1.5	9
54	UAV-based very high resolution point cloud, digital surface model and orthomosaic of the ChÃ£ das Caldeiras lava fields (Fogo, Cabo Verde). Earth System Science Data, 2021, 13, 3179-3201.	3.7	9

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55	Feasibility Study for the Application of Synthetic Aperture Radar for Coastal Erosion Rate Quantification Across the Arctic. Frontiers in Environmental Science, 2020, 8, .	1.5	8
56	Frozen ground and snow cover monitoring in Livingston and Deception islands, Antarctica: preliminary results of the 2015-2019 PERMASNOW project. Cuadernos De Investigacion Geografica, 2020, 46, 187-222.	0.6	8
57	Paraglacial slope failures in the Aran valley (Central Pyrenees). Quaternary International, 2020, 566-567, 24-38.	0.7	7
58	Structural Characterization of Dissolved Organic Matter in Permafrost Peatland Lakes. Water (Switzerland), 2020, 12, 3059.	1.2	7
59	The Climate of Portugal. World Geomorphological Landscapes, 2020, , 33-46.	0.1	7
60	Maximum glacier extent of the Penultimate Glacial Cycle in the Upper Garonne Basin (Pyrenees): new chronological evidence. Environmental Earth Sciences, 2021, 80, 1.	1.3	7
61	Evaluation of Envisat ASAR IMP imagery for snow mapping at varying spatial resolution (Deception) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	6
62	Glacial oscillations during the BÃ¸llingâ€“AllerÃ¸d Interstadialâ€“Younger Dryas transition in the Ruda Valley, Central Pyrenees. Journal of Quaternary Science, 2022, 37, 42-58.	1.1	5
63	Î³-tubulin is differentially expressed in mitotic and non-mitotic cardiomyocytes in the regenerating zebrafish heart. Data in Brief, 2015, 3, 71-77.	0.5	4
64	Glacial and Periglacial Landscapes of the Serra da Estrela. World Geomorphological Landscapes, 2020, , 185-198.	0.1	4
65	Macrofabric and grain size analysis of moraines and other till deposits in the Serra da Estrela Mountains, central Portugal. Physical Geography, 2022, 43, 238-264.	0.6	3
66	Reconstructing cold climate paleoenvironments from micromorphological analysis of relict slope deposits (Serra da Estrela, Central Portugal). Permafrost and Periglacial Processes, 2020, 31, 567-586.	1.5	3
67	Geomorphology of the Aran Valley (Upper Garonne Basin, Central Pyrenees). Journal of Maps, 2022, 18, 219-231.	1.0	3
68	Contrasting soil dynamics in a formerly glaciated and non-glaciated Mediterranean mountain plateau (Serra da Estrela, Portugal). Catena, 2022, 215, 106314.	2.2	3
69	VariaÃ§Ãµes da frente da geleira Polar Club, PenÃnsula Potter (ilha Rei George, AntÃ¡rtica MarÃtima) entre 1986 e 2011. Revista Brasileira De Meteorologia, 2014, 29, 379-388.	0.2	2
70	Report from the International Permafrost Association: Fourth European Conference on Permafrost (EUCOP4). Permafrost and Periglacial Processes, 2014, 25, 344-348.	1.5	2
71	Mitigation of atmospheric phase delay in InSAR time series using ERA-interim model, GPS and MODIS data: Application to the permafrost deformation in Hurd Peninsula, Antarctica. , 2015, , .		2
72	The glaciers of Serra da Estrela. , 2022, , 417-435.		2

#	Article	IF	Citations
73	Metodologias de anÃ¡lise e de classificaÃ§Ã£o das paisagens. O exemplo do projecto Estrela. Finisterra, 2012, 36, .	0.3	2
74	Daily minimum air temperatures in the Serra da Estrela, Portugal. Finisterra, 2012, 36, .	0.3	2
75	Multiscale Object-Based Classification and Feature Extraction along Arctic Coasts. Remote Sensing, 2022, 14, 2982.	1.8	2
76	A acÃ§Ã£o dos pipekrakes na morfogÃ©nese actual na Serra do GerÃªs. Finisterra, 2012, 31, .	0.3	1
77	Climas locais da ArrÃ¡bida no Inverno. Finisterra, 2012, 28, .	0.3	1
78	Desportos de Inverno na Serra da Estrela. Finisterra, 2012, 27, .	0.3	1
79	I Workshop Portugal e a AntÃ¡rctida e a preparaÃ§Ã£o das actividades portuguesas no Ã¢mbito do Ano Polar Internacional 2007-08. Finisterra, 2012, 40, .	0.3	0
80	The Permafrost Young Researchers Network. Finisterra, 2012, 44, .	0.3	0
81	3.Âª ReuniÃ£o do QuaternÃ¡rio IbÃ©rico (Coimbra, 1993). Finisterra, 2012, 29, .	0.3	0
82	ReuniÃ£o e excursÃ£o da Comission on Climate Change and Periglacial Environments IGU. Finisterra, 2012, 33, .	0.3	0
83	IntegraÃ§Ã£o de dados espaciais em SIG para avaliaÃ§Ã£o da susceptibilidade de ocorrÃªncia de deslizamentos. Finisterra, 2012, 38, .	0.3	0
84	The International Polar Year 2007-08 and the development of portuguese research on Antarctic permafrost. Finisterra, 2012, 44, .	0.3	0
85	La investigaciÃ³n en geomorfologÃa periglaciar en EspaÃ±a y Portugal. EvoluciÃ³n reciente y estudios actuales. Finisterra, 2012, 41, .	0.3	0
86	Results of Geoelectrical Surveys in the Area of Crater 70, Deception Island, Maritime Antarctica. , 2015, , .		0
87	Automatic ERT Monitoring System Installation at Crater Lake, Deception Island, Antarctica. , 2018, , .		0
88	ULTRA-HIGH RESOLUTION MAPS AND MODELS AS TOOLS FOR MANAGING AND MONITORING ENVIRONMENTALLY SENSITIVE GEOSITES (ESTRELA UNESCO GLOBAL GEOPARK, PORTUGAL). International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B4-2022, 553-558.	0.2	0