

Paulo Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

141
papers

6,633
citations

70961

41
h-index

71532

76
g-index

150
all docs

150
docs citations

150
times ranked

5765
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of prescribed burning effectiveness in fire hazard reduction. <i>International Journal of Wildland Fire</i> , 2003, 12, 117.	1.0	510
2	Modelling natural disturbances in forest ecosystems: a review. <i>Ecological Modelling</i> , 2011, 222, 903-924.	1.2	318
3	Prescribed burning in southern Europe: developing fire management in a dynamic landscape. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, e4.	1.9	268
4	Wildfire management in Mediterranean-type regions: paradigm change needed. <i>Environmental Research Letters</i> , 2020, 15, 011001.	2.2	267
5	Defining Extreme Wildfire Events: Difficulties, Challenges, and Impacts. <i>Fire</i> , 2018, 1, 9.	1.2	254
6	Fire-related traits for plant species of the Mediterranean Basin. <i>Ecology</i> , 2009, 90, 1420-1420.	1.5	217
7	The fire ecology and management of maritime pine (<i>Pinus pinaster</i> Ait.). <i>Forest Ecology and Management</i> , 2007, 241, 1-13.	1.4	212
8	Fire resistance of European pines. <i>Forest Ecology and Management</i> , 2008, 256, 246-255.	1.4	195
9	Fire-smart management of forest landscapes in the Mediterranean basin under global change. <i>Landscape and Urban Planning</i> , 2013, 110, 175-182.	3.4	187
10	Climate change impact on future wildfire danger and activity in southern Europe: a review. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	170
11	Fire spread prediction in shrub fuels in Portugal. <i>Forest Ecology and Management</i> , 2001, 144, 67-74.	1.4	148
12	Combining forest structure data and fuel modelling to classify fire hazard in Portugal. <i>Annals of Forest Science</i> , 2009, 66, 415-415.	0.8	132
13	A generic, empirical-based model for predicting rate of fire spread in shrublands. <i>International Journal of Wildland Fire</i> , 2015, 24, 443.	1.0	123
14	Post-fire tree mortality in mixed forests of central Portugal. <i>Forest Ecology and Management</i> , 2010, 260, 1184-1192.	1.4	122
15	Plant flammability experiments offer limited insight into vegetation-fire dynamics interactions. <i>New Phytologist</i> , 2012, 194, 606-609.	3.5	119
16	The dynamics and drivers of fuel and fire in the Portuguese public forest. <i>Journal of Environmental Management</i> , 2014, 146, 373-382.	3.8	103
17	Bottom-Up Variables Govern Large-Fire Size in Portugal. <i>Ecosystems</i> , 2016, 19, 1362-1375.	1.6	85
18	Shrubland fire behaviour modelling with microplot data. <i>Canadian Journal of Forest Research</i> , 2000, 30, 889-899.	0.8	83

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19	Assessing the effect of a fuel break network to reduce burnt area and wildfire risk transmission. <i>International Journal of Wildland Fire</i> , 2016, 25, 619.	1.0	83
20	Portugal and Chile: Longing for sustainable forestry while rising from the ashes. <i>Environmental Science and Policy</i> , 2018, 81, 104-107.	2.4	81
21	Fire behaviour and severity in a maritime pine stand under differing fuel conditions. <i>Annals of Forest Science</i> , 2004, 61, 537-544.	0.8	80
22	Empirical Support for the Use of Prescribed Burning as a Fuel Treatment. <i>Current Forestry Reports</i> , 2015, 1, 118-127.	3.4	80
23	Empirical modelling of surface fire behaviour in maritime pine stands. <i>International Journal of Wildland Fire</i> , 2009, 18, 698.	1.0	80
24	The role of fire in UK peatland and moorland management: the need for informed, unbiased debate. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150342.	1.8	78
25	Characteristics and controls of extremely large wildfires in the western Mediterranean Basin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2141-2157.	1.3	77
26	Potential for CO2 emissions mitigation in Europe through prescribed burning in the context of the Kyoto Protocol. <i>Forest Ecology and Management</i> , 2007, 251, 164-173.	1.4	74
27	Global patterns in fire leverage: the response of annual area burnt to previous fire. <i>International Journal of Wildland Fire</i> , 2015, 24, 297.	1.0	72
28	Analysis of the prescribed burning practice in the pine forest of northwestern Portugal. <i>Journal of Environmental Management</i> , 2004, 70, 15-26.	3.8	71
29	Changes in wildfire severity from maritime pine woodland to contiguous forest types in the mountains of northwestern Portugal. <i>Forest Ecology and Management</i> , 2010, 260, 883-892.	1.4	68
30	Development of fuel models for fire behaviour prediction in maritime pine (<i>Pinus pinaster</i> Ait.) stands. <i>International Journal of Wildland Fire</i> , 2008, 17, 194.	1.0	66
31	Forest Fires in Mediterranean Countries: CO2 Emissions and Mitigation Possibilities Through Prescribed Burning. <i>Environmental Management</i> , 2011, 48, 558-567.	1.2	63
32	Natural establishment of <i>Eucalyptus globulus</i> Labill. in burnt stands in Portugal. <i>Forest Ecology and Management</i> , 2014, 323, 47-56.	1.4	63
33	The role of fire-suppression force in limiting the spread of extremely large forest fires in Portugal. <i>European Journal of Forest Research</i> , 2016, 135, 253-262.	1.1	62
34	Analysing eucalypt expansion in Portugal as a fire-regime modifier. <i>Science of the Total Environment</i> , 2019, 666, 79-88.	3.9	62
35	Farmland abandonment decreases the fire regulation capacity and the fire protection ecosystem service in mountain landscapes. <i>Ecosystem Services</i> , 2019, 36, 100908.	2.3	60
36	Fuel age, weather and burn probability in Portugal. <i>International Journal of Wildland Fire</i> , 2012, 21, 380.	1.0	58

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37	Cohesive fire management within an uncertain environment: A review of risk handling and decision support systems. <i>Forest Ecology and Management</i> , 2015, 347, 1-17.	1.4	56
38	Cork Oak Vulnerability to Fire: The Role of Bark Harvesting, Tree Characteristics and Abiotic Factors. <i>PLoS ONE</i> , 2012, 7, e39810.	1.1	55
39	Development of a model system to predict wildfire behaviour in pine plantations. <i>Australian Forestry</i> , 2008, 71, 113-121.	0.3	49
40	Using fuel and weather variables to predict the sustainability of surface fire spread in maritime pine stands. <i>Canadian Journal of Forest Research</i> , 2008, 38, 190-201.	0.8	47
41	Hot fire, cool soil. <i>Geophysical Research Letters</i> , 2013, 40, 1534-1539.	1.5	47
42	Post-fire response variability in Mediterranean Basin tree species in Portugal. <i>International Journal of Wildland Fire</i> , 2013, 22, 919.	1.0	42
43	A fire behaviour-based fire danger classification for maritime pine stands: Comparison of two approaches. <i>Forest Ecology and Management</i> , 2006, 234, S54.	1.4	41
44	Wildfire patterns and landscape changes in Mediterranean oak woodlands. <i>Science of the Total Environment</i> , 2015, 536, 338-352.	3.9	40
45	Forest Fires in Portugal: Dynamics, Causes and Policies. <i>World Forests</i> , 2014, , 97-115.	0.1	39
46	Implications of future bioclimatic shifts on Portuguese forests. <i>Regional Environmental Change</i> , 2017, 17, 117-127.	1.4	38
47	Improving silvicultural practices for Mediterranean forests through fire behaviour modelling using LiDAR-derived canopy fuel characteristics. <i>International Journal of Wildland Fire</i> , 2019, 28, 823.	1.0	38
48	Developing allometric models to predict the individual aboveground biomass of shrubs worldwide. <i>Global Ecology and Biogeography</i> , 2019, 28, 961-975.	2.7	37
49	Examining fuel treatment longevity through experimental and simulated surface fire behaviour: a maritime pine case study. <i>Canadian Journal of Forest Research</i> , 2009, 39, 2529-2535.	0.8	36
50	A laboratory-based quantification of the effect of live fuel moisture content on fire spread rate. <i>International Journal of Wildland Fire</i> , 2016, 25, 569.	1.0	34
51	Evaluating fire growth simulations using satellite active fire data. <i>Remote Sensing of Environment</i> , 2017, 190, 302-317.	4.6	34
52	Fuel modelling in terrestrial ecosystems: An overview in the context of the development of an object-orientated database for wild fire analysis. <i>Ecological Modelling</i> , 2009, 220, 2915-2926.	1.2	33
53	Deciphering the impact of uncertainty on the accuracy of large wildfire spread simulations. <i>Science of the Total Environment</i> , 2016, 569-570, 73-85.	3.9	33
54	Variation in the Canadian Fire Weather Index Thresholds for Increasingly Larger Fires in Portugal. <i>Forests</i> , 2019, 10, 838.	0.9	32

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55	A model of shrub biomass accumulation as a tool to support management of Portuguese forests. <i>IForest</i> , 2015, 8, 114-125.	0.5	31
56	Shrub fuel characteristics estimated from overstory variables in NW Spain pine stands. <i>Forest Ecology and Management</i> , 2012, 275, 130-141.	1.4	30
57	Effects of grazing on plant composition, conservation status and ecosystem services of Natura 2000 shrub-grassland habitat types. <i>Biodiversity and Conservation</i> , 2019, 28, 1205-1224.	1.2	30
58	Post-Fire Management of Serotinous Pine Forests. <i>Managing Forest Ecosystems</i> , 2012, , 121-150.	0.4	30
59	Fuel dynamics following fire hazard reduction treatments in blue gum (<i>Eucalyptus globulus</i>) plantations in Portugal. <i>Forest Ecology and Management</i> , 2017, 398, 185-195.	1.4	29
60	Fire spread predictions: Sweeping uncertainty under the rug. <i>Science of the Total Environment</i> , 2017, 592, 187-196.	3.9	29
61	Fire-severity mitigation by prescribed burning assessed from fire-treatment encounters in maritime pine stands. <i>Canadian Journal of Forest Research</i> , 2019, 49, 205-211.	0.8	29
62	Forest fires in Galicia (Spain): The outcome of unbalanced fire management. <i>Journal of Forest Economics</i> , 2008, 14, 155-157.	0.1	28
63	Scientific support to prescribed underburning in southern Europe: What do we know?. <i>Science of the Total Environment</i> , 2018, 630, 340-348.	3.9	27
64	PiroPinus: A spreadsheet application to guide prescribed burning operations in maritime pine forest. <i>Computers and Electronics in Agriculture</i> , 2012, 81, 58-61.	3.7	26
65	Probabilistic fire spread forecast as a management tool in an operational setting. <i>SpringerPlus</i> , 2016, 5, 1205.	1.2	26
66	Occurrence of native and exotic invasive trees in burned pine and eucalypt plantations: Implications for post-fire forest conversion. <i>Ecological Engineering</i> , 2013, 58, 296-302.	1.6	25
67	Understanding the Impact of Different Landscape-Level Fuel Management Strategies on Wildfire Hazard in Central Portugal. <i>Forests</i> , 2021, 12, 522.	0.9	25
68	Fine fuels consumption and CO2 emissions from surface fire experiments in maritime pine stands in northern Portugal. <i>Forest Ecology and Management</i> , 2013, 291, 344-356.	1.4	23
69	Using density management diagrams to assess crown fire potential in <i>Pinus pinaster</i> Ait. stands. <i>Annals of Forest Science</i> , 2014, 71, 473-484.	0.8	23
70	Post-fire plant diversity and abundance in pine and eucalypt stands in Portugal: Effects of biogeography, topography, forest type and post-fire management. <i>Forest Ecology and Management</i> , 2014, 334, 154-162.	1.4	21
71	Setting the Scene for Post-Fire Management. <i>Managing Forest Ecosystems</i> , 2012, , 1-19.	0.4	21
72	A New Method to Estimate Fuel Surface Area-to-Volume Ratio Using Water Immersion.. <i>International Journal of Wildland Fire</i> , 1998, 8, 121.	1.0	20

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73	The FIRE PARADOX project: Towards science-based fire management in Europe. <i>Forest Ecology and Management</i> , 2011, 261, 2177-2178.	1.4	20
74	Post-fire live residuals of maritime pine plantations in Portugal: Structure, burn severity, and fire recurrence. <i>Forest Ecology and Management</i> , 2015, 347, 170-179.	1.4	20
75	Coupling fire behaviour modelling and stand characteristics to assess and mitigate fire hazard in a maritime pine landscape in Portugal. <i>European Journal of Forest Research</i> , 2017, 136, 527-542.	1.1	20
76	Empirical Modeling of Fire Spread Rate in No-Wind and No-Slope Conditions. <i>Forest Science</i> , 2018, 64, 358-370.	0.5	20
77	Live Fuel Moisture Content: The "Pea Under the Mattress"™ of Fire Spread Rate Modeling?. <i>Fire</i> , 2018, 1, 43.	1.2	20
78	Survival of prescribed burning treatments to wildfire in Portugal. <i>Forest Ecology and Management</i> , 2021, 493, 119250.	1.4	20
79	Post-fire forest management in southern Europe: a COST action for gathering and disseminating scientific knowledge. <i>IForest</i> , 2010, 3, 5-7.	0.5	19
80	Fire Hazard and Flammability of European Forest Types. <i>Managing Forest Ecosystems</i> , 2012, , 79-92.	0.4	19
81	The role of holm oak edges in the control of disturbance and conservation of plant diversity in fire-prone landscapes. <i>Forest Ecology and Management</i> , 2013, 297, 37-48.	1.4	18
82	On the reactive nature of forest fire-related legislation in Portugal: A comment on Mourão and Martinho (2016). <i>Land Use Policy</i> , 2017, 60, 12-15.	2.5	18
83	Short communication: On the effect of live fuel moisture content on fire-spread rate. <i>Forest Systems</i> , 2018, 26, eSC08.	0.1	18
84	Evidence for lack of a fuel effect on forest and shrubland fire rates of spread under elevated fire danger conditions: implications for modelling and management. <i>International Journal of Wildland Fire</i> , 2022, 31, 471-479.	1.0	17
85	Microclimate and Modeled Fire Behavior Differ Between Adjacent Forest Types in Northern Portugal. <i>Forests</i> , 2014, 5, 2490-2504.	0.9	16
86	Fuel-related fire-behaviour relationships for mixed live and dead fuels burned in the laboratory. <i>Canadian Journal of Forest Research</i> , 2017, 47, 883-889.	0.8	16
87	Regeneration of Native Forest Species in Mainland Portugal: Identifying Main Drivers. <i>Forests</i> , 2018, 9, 694.	0.9	16
88	Pre-fire aboveground biomass, estimated from LiDAR, spectral and field inventory data, as a major driver of burn severity in maritime pine (<i>Pinus pinaster</i>) ecosystems. <i>Forest Ecosystems</i> , 2022, 9, 100022.	1.3	15
89	Vegetation structure descriptors regulating the presence of wild rabbit in the National Park of Peneda-Gerês, Portugal. <i>European Journal of Wildlife Research</i> , 2004, 50, 1-6.	0.7	14
90	(Wild)fire is not an ecosystem service. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 429-430.	1.9	14

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91	Climate regulation ecosystem services and biodiversity conservation are enhanced differently by climate- and fire-smart landscape management. <i>Environmental Research Letters</i> , 2022, 17, 054014.	2.2	14
92	Evaluating the 10% wind speed rule of thumb for estimating a wildfire's forward rate of spread against an extensive independent set of observations. <i>Environmental Modelling and Software</i> , 2020, 133, 104818.	1.9	13
93	Fire from the Sky in the Anthropocene. <i>Fire</i> , 2021, 4, 13.	1.2	13
94	On the development of a regional climate change adaptation plan: Integrating model-assisted projections and stakeholders' perceptions. <i>Science of the Total Environment</i> , 2022, 805, 150320.	3.9	13
95	Evaluating the effect of prescribed burning on the reduction of wildfire extent in Portugal. <i>Forest Ecology and Management</i> , 2022, 519, 120302.	1.4	13
96	Survival to prescribed fire of plantation-grown Corsican black pine in northern Portugal. <i>Annals of Forest Science</i> , 2012, 69, 813-820.	0.8	12
97	The Canadian fire weather index system and wildfire activity in the Karst forest management area, Slovenia. <i>European Journal of Forest Research</i> , 2012, 131, 829-834.	1.1	12
98	An Empirical Model for the Effect of Wind on Fire Spread Rate. <i>Fire</i> , 2018, 1, 31.	1.2	12
99	Assessing the drivers and the recruitment potential of <i>Eucalyptus globulus</i> in the Iberian Peninsula. <i>Forest Ecology and Management</i> , 2020, 466, 118147.	1.4	12
100	Regional livestock grazing, human demography and fire incidence in the Portuguese landscape. <i>Forest Systems</i> , 2014, 23, 15.	0.1	12
101	Unravelling the effect of climate change on fire danger and fire behaviour in the Transboundary Biosphere Reserve of Meseta Ib�rica (Portugal-Spain). <i>Climatic Change</i> , 2022, 173, .	1.7	12
102	Upscaling the estimation of surface-fire rate of spread in maritime pine (<i>Pinus pinaster</i> Ait.) forest. <i>IForest</i> , 2014, 7, 123-125.	0.5	11
103	The role of weather and climate conditions on extreme wildfires. , 2020, , 55-72.		11
104	Measuring foliar moisture content with a moisture analyzer. <i>Canadian Journal of Forest Research</i> , 2015, 45, 776-781.	0.8	10
105	Ungulates mediate trade-offs between carbon storage and wildfire hazard in Mediterranean oak woodlands. <i>Journal of Applied Ecology</i> , 2019, 56, 699-710.	1.9	10
106	Wildfire policies contribution to foster extreme wildfires. , 2020, , 187-200.		9
107	RATES OF SURFACE FIRE SPREAD IN A YOUNG CALABRIAN PINE (<i>Pinus brutia</i> Ten.) PLANTATION. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1475-1480.	0.2	9
108	On the socioeconomic drivers of municipal-level fire incidence in Portugal. <i>Forest Policy and Economics</i> , 2016, 62, 187-188.	1.5	8

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109	Short-Term Recovery of the Aboveground Carbon Stock in Iberian Shrublands at the Extremes of an Environmental Gradient and as a Function of Burn Severity. <i>Forests</i> , 2022, 13, 145.	0.9	8
110	Fire Country: How Indigenous Fire Management Could Help Save Australia. <i>International Journal of Wildland Fire</i> , 2020, 29, 1052.	1.0	7
111	Trade-offs between fire hazard reduction and conservation in a Natura 2000 shrub-grassland mosaic. <i>Applied Vegetation Science</i> , 2020, 23, 39-52.	0.9	6
112	The peatland vegetation burning debate: keep scientific critique in perspective. A response to Brown et al. and Douglas et al.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160434.	1.8	5
113	COMPORTAMENTO DO FOGO EM DIFERENTES PERÍODOS E CONFIGURAÇÕES DE UMA PAISAGEM NO NORDESTE DE PORTUGAL. <i>Ciencia Florestal</i> , 2017, 27, 457-469.	0.1	5
114	Informed debate on the use of fire for peatland management means acknowledging the complexity of socio-ecological systems. <i>Nature Conservation</i> , 0, 16, 59-77.	0.0	4
115	Fine-tuning the BFOLDS Fire Regime Module to support the assessment of fire-related functions and services in a changing Mediterranean mountain landscape. <i>Environmental Modelling and Software</i> , 2022, 155, 105464.	1.9	4
116	Sustainable Fire Management. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-11.	0.0	3
117	O utjecaju pojedinih parametara izvedenih iz Rothermelovog modela ravnotežne toplinske energije na stopu širenja požara. <i>Sumarski List</i> , 2018, 142, 80-80.	0.1	2
118	Fire Regimes, Landscape Dynamics, and Landscape Management. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2021, , 421-507.	0.1	2
119	Integrated Fire Management. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2021, , 509-597.	0.1	2
120	Drivers of wildland fire behaviour variation across the Earth. , 0, , 1267-1270.		2
121	Chemical Conditions for Ignition. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2021, , 7-18.	0.1	1
122	Extreme Fires. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2021, , 175-257.	0.1	1
123	Climate-driven variability in vegetation greenness over Portugal. <i>Climate Research</i> , 2018, 76, 95-113.	0.4	1
124	Is native forest an alternative to prevent wildfire in the WUI in Central Portugal?. , 2021, , 67-77.		1
125	Assessing the fire tolerance of forest species in New Caledonian savanna: modelling choices do matter. <i>Journal of Vegetation Science</i> , 2013, 24, 1208-1211.	1.1	0
126	Fuel Dynamics and Management. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2021, , 363-420.	0.1	0

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127	Futuring: Trends in Fire Science and Management. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 599-631.	0.1	0
128	Fire Effects on Plants, Soils, and Animals. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 259-318.	0.1	0
129	From Fuels to Smoke: Chemical Processes. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 19-37.	0.1	0
130	Fire and People. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 319-357.	0.1	0
131	Fire Propagation. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 115-174.	0.1	0
132	Heat Production. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 39-62.	0.1	0
133	Heat for Pre-ignition and Flames. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 63-77.	0.1	0
134	Exploring the capability to forecast wildfires: spatial modelling of the Tavira/SÃ£o BrÃ¡s de Alportel 2012 wildfire. , 0, , 736-748.		0
135	Improving wildfire spread simulations using MODIS active fires: the FIRE-MODSAT project. , 0, , 811-822.		0
136	Modelling fine fuel moisture content and the likelihood of fire spread in blue gum (Eucalyptus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382		
137	Addressing trade-offs among fuel management scenarios through a dynamic and spatial integrated approach for enhanced decision-making in eucalyptus forest. , 0, , 1623-1627.		0
138	Sustainable Fire Management. Encyclopedia of the UN Sustainable Development Goals, 2021, , 1001-1010.	0.0	0
139	Searching for a COVID-19 effect on wildfire activity in Portugal but not finding it: A comment on Sci. Total Environ. 765, 142793. Science of the Total Environment, 2022, 821, 153173.	3.9	0
140	Evaluating the Effect of Prescribed Burning on the Reduction of Wildfire Extent in Portugal. SSRN Electronic Journal, 0, , .	0.4	0
141	Field-tested laboratory-derived models to predict forest fire front spread rate. , 0, , 1278-1279.		0