Paulo Fernandes

List of Publications by Year
in descending order

141 papers	6,633 citations	71102 41 h-index	71685 76 g-index
150 all docs	150 docs citations	150 times ranked	5765 citing authors

#	Article	IF	Citations
1	On the development of a regional climate change adaptation plan: Integrating model-assisted projections and stakeholders' perceptions. Science of the Total Environment, 2022, 805, 150320.	8.0	13
2	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. Forests, 2022, 13, 145.	2.1	8
3	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.	8.0	0
4	Pre-fire aboveground biomass, estimated from LiDAR, spectral and field inventory data, as a major driver of burn severity in maritime pine (Pinus pinaster) ecosystems. Forest Ecosystems, 2022, 9, 100022.	3.1	15
5	Climate regulation ecosystem services and biodiversity conservation are enhanced differently by climate- and fire-smart landscape management. Environmental Research Letters, 2022, 17, 054014.	5.2	14
6	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. International Journal of Wildland Fire, 2022, 31, 471-479.	2.4	17
7	Evaluating the effect of prescribed burning on the reduction of wildfire extent in Portugal. Forest Ecology and Management, 2022, 519, 120302.	3.2	13
8	Unravelling the effect of climate change on fire danger and fire behaviour in the Transboundary Biosphere Reserve of Meseta IbÃ©rica (Portugal-Spain). Climatic Change, 2022, 173, .	3.6	12
9	Fine-tuning the BFOLDS Fire Regime Module to support the assessment of fire-related functions and services in a changing Mediterranean mountain landscape. Environmental Modelling and Software, 2022, 155, 105464.	4.5	4
10	Fuel Dynamics and Management. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 363-420.	0.3	0
11	Futuring: Trends in Fire Science and Management. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 599-631.	0.3	0
12	Chemical Conditions for Ignition. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 7-18.	0.3	1
13	Fire Effects on Plants, Soils, and Animals. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 259-318.	0.3	0
14	From Fuels to Smoke: Chemical Processes. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 19-37.	0.3	0
15	Fire and People. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 319-357.	0.3	0
16	Fire Regimes, Landscape Dynamics, and Landscape Management. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 421-507.	0.3	2
17	Fire from the Sky in the Anthropocene. Fire, 2021, 4, 13.	2.8	13
18	Understanding the Impact of Different Landscape-Level Fuel Management Strategies on Wildfire Hazard in Central Portugal. Forests, 2021, 12, 522.	2.1	25

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19	Survival of prescribed burning treatments to wildfire in Portugal. Forest Ecology and Management, 2021, 493, 119250.	3.2	20
20	Extreme Fires. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 175-257.	0.3	1
21	Integrated Fire Management. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 509-597.	0.3	2
22	Fire Propagation. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 115-174.	0.3	0
23	Heat Production. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 39-62.	0.3	0
24	Heat for Pre-ignition and Flames. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 63-77.	0.3	0
25	Sustainable Fire Management. Encyclopedia of the UN Sustainable Development Goals, 2021, , 1001-1010.	0.1	0
26	Is native forest an alternative to prevent wildfire in the WUI in Central Portugal?. , 2021, , 67-77.		1
27	Wildfire management in Mediterranean-type regions: paradigm change needed. Environmental Research Letters, 2020, 15, 011001.	5.2	267
28	Tradeâ€offs between fire hazard reduction and conservation in a Natura 2000 shrubâ€“grassland mosaic. Applied Vegetation Science, 2020, 23, 39-52.	1.9	6
29	The role of weather and climate conditions on extreme wildfires. , 2020, , 55-72.		11
30	Wildfire policies contribution to foster extreme wildfires. , 2020, , 187-200.		9
31	Evaluating the 10% wind speed rule of thumb for estimating a wildfire's forward rate of spread against an extensive independent set of observations. Environmental Modelling and Software, 2020, 133, 104818.	4.5	13
32	Climate change impact on future wildfire danger and activity in southern Europe: a review. Annals of Forest Science, 2020, 77, 1.	2.0	170
33	Assessing the drivers and the recruitment potential of Eucalyptus globulus in the Iberian Peninsula. Forest Ecology and Management, 2020, 466, 118147.	3.2	12
34	Sustainable Fire Management. Encyclopedia of the UN Sustainable Development Goals, 2020, , 1-11.	0.1	3
35	Fire Country: How Indigenous Fire Management Could Help Save Australia. International Journal of Wildland Fire, 2020, 29, 1052.	2.4	7
36	(Wild)fire is not an ecosystem service. Frontiers in Ecology and the Environment, 2019, 17, 429-430.	4.0	14

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37	Variation in the Canadian Fire Weather Index Thresholds for Increasingly Larger Fires in Portugal. Forests, 2019, 10, 838.	2.1	32
38	Developing allometric models to predict the individual aboveground biomass of shrubs worldwide. Global Ecology and Biogeography, 2019, 28, 961-975.	5.8	37
39	Farmland abandonment decreases the fire regulation capacity and the fire protection ecosystem service in mountain landscapes. Ecosystem Services, 2019, 36, 100908.	5.4	60
40	Effects of grazing on plant composition, conservation status and ecosystem services of Natura 2000 shrub-grassland habitat types. Biodiversity and Conservation, 2019, 28, 1205-1224.	2.6	30
41	Analysing eucalypt expansion in Portugal as a fire-regime modifier. Science of the Total Environment, 2019, 666, 79-88.	8.0	62
42	Improving silvicultural practices for Mediterranean forests through fire behaviour modelling using LiDAR-derived canopy fuel characteristics. International Journal of Wildland Fire, 2019, 28, 823.	2.4	38
43	Ungulates mediate tradeâ€offs between carbon storage and wildfire hazard in Mediterranean oak woodlands. Journal of Applied Ecology, 2019, 56, 699-710.	4.0	10
44	Fire-severity mitigation by prescribed burning assessed from fire-treatment encounters in maritime pine stands. Canadian Journal of Forest Research, 2019, 49, 205-211.	1.7	29
45	Scientific support to prescribed underburning in southern Europe: What do we know?. Science of the Total Environment, 2018, 630, 340-348.	8.0	27
46	Empirical Modeling of Fire Spread Rate in No-Wind and No-Slope Conditions. Forest Science, 2018, 64, 358-370.	1.0	20
47	Portugal and Chile: Longing for sustainable forestry while rising from the ashes. Environmental Science and Policy, 2018, 81, 104-107.	4.9	81
48	Regeneration of Native Forest Species in Mainland Portugal: Identifying Main Drivers. Forests, 2018, 9, 694.	2.1	16
49	An Empirical Model for the Effect of Wind on Fire Spread Rate. Fire, 2018, 1, 31.	2.8	12
50	Live Fuel Moisture Content: The â€˜Pea Under the Mattressâ€™ of Fire Spread Rate Modeling?. Fire, 2018, 1, 43.	2.8	20
51	O utjecaju pojedinih parametara loÅ¾iÅ¡ta izvedenih iz Rothermelovog modela ravnoteÅ¾e toplinske energije na stopu Å¡irenja poÅ¾ara. Sumarski List, 2018, 142, 80-80.	0.3	2
52	Defining Extreme Wildfire Events: Difficulties, Challenges, and Impacts. Fire, 2018, 1, 9.	2.8	254
53	Climate-driven variability in vegetation greenness over Portugal. Climate Research, 2018, 76, 95-113.	1.1	1
54	Short communication: On the effect of live fuel moisture content on fire-spread rate. Forest Systems, 2018, 26, eSC08.	0.3	18

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55	Implications of future bioclimatic shifts on Portuguese forests. Regional Environmental Change, 2017, 17, 117-127.	2.9	38
56	Evaluating fire growth simulations using satellite active fire data. Remote Sensing of Environment, 2017, 190, 302-317.	11.0	34
57	Fuel-related fire-behaviour relationships for mixed live and dead fuels burned in the laboratory. Canadian Journal of Forest Research, 2017, 47, 883-889.	1.7	16
58	Fuel dynamics following fire hazard reduction treatments in blue gum (Eucalyptus globulus) plantations in Portugal. Forest Ecology and Management, 2017, 398, 185-195.	3.2	29
59	Coupling fire behaviour modelling and stand characteristics to assess and mitigate fire hazard in a maritime pine landscape in Portugal. European Journal of Forest Research, 2017, 136, 527-542.	2.5	20
60	Fire spread predictions: Sweeping uncertainty under the rug. Science of the Total Environment, 2017, 592, 187-196.	8.0	29
61	On the reactive nature of forest fire-related legislation in Portugal: A comment on MourÃ£o and Martinho (2016). Land Use Policy, 2017, 60, 12-15.	5.6	18
62	COMPORTAMENTO DO FOGO EM DIFERENTES PERÃODOS E CONFIGURAÃ‡Ã•ES DE UMA PAISAGEM NO NORDESTE DE PORTUGAL. Ciencia Florestal, 2017, 27, 457-469.	0.3	5
63	The peatland vegetation burning debate: keep scientific critique in perspective. A response to Brown et al . and Douglas et al .. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20160434.	4.0	5
64	Probabilistic fire spread forecast as a management tool in an operational setting. SpringerPlus, 2016, 5, 1205.	1.2	26
65	Assessing the effect of a fuel break network to reduce burnt area and wildfire risk transmission. International Journal of Wildland Fire, 2016, 25, 619.	2.4	83
66	A laboratory-based quantification of the effect of live fuel moisture content on fire spread rate. International Journal of Wildland Fire, 2016, 25, 569.	2.4	34
67	Bottom-Up Variables Govern Large-Fire Size in Portugal. Ecosystems, 2016, 19, 1362-1375.	3.4	85
68	Characteristics and controls of extremely large wildfires in the western Mediterranean Basin. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2141-2157.	3.0	77
69	Deciphering the impact of uncertainty on the accuracy of large wildfire spread simulations. Science of the Total Environment, 2016, 569-570, 73-85.	8.0	33
70	The role of fire in UK peatland and moorland management: the need for informed, unbiased debate. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150342.	4.0	78
71	The role of fire-suppression force in limiting the spread of extremely large forest fires in Portugal. European Journal of Forest Research, 2016, 135, 253-262.	2.5	62
72	On the socioeconomic drivers of municipal-level fire incidence in Portugal. Forest Policy and Economics, 2016, 62, 187-188.	3.4	8

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73	Global patterns in fire leverage: the response of annual area burnt to previous fire. International Journal of Wildland Fire, 2015, 24, 297.	2.4	72
74	A model of shrub biomass accumulation as a tool to support management of Portuguese forests. IForest, 2015, 8, 114-125.	1.4	31
75	Wildfire patterns and landscape changes in Mediterranean oak woodlands. Science of the Total Environment, 2015, 536, 338-352.	8.0	40
76	Measuring foliar moisture content with a moisture analyzer. Canadian Journal of Forest Research, 2015, 45, 776-781.	1.7	10
77	A generic, empirical-based model for predicting rate of fire spread in shrublands. International Journal of Wildland Fire, 2015, 24, 443.	2.4	123
78	Post-fire live residuals of maritime pine plantations in Portugal: Structure, burn severity, and fire recurrence. Forest Ecology and Management, 2015, 347, 170-179.	3.2	20
79	Empirical Support for the Use of Prescribed Burning as a Fuel Treatment. Current Forestry Reports, 2015, 1, 118-127.	7.4	80
80	Cohesive fire management within an uncertain environment: A review of risk handling and decision support systems. Forest Ecology and Management, 2015, 347, 1-17.	3.2	56
81	Microclimate and Modeled Fire Behavior Differ Between Adjacent Forest Types in Northern Portugal. Forests, 2014, 5, 2490-2504.	2.1	16
82	Upscaling the estimation of surface-fire rate of spread in maritime pine (Pinus pinaster Ait.) forest. IForest, 2014, 7, 123-125.	1.4	11
83	Natural establishment of Eucalyptus globulus Labill. in burnt stands in Portugal. Forest Ecology and Management, 2014, 323, 47-56.	3.2	63
84	Using density management diagrams to assess crown fire potential in Pinus pinaster Ait. stands. Annals of Forest Science, 2014, 71, 473-484.	2.0	23
85	Post-fire plant diversity and abundance in pine and eucalypt stands in Portugal: Effects of biogeography, topography, forest type and post-fire management. Forest Ecology and Management, 2014, 334, 154-162.	3.2	21
86	The dynamics and drivers of fuel and fire in the Portuguese public forest. Journal of Environmental Management, 2014, 146, 373-382.	7.8	103
87	Forest Fires in Portugal: Dynamics, Causes and Policies. World Forests, 2014, , 97-115.	0.1	39
88	Regional livestock grazing, human demography and fire incidence in the Portuguese landscape. Forest Systems, 2014, 23, 15.	0.3	12
89	Occurrence of native and exotic invasive trees in burned pine and eucalypt plantations: Implications for post-fire forest conversion. Ecological Engineering, 2013, 58, 296-302.	3.6	25
90	Fine fuels consumption and CO2 emissions from surface fire experiments in maritime pine stands in northern Portugal. Forest Ecology and Management, 2013, 291, 344-356.	3.2	23

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91	Prescribed burning in southern Europe: developing fire management in a dynamic landscape. Frontiers in Ecology and the Environment, 2013, 11, e4.	4.0	268
92	Hot fire, cool soil. Geophysical Research Letters, 2013, 40, 1534-1539.	4.0	47
93	The role of holm oak edges in the control of disturbance and conservation of plant diversity in fire-prone landscapes. Forest Ecology and Management, 2013, 297, 37-48.	3.2	18
94	Fire-smart management of forest landscapes in the Mediterranean basin under global change. Landscape and Urban Planning, 2013, 110, 175-182.	7.5	187
95	Assessing the fire tolerance of forest species in <scp>N</scp>ew <scp>C</scp>aledonian savanna: modelling choices do matter. Journal of Vegetation Science, 2013, 24, 1208-1211.	2.2	0
96	Post-fire response variability in Mediterranean Basin tree species in Portugal. International Journal of Wildland Fire, 2013, 22, 919.	2.4	42
97	Survival to prescribed fire of plantation-grown Corsican black pine in northern Portugal. Annals of Forest Science, 2012, 69, 813-820.	2.0	12
98	Plant flammability experiments offer limited insight into vegetationâ€“fire dynamics interactions. New Phytologist, 2012, 194, 606-609.	7.3	119
99	Shrub fuel characteristics estimated from overstory variables in NW Spain pine stands. Forest Ecology and Management, 2012, 275, 130-141.	3.2	30
100	Fire Hazard and Flammability of European Forest Types. Managing Forest Ecosystems, 2012, , 79-92.	0.9	19
101	Fuel age, weather and burn probability in Portugal. International Journal of Wildland Fire, 2012, 21, 380.	2.4	58
102	Cork Oak Vulnerability to Fire: The Role of Bark Harvesting, Tree Characteristics and Abiotic Factors. PLoS ONE, 2012, 7, e39810.	2.5	55
103	The Canadian fire weather index system and wildfire activity in the Karst forest management area, Slovenia. European Journal of Forest Research, 2012, 131, 829-834.	2.5	12
104	PiroPinus: A spreadsheet application to guide prescribed burning operations in maritime pine forest. Computers and Electronics in Agriculture, 2012, 81, 58-61.	7.7	26
105	Setting the Scene for Post-Fire Management. Managing Forest Ecosystems, 2012, , 1-19.	0.9	21
106	Post-Fire Management of Serotinous Pine Forests. Managing Forest Ecosystems, 2012, , 121-150.	0.9	30
107	RATES OF SURFACE FIRE SPREAD IN A YOUNG CALABRIAN PINE (Pinus brutia Ten.) PLANTATION. Environmental Engineering and Management Journal, 2012, 11, 1475-1480.	0.6	9
108	The FIRE PARADOX project: Towards science-based fire management in Europe. Forest Ecology and Management, 2011, 261, 2177-2178.	3.2	20

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109	Modelling natural disturbances in forest ecosystems: a review. Ecological Modelling, 2011, 222, 903-924.	2.5	318
110	Forest Fires in Mediterranean Countries: CO2 Emissions and Mitigation Possibilities Through Prescribed Burning. Environmental Management, 2011, 48, 558-567.	2.7	63
111	Post-fire forest management in southern Europe: a COST action for gathering and disseminating scientific knowledge. IForest, 2010, 3, 5-7.	1.4	19
112	Changes in wildfire severity from maritime pine woodland to contiguous forest types in the mountains of northwestern Portugal. Forest Ecology and Management, 2010, 260, 883-892.	3.2	68
113	Post-fire tree mortality in mixed forests of central Portugal. Forest Ecology and Management, 2010, 260, 1184-1192.	3.2	122
114	Fuel modelling in terrestrial ecosystems: An overview in the context of the development of an object-orientated database for wild fire analysis. Ecological Modelling, 2009, 220, 2915-2926.	2.5	33
115	Combining forest structure data and fuel modelling to classify fire hazard in Portugal. Annals of Forest Science, 2009, 66, 415-415.	2.0	132
116	Examining fuel treatment longevity through experimental and simulated surface fire behaviour: a maritime pine case study. Canadian Journal of Forest Research, 2009, 39, 2529-2535.	1.7	36
117	Fireâ€related traits for plant species of the Mediterranean Basin. Ecology, 2009, 90, 1420-1420.	3.2	217
118	Empirical modelling of surface fire behaviour in maritime pine stands. International Journal of Wildland Fire, 2009, 18, 698.	2.4	80
119	Forest fires in Galicia (Spain): The outcome of unbalanced fire management. Journal of Forest Economics, 2008, 14, 155-157.	0.2	28
120	Fire resistance of European pines. Forest Ecology and Management, 2008, 256, 246-255.	3.2	195
121	Development of a model system to predict wildfire behaviour in pine plantations. Australian Forestry, 2008, 71, 113-121.	0.9	49
122	Using fuel and weather variables to predict the sustainability of surface fire spread in maritime pine stands. Canadian Journal of Forest Research, 2008, 38, 190-201.	1.7	47
123	Development of fuel models for fire behaviour prediction in maritime pine (Pinus pinaster Ait.) stands. International Journal of Wildland Fire, 2008, 17, 194.	2.4	66
124	The fire ecology and management of maritime pine (Pinus pinaster Ait.). Forest Ecology and Management, 2007, 241, 1-13.	3.2	212
125	Potential for CO2 emissions mitigation in Europe through prescribed burning in the context of the Kyoto Protocol. Forest Ecology and Management, 2007, 251, 164-173.	3.2	74
126	A fire behaviour-based fire danger classification for maritime pine stands: Comparison of two approaches. Forest Ecology and Management, 2006, 234, S54.	3.2	41

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127	Vegetation structure descriptors regulating the presence of wild rabbit in the National Park of Peneda-Gerï¿½s, Portugal. European Journal of Wildlife Research, 2004, 50, 1-6.	1.4	14
128	Analysis of the prescribed burning practice in the pine forest of northwestern Portugal. Journal of Environmental Management, 2004, 70, 15-26.	7.8	71
129	Fire behaviour and severity in a maritime pine stand under differing fuel conditions. Annals of Forest Science, 2004, 61, 537-544.	2.0	80
130	A review of prescribed burning effectiveness in fire hazard reduction. International Journal of Wildland Fire, 2003, 12, 117.	2.4	510
131	Fire spread prediction in shrub fuels in Portugal. Forest Ecology and Management, 2001, 144, 67-74.	3.2	148
132	Shrubland fire behaviour modelling with microplot data. Canadian Journal of Forest Research, 2000, 30, 889-899.	1.7	83
133	A New Method to Estimate Fuel Surface Area-to-Volume Ratio Using Water Immersion.. International Journal of Wildland Fire, 1998, 8, 121.	2.4	20
134	Drivers of wildland fire behaviour variation across the Earth. , 0, , 1267-1270.		2
135	Informed debate on the use of fire for peatland management means acknowledging the complexity of socio-ecological systems. Nature Conservation, 0, 16, 59-77.	0.0	4
136	Exploring the capability to forecast wildfires: spatial modelling of the Tavira/SÃ£o BrÃ¡s de Alportel 2012 wildfire. , 0, , 736-748.		0
137	Improving wildfire spread simulations using MODIS active fires: the FIRE-MODSAT project. , 0, , 811-822.		0
138	Modelling fine fuel moisture content and the likelihood of fire spread in blue gum (Eucalyptus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302		0
139	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
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