

Mark A Cochrane

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

14,297
citations

70961

41
h-index

43802

91
g-index

102
all docs

102
docs citations

102
times ranked

12516
citing authors

#	ARTICLE	IF	CITATIONS
1	Fire in the Earth System. <i>Science</i> , 2009, 324, 481-484.	6.0	2,330
2	Climate-induced variations in global wildfire danger from 1979 to 2013. <i>Nature Communications</i> , 2015, 6, 7537.	5.8	1,224
3	Large-scale impoverishment of Amazonian forests by logging and fire. <i>Nature</i> , 1999, 398, 505-508.	13.7	1,137
4	Fire science for rainforests. <i>Nature</i> , 2003, 421, 913-919.	13.7	922
5	Positive Feedbacks in the Fire Dynamic of Closed Canopy Tropical Forests. <i>Science</i> , 1999, 284, 1832-1835.	6.0	847
6	The human dimension of fire regimes on Earth. <i>Journal of Biogeography</i> , 2011, 38, 2223-2236.	1.4	845
7	ENVIRONMENT: The Future of the Brazilian Amazon. <i>Science</i> , 2001, 291, 438-439.	6.0	715
8	Roads, deforestation, and the mitigating effect of protected areas in the Amazon. <i>Biological Conservation</i> , 2014, 177, 203-209.	1.9	412
9	Fire as a large-scale edge effect in Amazonian forests. <i>Journal of Tropical Ecology</i> , 2002, 18, 311-325.	0.5	398
10	Human exposure and sensitivity to globally extreme wildfire events. <i>Nature Ecology and Evolution</i> , 2017, 1, 58.	3.4	359
11	Fire as a Recurrent Event in Tropical Forests of the Eastern Amazon: Effects on Forest Structure, Biomass, and Species Composition ¹ . <i>Biotropica</i> , 1999, 31, 2-16.	0.8	313
12	Combining spectral and spatial information to map canopy damage from selective logging and forest fires. <i>Remote Sensing of Environment</i> , 2005, 98, 329-343.	4.6	304
13	Fire as a Recurrent Event in Tropical Forests of the Eastern Amazon: Effects on Forest Structure, Biomass, and Species Composition. <i>Biotropica</i> , 1999, 31, 2.	0.8	286
14	Synergistic Interactions between Habitat Fragmentation and Fire in Evergreen Tropical Forests. <i>Conservation Biology</i> , 2001, 15, 1515-1521.	2.4	243
15	Fire regimes of Australia: a pyrogeographic model system. <i>Journal of Biogeography</i> , 2013, 40, 1048-1058.	1.4	215
16	Climate change, human land use and future fires in the Amazon. <i>Global Change Biology</i> , 2009, 15, 601-612.	4.2	202
17	Ten-Year Landsat Classification of Deforestation and Forest Degradation in the Brazilian Amazon. <i>Remote Sensing</i> , 2013, 5, 5493-5513.	1.8	198
18	Synergisms among Fire, Land Use, and Climate Change in the Amazon. <i>Ambio</i> , 2008, 37, 522-527.	2.8	187

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19	Field measurements of trace gases and aerosols emitted by peat fires in Central Kalimantan, Indonesia, during the 2015 El Niño. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11711-11732.	1.9	161
20	The Science of Firescapes: Achieving Fire-Resilient Communities. <i>BioScience</i> , 2016, 66, 130-146.	2.2	157
21	Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences. <i>Global Change Biology</i> , 2017, 23, 977-982.	4.2	114
22	Forest Fires in the Brazilian Amazon. <i>Conservation Biology</i> , 1998, 12, 948-950.	2.4	107
23	Forest fire management, climate change, and the risk of catastrophic carbon losses. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 66-67.	1.9	104
24	Tropical Fire Ecology. , 2009, , .		102
25	The critical importance of considering fire in REDD+ programs. <i>Biological Conservation</i> , 2012, 154, 1-8.	1.9	95
26	Quantification of MODIS fire radiative power (FRP) measurement uncertainty for use in satellite-based active fire characterization and biomass burning estimation. <i>Geophysical Research Letters</i> , 2014, 41, 1988-1994.	1.5	94
27	Conservation Threat of Increasing Fire Frequencies in the Western Ghats, India. <i>Conservation Biology</i> , 2004, 18, 1553-1561.	2.4	87
28	A comparative analysis of spatial, temporal, and ecological characteristics of forest fires in seasonally dry tropical ecosystems in the Western Ghats, India. <i>Forest Ecology and Management</i> , 2008, 256, 607-617.	1.4	82
29	ECOLOGY: National Forests in the Amazon. <i>Science</i> , 2002, 297, 1478-1478.	6.0	80
30	Assessing fuel treatment effectiveness using satellite imagery and spatial statistics. <i>Ecological Applications</i> , 2009, 19, 1377-1384.	1.8	75
31	Chemical characterization of fine particulate matter emitted by peat fires in Central Kalimantan, Indonesia, during the 2015 El Niño. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2585-2600.	1.9	66
32	In the line of Fire Understanding the Impacts of Tropical Forest Fires. <i>Environment</i> , 2001, 43, 28-38.	0.8	62
33	Effects of distance from canal and degradation history on peat bulk density in a degraded tropical peatland. <i>Science of the Total Environment</i> , 2020, 699, 134199.	3.9	56
34	Carbon emissions from deforestation and forest fragmentation in the Brazilian Amazon. <i>Environmental Research Letters</i> , 2011, 6, 044003.	2.2	54
35	Assessment of Tropical Forest Degradation with Canopy Fractional Cover from Landsat ETM+ and IKONOS Imagery. <i>Earth Interactions</i> , 2005, 9, 1-18.	0.7	53
36	Pyrogeographic models, feedbacks and the future of global fire regimes. <i>Global Ecology and Biogeography</i> , 2014, 23, 821-824.	2.7	51

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37	Fire Frequency and Related Land-Use and Land-Cover Changes in Indonesia's Peatlands. <i>Remote Sensing</i> , 2020, 12, 5.	1.8	50
38	Measurement of inter- and intra-annual variability of landscape fire activity at a continental scale: the Australian case. <i>Environmental Research Letters</i> , 2016, 11, 035003.	2.2	49
39	Pyrogeography, historical ecology, and the human dimensions of fire regimes. <i>Journal of Biogeography</i> , 2014, 41, 833-836.	1.4	47
40	Dynamic performance assessment of protected areas. <i>Biological Conservation</i> , 2012, 149, 6-14.	1.9	45
41	Fire and edge effects in a fragmented tropical forest landscape in the southwestern Amazon. <i>Forest Ecology and Management</i> , 2017, 401, 135-146.	1.4	44
42	Manage fire regimes, not fires. <i>Nature Geoscience</i> , 2021, 14, 455-457.	5.4	44
43	Future changes in climatic water balance determine potential for transformational shifts in Australian fire regimes. <i>Environmental Research Letters</i> , 2016, 11, 065002.	2.2	43
44	Evaluation of Landsat-Based METRIC Modeling to Provide High-Spatial Resolution Evapotranspiration Estimates for Amazonian Forests. <i>Remote Sensing</i> , 2017, 9, 46.	1.8	42
45	FIRE IN THE BRAZILIAN AMAZON: A SPATIALLY EXPLICIT MODEL FOR POLICY IMPACT ANALYSIS*. <i>Journal of Regional Science</i> , 2007, 47, 541-567.	2.1	41
46	Quantifying the influence of previously burned areas on suppression effectiveness and avoided exposure: a case study of the Las Conchas Fire. <i>International Journal of Wildland Fire</i> , 2016, 25, 167.	1.0	40
47	Biomass consumption by surface fires across Earth's most fire prone continent. <i>Global Change Biology</i> , 2019, 25, 254-268.	4.2	39
48	Quantifying Responses of Dung Beetles to Fire Disturbance in Tropical Forests: The Importance of Trapping Method and Seasonality. <i>PLoS ONE</i> , 2011, 6, e26208.	1.1	38
49	Does inherent flammability of grass and litter fuels contribute to continental patterns of landscape fire activity?. <i>Journal of Biogeography</i> , 2017, 44, 1225-1238.	1.4	38
50	Wildfires in Bamboo-Dominated Amazonian Forest: Impacts on Above-Ground Biomass and Biodiversity. <i>PLoS ONE</i> , 2012, 7, e33373.	1.1	36
51	Priority Areas for Establishing National Forests in the Brazilian Amazon. <i>Ecology and Society</i> , 2002, 6, .	0.9	33
52	Biomass collapse and carbon emissions from forest fragmentation in the Brazilian Amazon. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
53	Estimating California ecosystem carbon change using process model and land cover disturbance data: 1951-2000. <i>Ecological Modelling</i> , 2011, 222, 2333-2341.	1.2	31
54	A Multi-Taxa Assessment of Biodiversity Change After Single and Recurrent Wildfires in a Brazilian Amazon Forest. <i>Biotropica</i> , 2016, 48, 170-180.	0.8	31

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55	Fire and fire ecology: Concepts and principles. , 2009, , 25-62.		30
56	Beyond slash&burn: The roles of human activities, altered hydrology and fuels in peat fires in Central Kalimantan, Indonesia. Singapore Journal of Tropical Geography, 2020, 41, 190-208.	0.6	29
57	Monitoring Selective Logging in Tropical Evergreen Forests Using Landsat: Multitemporal Regional Analyses in Mato Grosso, Brazil. Earth Interactions, 2005, 9, 1-24.	0.7	28
58	Long-term Changes in Bird Communities after Wildfires in the Central Brazilian Amazon. Biotropica, 2013, 45, 480-488.	0.8	28
59	Evaluating accuracy of four MODIS-derived burned area products for tropical peatland and non-peatland fires. Environmental Research Letters, 2021, 16, 035015.	2.2	28
60	Fire intensity impacts on post-fire temperate coniferous forest net primary productivity. Biogeosciences, 2018, 15, 1173-1183.	1.3	27
61	Tropical forest fires and biodiversity: dung beetle community and biomass responses in a northern Brazilian Amazon forest. Journal of Insect Conservation, 2014, 18, 1097-1104.	0.8	26
62	Forest degradation promotes fire during drought in moist tropical forests of Ghana. Forest Ecology and Management, 2019, 440, 158-168.	1.4	26
63	Landsat still contributing to environmental research. Trends in Ecology and Evolution, 2008, 23, 182-183.	4.2	25
64	Prescribed burning protects endangered tropical heathlands of the Arnhem Plateau, northern Australia. Journal of Applied Ecology, 2015, 52, 980-991.	1.9	25
65	The responses of leaf litter ant communities to wildfires in the Brazilian Amazon: a multi-region assessment. Biodiversity and Conservation, 2013, 22, 513-529.	1.2	24
66	Critical land change information enhances the understanding of carbon balance in the United States. Global Change Biology, 2020, 26, 3920-3929.	4.2	24
67	Analyzing the Impacts of Frequency and Severity of Forest Fire on the Recovery of Disturbed Forest using Landsat Time Series and EO-1 Hyperion in the Southern Brazilian Amazon. Earth Interactions, 2011, 15, 1-17.	0.7	21
68	Biotic congruence in humid tropical forests: A multi-taxa examination of spatial distribution and responses to forest disturbance. Ecological Indicators, 2014, 36, 572-581.	2.6	21
69	A Decade Long, Multi-Scale Map Comparison of Fire Regime Parameters Derived from Three Publicly Available Satellite-Based Fire Products: A Case Study in the Central African Republic. Remote Sensing, 2014, 6, 4061-4089.	1.8	20
70	Wildfires in Amazonia: A pilot study examining the role of farming systems, social capital, and fire contagion. Journal of Latin American Geography, 2004, 3, 81-95.	0.0	19
71	Sustainability: A Touchstone Concept for University Operations, Education, and Research. Conservation Biology, 1996, 10, 1308-1311.	2.4	18
72	A hybrid visual estimation method for the collection of ground truth fractional coverage data in a humid tropical environment. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 504-514.	1.4	17

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73	Relationships between fire danger and the daily number and daily growth of active incidents burning in the northern Rocky Mountains, USA. <i>International Journal of Wildland Fire</i> , 2015, 24, 900.	1.0	17
74	Dynamics of a human-modified tropical peat swamp forest revealed by repeat lidar surveys. <i>Global Change Biology</i> , 2020, 26, 3947-3964.	4.2	17
75	A quantitative study of the proximity of satellite detected active fires to roads and rivers in the Brazilian tropical moist forest biome. <i>International Journal of Wildland Fire</i> , 2014, 23, 532.	1.0	16
76	Impacts of changing fire weather conditions on reconstructed trends in U.S. wildland fire activity from 1979 to 2014. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2856-2876.	1.3	16
77	Forest Fragmentation and Its Potential Implications in the Brazilian Amazon between 2001 and 2010. <i>Open Journal of Forestry</i> , 2012, 02, 265-271.	0.1	16
78	The Forests Are Bleeding: How Land Use Change Is Creating a New Fire Regime in the Ecuadorian Amazon. <i>Journal of Latin American Geography</i> , 2007, 6, 85-100.	0.0	15
79	Detection of Fire Smoke Plumes Based on Aerosol Scattering Using VIIRS Data over Global Fire-Prone Regions. <i>Remote Sensing</i> , 2021, 13, 196.	1.8	15
80	17. Selective Logging, Forest Fragmentation, and Fire Disturbance. , 2004, , 310-324.		15
81	Determining dynamics of spatial and temporal structures of forest edges in South Western Amazonia. <i>Forest Ecology and Management</i> , 2009, 258, 2547-2555.	1.4	14
82	Fire, land use, land cover dynamics, and climate change in the Brazilian Amazon. , 2009, , 389-426.		14
83	Fire in the tropics. , 2009, , 1-23.		13
84	Long-term, high-spatial resolution carbon balance monitoring of the Amazonian frontier: Predisturbance and postdisturbance carbon emissions and uptake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 400-411.	1.3	13
85	Large wildfire driven increases in nighttime fire activity observed across CONUS from 2003-2020. <i>Remote Sensing of Environment</i> , 2022, 268, 112777.	4.6	13
86	Investigating Smoke Aerosol Emission Coefficients Using MODIS Active Fire and Aerosol Products: A Case Study in the CONUS and Indonesia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1413-1429.	1.3	12
87	A Field Study of Tropical Peat Fire Behaviour and Associated Carbon Emissions. <i>Fire</i> , 2022, 5, 62.	1.2	11
88	Fire Scars on Amazonian Trees: Exploring the Cryptic Fire History of the Ilha de Maracá. <i>Biotropica</i> , 2010, 42, 405-409.	0.8	9
89	Forest fire regimes and their ecological effects in seasonally dry tropical ecosystems in the Western Ghats, India. , 2009, , 335-354.		8
90	Responses of leaf-litter ant communities to tropical forest wildfires vary with season. <i>Journal of Tropical Ecology</i> , 2012, 28, 515-518.	0.5	8

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91	Forest evapotranspiration dynamics over a fragmented forest landscape under drought in southwestern Amazonia. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108446.	1.9	8
92	Burning questions about ecosystems. <i>Nature Geoscience</i> , 2019, 12, 86-87.	5.4	6
93	Forest and Peatland Fire Dynamics in South Sumatra Province. <i>Forest and Society</i> , 0, , 591-603.	0.3	6
94	Why estimates of the peat burned in fires in Sumatra and Kalimantan are unreliable and why it matters. <i>Singapore Journal of Tropical Geography</i> , 2022, 43, 7-25.	0.6	6
95	Integrating Disparate Lidar Data at the National Scale to Assess the Relationships between Height Above Ground, Land Cover and Ecoregions. <i>Photogrammetric Engineering and Remote Sensing</i> , 2014, 80, 59-70.	0.3	5
96	Drainage canal impacts on smoke aerosol emissions for Indonesian peatland and non-peatland fires. <i>Environmental Research Letters</i> , 2021, 16, 095008.	2.2	5
97	Footprints in the Jungle: Natural Resource Industries, Infrastructure and Biodiversity Conservation EDITED BY IAN A. BOWLES AND GLENN T. PRICKETT xix + 331 pp., 18 figs., 13 tables, 24 Å— 16 Å— 3.5 cm, ISBN 0 19 512578 9 hardback, US\$ 45.00/ GB£ 35.00, Oxford, UK: Oxford University Press, 2001. <i>Environmental Conservation</i> , 2002, 29, 108-114.	0.7	0
98	Introduction to A.M.A. AubrÃ©villeâ€™s Article. <i>Fire Ecology</i> , 2013, 9, 1-2.	1.1	0