Driving forces of global wildfires over the past millennium and the forthcoming century

#	Paper	IF	Citations
524	Fuelling the fire. **2010**,		
523	Modeling fire and the terrestrial carbon balance. **2011**, 25, n/a-n/a		132
522	Aerosol Impacts on Climate and Biogeochemistry. **2011**, 36, 45-74		157
521	The FIRE PARADOX project: Towards science-based fire management in Europe. **2011**, 261, 2177-2178		14
520	The human dimension of fire regimes on Earth. **2011**, 38, 2223-2236		600
519	Human Pyrogeography: A New Synergy of Fire, Climate and People is Reshaping Ecosystems across the Globe. **2011**, 5, 329-350		19
518	Continued warming could transform Greater Yellowstone fire regimes by mid-21st century. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 13165-70	11.5	454
517	Depopulation of rural landscapes exacerbates fire activity in the western Amazon. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21546-50	11.5	31
516	Ecosystem greenspots: identifying potential drought, fire, and climate-change micro-refuges. **2012**, 22, 1852-64		72
515	The changing radiative forcing of fires: global model estimates for past, present and future. **2012**, 12, 10857-10886		153
514	The isotopic record of Northern Hemisphere atmospheric carbon monoxide since 1950: implications for the CO budget. **2012**, 12, 4365-4377		35
513	Distributions and climate effects of atmospheric aerosols from the preindustrial era to 2100 along Representative Concentration Pathways (RCPs) simulated using the global aerosol model SPRINTARS. **2012**, 12, 11555-11572		42
512	Fire and soils: Key concepts and recent advances. **2012**, 191, 3-13		122
511	Cropland Soil Carbon Dynamics. **2012**, 303-346		1
510	Natural and anthropogenic variations in methane sources during the past two millennia. **2012**, 490, 85-8		96
509	Effects of bark beetle-caused tree mortality on wildfire. **2012**, 271, 81-90		222
508	Regulation of seed germination and seedling growth by chemical signals from burning vegetation. **2012**, 63, 107-30		178

489	Assessing possible shifts in wildfire regimes under a changing climate in mountainous landscapes. **2013**, 310, 875-886		14
488	Gaseous Exchange Between Forests and the Atmosphere. **2013**, 19-36		9
487	Constraints on the late holocene anthropogenic contribution to the atmospheric methane budget. **2013**, 342, 964-6		64
486	Robust projections of Fire Weather Index in the Mediterranean using statistical downscaling. **2013**, 120, 229-247		42
485	On the projection of future fire danger conditions with various instantaneous/mean-daily data sources. **2013**, 118, 827-840		21
484	Holocene changes in fire frequency in the Daihai Lake region (north-central China): indications and implications for an important role of human activity. **2013**, 59, 18-29		50
483	Future U.S. wildfire potential trends projected using a dynamically downscaled climate change scenario. **2013**, 294, 120-135		130
482	Fire in managed forests of eastern Canada: Risks and options. **2013**, 294, 238-249		69
481	El Niò and health risks from landscape fire emissions in Southeast Asia. **2013**, 3, 131-136		204
480	Mega-fires, tipping points and ecosystem services: Managing forests and woodlands in an uncertain future. **2013**, 294, 250-261		173
479	Bounding the role of black carbon in the climate system: A scientific assessment. **2013**, 118, 5380-5552		3330
478	Rethinking infiltration in wildfire-affected soils. **2013**, 27, 1510-1514		45
477	Fire-smart management of forest landscapes in the Mediterranean basin under global change. **2013**, 110, 175-182		131
476	Climate change-induced shifts in fire for Mediterranean ecosystems. **2013**, 22, 1118-1129		112
475	Climatic control of the biomass-burning decline in the Americas after ad 1500. **2013**, 23, 3-13		73
474	Climate Change and North American Rangelands: Trends, Projections, and Implications. **2013**, 66, 493-511		166
473	Co-benefits of Global Greenhouse Gas Mitigation for Future Air Quality and Human Health. **2013**, 3, 885-889		374
472	Orbital-scale climate forcing of grassland burning in southern Africa. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5069-73	11.5	92

453	Canadian Forest Fires and the Effects of Long-Range Transboundary Air Pollution on Hospitalizations among the Elderly. **2014**, 3, 713-731	27
452	Biomass burning response to high-amplitude climate and vegetation changes in Southwestern France from the Last Glacial to the early Holocene. **2014**, 23, 729-742	12
451	Inventories and scenarios of nitrous oxide emissions. **2014**, 9, 105012	178
450	Local sources of global climate forcing from different categories of land use activities. **2014**,	
449	Biogeochemical impacts of wildfires over four millennia in a Rocky Mountain subalpine watershed. **2014**, 203, 900-12	63
448	Wild forest fire regime following land abandonment in the Mediterranean region. **2014**, 41, 8359-8368	21
447	Why Pine Barrens Restoration Should Favor Barrens Over Pine. **2014**, 22, 442-446	11
446	Fire responses to postglacial climate change and human impact in northern Patagonia (41-43°S). *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E5545-54	11.5	36
445	Fire regime changes and major driving forces in Spain from 1968 to 2010. **2014**, 37, 11-22	88
444	Contribution of forest fire ash and plant litter decay on stream dissolved composition in a sub-humid tropical watershed (Mule Hole, Southern India). **2014**, 372, 144-161	11
443	Forest fire danger projections in the Mediterranean using ENSEMBLES regional climate change scenarios. **2014**, 122, 185-199	94
442	Analyzing spatiotemporal changes in wildfire regime and exposure across a Mediterranean fire-prone area. **2014**, 71, 1389-1418	56
441	Land use history (1840⊠2005) and physiography as determinants of southern boreal forests. **2014**, 29, 437-450	33
440	Plant-derived smoke stimulates germination of four herbaceous species common in temperate regions of Europe. **2014**, 215, 411-415	8
439	Maximizing postmortem oral-facial data to assist identification following severe incineration. **2014**, 10, 208-16	11
438	Spatial and temporal patterns of global burned area in response to anthropogenic and environmental factors: Reconstructing global fire history for the 20th and early 21st centuries. **2014**, 119, 249-263	39
437	Divergent responses of fire to recent warming and drying across south-eastern Australia. **2014**, 20, 1412-28	65
436	Exploring the spatial patterns of fire density in Southern Europe using Geographically Weighted Regression. **2014**, 51, 143-157	86

417 Strong chemistry-climate feedbacks in the Pliocene. **2014**, 41, 527-533 | 33

416 Plant-Derived Smoke Enhances Germination of the Invasive Common Milkweed (Asclepias syriacaL.). **2015**, 63, 280-285 | 6

415 How a new fire-suppression policy can abruptly reshape the fire-weather relationship. **2015**, 6, art199 | 44

414 Century-scale patterns and trends of global pyrogenic carbon emissions and fire influences on terrestrial carbon balance. **2015**, 29, 1549-1566 | 17

413 Improved western U.S. background ozone estimates via constraining nonlocal and local source contributions using Aura TES and OMI observations. **2015**, 120, 3572-3592 | 12

412 Sensitivity of burned area in Europe to climate change, atmospheric CO2 levels, and demography: A comparison of two fire-vegetation models. **2015**, 120, 2256-2272 | 26

411 Regional paleofire regimes affected by non-uniform climate, vegetation and human drivers. **2015**, 5, 13356 | 37

410 Seasonal predictability of summer fires in a Mediterranean environment. **2015**, 24, 1076 | 28

409 Short- and long-term efficacy of forest thinning to mitigate drought impacts in mountain forests in the European Alps. **2015**, 25, 1083-98 | 51

408 Incorporating climate change projections into riparian restoration planning and design. **2015**, 8, 863-879 | 38

407 Controls on fire activity over the Holocene. **2015**, 11, 781-788 | 11

406 Source Material and Concentration of Wildfire-Produced Pyrogenic Carbon Influence Post-Fire Soil Nutrient Dynamics. **2015**, 6, 1325-1342 | 18

405 The Changing Strength and Nature of Fire-Climate Relationships in the Northern Rocky Mountains, U.S.A., 1902-2008. **2015**, 10, e0127563 | 70

404 Macro-particle charcoal C content following prescribed burning in a mixed-conifer forest, Sierra Nevada, California. **2015**, 10, e0135014 | 12

403 Correlations between components of the water balance and burned area reveal new insights for predicting forest fire area in the southwest United States. **2015**, 24, 14 | 79

402 Local sources of global climate forcing from different categories of land use activities. **2015**, 6, 175-194 | 11

401 Is the positive response of seed germination to plant-derived smoke associated with plant traits?. **2015**, 65-66, 24-31 | 11

400 Negative consequences of positive feedbacks in US wildfire management. **2015**, 2, | 134

| 381 | Effects of high-severity fire drove the population collapse of the subalpine Tasmanian endemic conifer Athrotaxis cupressoides. **2015**, 21, 445-58 | 48 |

| 380 | Non-deforestation fire vs. fossil fuel combustion: the source of CO_2 emissions affects the global carbon cycle and climate responses. **2016**, 13, 2137-2149 | 27 |

| 379 | Reconstructions of biomass burning from sediment-charcoal records to improve data-model comparisons. **2016**, 13, 3225-3244 | 112 |

| 378 | Fire Regime Characteristics along Environmental Gradients in Spain. **2016**, 7, 262 | 5 |

| 377 | Variability of fire emissions on interannual to multi-decadal timescales in two Earth System models. **2016**, 11, 125008 | 7 |

| 376 | The status and challenge of global fire modelling. **2016**, 13, 3359-3375 | 193 |

| 375 | Thermal alteration of soil physico-chemical properties: a systematic study to infer response of Sierra Nevada climosequence soils to forest fires. **2016**, 2, 351-366 | 22 |

| 374 | Climate, CO_2 and human population impacts on global wildfire emissions. **2016**, 13, 267-282 | 73 |

| 373 | Climate change and ecosystem services. **2016**, 7, 537-550 | 28 |

| 372 | Sediment-phosphorus dynamics can shift aquatic ecology and cause downstream legacy effects after wildfire in large river systems. **2016**, 22, 1168-84 | 50 |

| 371 | The long-term impact of low-intensity surface fires on litter decomposition and enzyme activities in boreal coniferous forests. **2016**, 25, 213 | 25 |

| 370 | Bird functional diversity decreases with time since disturbance: Does patchy prescribed fire enhance ecosystem function?. **2016**, 26, 115-27 | 31 |

| 369 | Global combustion: the connection between fossil fuel and biomass burning emissions (1997-2010). **2016**, 371, | 10 |

| 368 | Current and Future Fire Regimes and Their Influence on Natural Vegetation in Ethiopia. **2016**, 19, 369-386 | 17 |

| 367 | Tamm Review: Management of mixed-severity fire regime forests in Oregon, Washington, and Northern California. **2016**, 366, 221-250 | 119 |

| 366 | The effects of climatic fluctuations and extreme events on running water ecosystems. **2016**, 371, | 97 |

| 365 | Sleep quantity and quality is not compromised during planned burn shifts of less than 12 h. **2016**, 33, 657-66 | 19 |

| 364 | Demographic controls of future global fire risk. **2016**, 6, 781-785 | 77 |

345	The relative impacts of vegetation, topography and spatial arrangement on building loss to wildfires in case studies of California and Colorado. **2016**, 31, 415-430	25
344	Fire legacies impact conifer regeneration across environmental gradients in the U.S. northern Rockies. **2016**, 31, 619-636	93
343	Satellite versus ground-based estimates of burned area: A comparison between MODIS based burned area and fire agency reports over North America in 2007. **2016**, 3, 76-92	20
342	Identifying drought-induced correlations in the satellite time series of hot pixels recorded in the Brazilian Amazon by means of the detrended fluctuation analysis. **2016**, 444, 660-666	3
341	What are the most fire-dangerous atmospheric circulations in the Eastern-Mediterranean? Analysis of the synoptic wildfire climatology. **2016**, 539, 536-545	21
340	Ice-core records of biomass burning. **2016**, 3, 140-162	24
339	Review of Pathways for Building Fire Spread in the Wildland Urban Interface Part I: Exposure Conditions. **2017**, 53, 429-473	65
338	Historical and future fire occurrence (1850 to 2100) simulated in CMIP5 Earth System Models. **2017**, 150, 58-69	38
337	Effects of fire radiative energy density dose on Pinus contorta and Larix occidentalis seedling physiology and mortality. **2017**, 26, 82	30
336	Temperature and burning history affect emissions of greenhouse gases and aerosol particles from tropical peatland fire. **2017**, 122, 1281-1292	10
335	Designing ecological climate change impact assessments to reflect key climatic drivers. **2017**, 23, 2537-2553	23
334	Review on fire effects on ectomycorrhizal symbiosis, an unachieved work for a scalding topic. **2017**, 391, 446-457	35
333	Broadband optical properties of biomass-burning aerosol and identification of brown carbon chromophores. **2017**, 122, 5441-5456	68
332	Grand Challenges in Understanding the Interplay of Climate and Land Changes. **2017**, 21, 1-43	17
331	Reconstructing a cultural fire regime in the Pennsylvania Anthracite Region. **2017**, 38, 404-422	6
330	More functions of torpor and their roles in a changing world. **2017**, 187, 889-897	54
329	Ecosystem Responses to Fire: Identifying Cross-taxa Contrasts and Complementarities to Inform Management Strategies. **2017**, 20, 872-884	12
328	Air quality policy and fire management responses addressing smoke from wildland fires in the United States and Australia. **2017**, 26, 347	11

| 309 | New development and application needs for Earth system modeling of fire climate ecosystem interactions. **2017**, 13, 011001 | 5 |

| 308 | It takes a few to tango: changing climate and fire regimes can cause regeneration failure of two subalpine conifers. **2018**, 99, 966-977 | 55 |

| 307 | The linkages with fires, vegetation composition and human activity in response to climate changes in the Chinese Loess Plateau during the Holocene. **2018**, 488, 18-29 | 8 |

| 306 | Will Fire Danger Be Reduced by Using Solar Radiation Management to Limit Global Warming to 1.5°C Compared to 2.0°C?. **2018**, 45, 3644-3652 | 11 |

| 305 | Recent Increases in Wildfires in the Himalayas and Surrounding Regions Detected in Central Tibetan Ice Core Records. **2018**, 123, 3285-3291 | 15 |

| 304 | Human impacts on 20th century fire dynamics and implications for global carbon and water trajectories. **2018**, 162, 18-27 | 16 |

| 303 | Public health co-benefits of greenhouse gas emissions reduction: A systematic review. **2018**, 627, 388-402 | 56 |

| 302 | Trends and Variability of Global Fire Emissions Due To Historical Anthropogenic Activities. **2018**, 32, 122-142 | 25 |

| 301 | Existential risk due to ecosystem collapse: Nature strikes back. **2018**, 102, 39-50 | 27 |

| 300 | Long-term fire activity under the East Asian monsoon responding to spring insolation, vegetation type, global climate, and human impact inferred from charcoal records in Lake Biwa sediments in central Japan. **2018**, 179, 59-68 | 14 |

| 299 | Direct and component-wise bias correction of multi-variate climate indices: the percentile adjustment function diagnostic tool. **2018**, 147, 411-425 | 24 |

| 298 | Global Modern Charcoal Dataset (GMCD): A tool for exploring proxy-fire linkages and spatial patterns of biomass burning. **2018**, 488, 3-17 | 29 |

| 297 | Analog-based fire regime and vegetation shifts in mountainous regions of the western US. **2018**, 41, 910-921 | 27 |

| 296 | Investigating patterns of wildfire in Ireland and their correlation with regional and global trends in fire history. **2018**, 488, 58-66 | 4 |

| 295 | Physiological and behavioral responses of an arboreal mammal to smoke and charcoal-ash substrate. **2018**, 184, 116-121 | 7 |

| 294 | Estimating climate change effects on grazing management and beef cattle production in the Pacific Northwest. **2018**, 146, 5-17 | 5 |

| 293 | Wildfire Impact and the Fire Paradox in a Natural and Endemic Pine Forest Stand and Shrubland. **2018**, 1, 44 | 4 |

| 292 | Decision Tree Learning Approach To Wildfire Modeling on Peat and Non-Peat Land in Riau Province. **2018**, | |

273	Fire rather than nitrogen addition affects understory plant communities in the short term in a coniferous-broadleaf mixed forest. **2018**, 8, 8135-8148		6
272	Skilful forecasting of global fire activity using seasonal climate predictions. **2018**, 9, 2718		31
271	US particulate matter air quality improves except in wildfire-prone areas. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7901-7906	11.5	142
270	Estimating fire danger over Italy in the next decades. **2018**, 3, 1		6
269	Black carbon radiative effects highly sensitive to emitted particle size when resolving mixing-state diversity. **2018**, 9, 3446		59
268	Reassessment of pre-industrial fire emissions strongly affects anthropogenic aerosol forcing. **2018**, 9, 3182		47
267	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. **2018**, 18, 11471-11491		55
266	Atmospheric sulfur isotopic anomalies recorded at Mt. Everest across the Anthropocene. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6964-6969	11.5	17
265	Assessment of multiple climate change effects on plantation forests in New Zealand. **2019**, 92, 1-15		7
264	Global fire emissions buffered by the production of pyrogenic carbon. **2019**, 12, 742-747		81
263	Contrasting human influences and macro-environmental factors on fire activity inside and outside protected areas of North America. **2019**, 14, 064007		14
262	Potential Effects of Climate Change on Fire Behavior, Economic Susceptibility and Suppression Costs in Mediterranean Ecosystems: Córdoba Province, Spain. **2019**, 10, 679		6
261	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. **2019**, 10, 379-452		31
260	Developing an Aircraft-Based Angular Distribution Model of Solar Reflection from Wildfire Smoke to Aid Satellite-Based Radiative Flux Estimation. **2019**, 11, 1509		1
259	Wildfire impacts on water quality, macroinvertebrate, and trout populations in the Upper Rio Grande. **2019**, 453, 117636		9
258	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. **2019**, 59, 14.1-14.101		34
257	Vanadium in the massive coral Porites: A potential proxy for historical wood clearing and burning. **2019**, 527, 115793		3
256	Historical (1700Ɵ2012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). **2019**, 19, 12545-12567		29

255   A dataset on human perception of and response to wildfire smoke. **2019**, 6, 229   3

254   Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. **2019**, 124, 1846-1861   22

253   Working at the Speed of trust pre-existing and emerging social ties in wildfire responder networks in Sweden and Canada. **2019**, 19, 2353-2364   15

252   Human-induced fire regime shifts during 19th century industrialization: A robust fire regime reconstruction using northern Polish lake sediments. **2019**, 14, e0222011   13

251   Drivers of deforestation in the basin of the Usumacinta River: Inference on process from pattern analysis using generalised additive models. **2019**, 14, e0222908   6

250   Linking fire and the United Nations Sustainable Development Goals. **2019**, 662, 547-558   18

249   Contribution of Wildland-Fire Smoke to US PM and Its Influence on Recent Trends. **2019**, 53, 1797-1804   70

248   Interactive impacts of fire and vegetation dynamics on global carbon and water budget using Community Land Model version 4.5. **2019**, 12, 457-472   7

247   The role of flagship species in the economic valuation of wildfire impacts: An application to two Mediterranean protected areas. **2019**, 675, 520-530   3

246   From stand to landscape: modelling post-fire regeneration and species growth. **2019**, 404, 103-111   4

245   Comparing Modeled Emissions from Wildfire and Prescribed Burning of Post-Thinning Fuel: A Case Study of the 2016 Pioneer Fire. **2019**, 2, 22

244   Spatiotemporal prediction of wildfire size extremes with Bayesian finite sample maxima. **2019**, 29, e01898   19

243   Estimation of Metal Emissions From Tropical Peatland Burning in Indonesia by Controlled Laboratory Experiments. **2019**, 124, 6583-6599   3

242   Future changes in fire weather, spring droughts, and false springs across U.S. National Forests and Grasslands. **2019**, 29, e01904   7

241   Post-wildfire sediment cascades: A modeling framework linking debris flow generation and network-scale sediment routing. **2019**, 44, 2126-2140   25

240   Effects of fire and nitrogen addition on photosynthesis and growth of three dominant understory plant species in a temperate forest. **2019**, 12, 759-768   5

239   Effect of heterogeneous oxidative aging on light absorption by biomass burning organic aerosol. **2019**, 53, 663-674   33

238   Farmland abandonment decreases the fire regulation capacity and the fire protection ecosystem service in mountain landscapes. **2019**, 36, 100908   31

237   Development of a REgion-Specific Ecosystem Feedback Fire (RESFire) Model in the Community Earth System Model. **2019**, 11, 417-445   14

236   Land-Cover Dependent Relationships between Fire and Soil Moisture. **2019**, 2, 55   5

235   Effects of wildfire on soil respiration and its heterotrophic and autotrophic components in a montane coniferous forest. **2019**, 12, 336-345   5

234   Near-future forest vulnerability to drought and fire varies across the western United States. **2019**, 25, 290-303   42

233   The role of short-term weather conditions in temporal dynamics of fire regime features in mainland Spain. **2019**, 241, 575-586   11

232   Determining the use of Sentinel-2A MSI for wildfire burning & severity detection. **2019**, 40, 905-930   31

231   Terrestrial sources as the primary delivery mechanism of mercury to the oceans across the Toarcian Oceanic Anoxic Event (Early Jurassic). **2019**, 507, 62-72   81

230   Global Emergence of Anthropogenic Climate Change in Fire Weather Indices. **2019**, 46, 326-336   135

229   Holocene fire in relation to environmental change and human activity reconstructed from sedimentary charcoal of Chaohu Lake, East China. **2019**, 507, 62-73   5

228   Fire risk assessment along the climate, vegetation type variability over the part of Asian region: a geospatial approach. **2019**, 5, 41-57   2

227   Effect of soil water-repellent layer depth on post-wildfire hydrological processes. **2020**, 34, 270-283   16

226   Long-term effects of forest fires on soil greenhouse gas emissions and extracellular enzyme activities in a hemiboreal forest. **2020**, 718, 135291   8

225   Disentangling fire intensity and species susceptibility to fire in a species-rich seasonal tropical forest. **2020**, 108, 1664-1676   4

224   Investigation of wildfire impacts on land surface phenology from MODIS time series in the western US forests. **2020**, 159, 281-295   19

223   Fire regime dynamics in mainland Spain. Part 2: A near-future prospective of fire activity. **2020**, 705, 135842   7

222   Wildfire effects on BVOC emissions from boreal forest floor on permafrost soil in Siberia. **2020**, 711, 134851   12

221   Fire regime dynamics in mainland Spain. Part 1: Drivers of change. **2020**, 721, 135841   14

220   Assessing the Shape Accuracy of Coarse Resolution Burned Area Identifications. **2020**, 58, 1516-1526   5

219	Carbon sequestration and biodiversity co-benefits of preserving forests in the western United States. **2020**, 30, e02039	29
218	Remote sensing of night lights: A review and an outlook for the future. **2020**, 237, 111443	185
217	Effects of fire frequency on savanna butterfly diversity and composition: A preliminary study. **2020**, 62,	1
216	Observational evidence of wildfire-promoting soil moisture anomalies. **2020**, 10, 11008	19
215	Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales. **2020**, 8, e2020EF001616	25
214	Influence of the Method of Water Supply to the Zone of a Forest Fire on the Efficiency of its Extinguishing. **2020**, 93, 1460-1469	1
213	Rapid recovery of net ecosystem production in a semi-arid woodland after a wildfire. **2020**, 291, 108099	9
212	Wildfire and the ecological niche: Diminishing habitat suitability for an indicator species within semi-arid ecosystems. **2020**, 26, 6296-6312	15
211	A Holocene Perspective of Vegetation Controls on Seasonal Boreal Wildfire Sizes Using Numerical Paleo-Ecology. **2020**, 3,	2
210	Forecasting Global Fire Emissions on Subseasonal to Seasonal (S2S) Time Scales. **2020**, 12, e2019MS001955	4
209	Recent (1980 to 2015) Trends and Variability in Daily-to-Interannual Soluble Iron Deposition from Dust, Fire, and Anthropogenic Sources. **2020**, 47, e2020GL089688	10
208	Vegetation fires in the Anthropocene. **2020**, 1, 500-515	135
207	Exploring prevention and mitigation strategies to reduce the health impacts of occupational exposure to wildfires for wildland firefighters and related personnel: protocol of a scoping study. **2020**, 9, 119	4
206	Post-wildfire denudation assessed from compositional features of river sediments (Central Portugal). **2020**, 193, 105675	6
205	Holocene Grassland Fire Dynamics and Forcing Factors in Continental Interior of China. **2020**, 47, e2020GL088049	4
204	Fires prime terrestrial organic carbon for riverine export to the global oceans. **2020**, 11, 2791	28
203	Forests and Decarbonization Roles of Natural and Planted Forests. **2020**, 3,	14
202	Biomass-burning-induced surface darkening and its impact on regional meteorology in eastern China. **2020**, 20, 6177-6191	3

201	Wildfire evolution and response to climate change in the Yinchuan Basin during the past 1.5 Ma based on the charcoal records of the PL02 core. **2020**, 241, 106393	2
200	Consideration of anthropogenic factors in boreal forest fire regime changes during rapid socio-economic development: case study of forestry districts with increasing burnt area in the Sakha Republic, Russia. **2020**, 15, 035009	11
199	Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene. **2020**, 34, e2019GB006448	33
198	Climate Extremes and Compound Hazards in a Warming World. **2020**, 48, 519-548	103
197	Wildland fire risk research in Canada. **2020**, 28, 164-186	24
196	Reconstruction of Paleofire Emissions Over the Past Millennium From Measurements of Ice Core Acetylene. **2020**, 47, e2019GL085101	5
195	Late Pleistocene fire in the Ili Basin, Central Asia, and its potential links to paleoclimate change and human activities. **2020**, 547, 109700	11
194	Fire decline in dry tropical ecosystems enhances decadal land carbon sink. **2020**, 11, 1900	15
193	Climatology and trend analysis (1987–2016) of fire weather in the Euro-Mediterranean. **2021**, 41, E491	5
192	Wildfire dynamics and impacts on a tropical Andean oak forest. **2021**, 30, 112	1
191	Disentangling the effects of multiple fires on spatially interspersed sagebrush (Artemisia spp.) communities. **2021**, 32,	2
190	Spatial analysis of wildfire incidence in the USA: the role of climatic spillovers. **2021**, 23, 6084-6105	4
189	Geochemical Behavior of Levoglucosan in Tibetan Plateau Glacier Snow and Ice. **2021**,	
188	Multiscale assessment of the impact on air quality of an intense wildfire season in southern Italy. **2021**, 761, 143271	6
187	Lewis's woodpecker nesting habitat suitability: Predictive models for application within burned forests. **2021**, 253, 108811	
186	Structure–Energy–Photochemical Activity Relationships in Fluorophoric Water-Extracted Organic Matter from (Un)charred Plant Materials. **2021**, 1, 859-870	0
185	Intraspecific trait variability shapes leaf trait response to altered fire regimes. **2021**, 127, 543-552	2
184	Past Variance and Future Projections of the Environmental Conditions Driving Western U.S. Summertime Wildfire Burn Area. **2020**, 9, e2020EF001645	12

183	High resilience of the mycorrhizal community to prescribed seasonal burnings in eastern Mediterranean woodlands. **2021**, 31, 203-216	1
182	The Use of Unmanned Aerial Vehicles (UAVs) for Estimating Soil Volumes Retained by Check Dams after Wildfires in Mediterranean Forests. **2021**, 5, 9	0
181	Will land use land cover change drive atmospheric conditions to become more conducive to wildfires in the United States?. **2021**, 41, 3578-3597	1
180	Global review on interactions between insect pests and other forest disturbances. **2021**, 36, 945-972	15
179	Previous Atlantic Multidecadal Oscillation (AMO) modulates the lightning-ignited fire regime in the boreal forest of Northeast China. **2021**, 16, 024054	2
178	Quantifying ecological variation across jurisdictional boundaries in a management mosaic landscape. **2021**, 36, 1215-1233	2
177	A New Automatic Statistical Microcharcoal Analysis Method Based on Image Processing, Demonstrated in the Weiyuan Section, Northwest China. **2021**, 9,	0
176	Climate, Fuel, and Land Use Shaped the Spatial Pattern of Wildfire in California Sierra Nevada. **2021**, 126, e2020JG005786	6
175	How fire interacts with habitat loss and fragmentation. **2021**, 96, 976-998	12
174	Improving prediction and assessment of global fires using multilayer neural networks. **2021**, 11, 3295	3
173	Satellite Observations of the Tropical Terrestrial Carbon Balance and Interactions With the Water Cycle During the 21st Century. **2021**, 59, e2020RG000711	4
172	A global assessment of wildfire potential under climate change utilizing Keetch-Byram drought index and land cover classifications. **2021**, 3, 035002	6
171	Multifaceted characteristics of dryland aridity changes in a warming world. **2021**, 2, 232-250	57
170	Changes in fire weather climatology under 1.5 °C and 2.0 °C warming. **2021**, 16, 034058	1
169	Global search for temporal shifts in fire activity: potential human influence on southwest Russia and north Australia fire seasons. **2021**, 16, 044023	6
168	Knowledge Management for Sustainable Development in the Era of Continuously Accelerating Technological Revolutions: A Framework and Models. **2021**, 13, 3353	4
167	Tree physiological responses after biotic and abiotic disturbances revealed by a dual isotope approach. **2021**,	2
166	Historical and future global burned area with changing climate and human demography. **2021**, 4, 517-530	16

| 165 | Large-scale wildfire reduces population growth in a peripheral population of sage-grouse. **2021**, 17, | 7 |

| 164 | Open fire exposure increases the risk of pregnancy loss in South Asia. **2021**, 12, 3205 | 6 |

| 163 | Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. **2021**, 7, | 4 |

| 162 | Spatiotemporal variability of fire effects on soil carbon and nitrogen: A global meta-analysis. **2021**, 27, 4196-4206 | 4 |

| 161 | Short-term impacts of 2017 western North American wildfires on meteorology, the atmospheres energy budget, and premature mortality. **2021**, 16, 064065 | 1 |

| 160 | Investigation of association between smoke haze and under-five mortality in Malaysia, accounting for time lag, duration and intensity. **2021**, | 0 |

| 159 | Managing fires in a changing world: Fuel and weather determine fire behavior and safety in the neotropical savannas. **2021**, 289, 112508 | 7 |

| 158 | Transforming fire management in northern Australia through successful implementation of savanna burning emissions reductions projects. **2021**, 290, 112568 | 7 |

| 157 | Climate change and wildfire-induced alteration of fight-or-flight behavior. **2021**, 1, 100012 | 2 |

| 156 | Changing atmospheric acidity as a modulator of nutrient deposition and ocean biogeochemistry. **2021**, 7, | 11 |

| 155 | Assessing the Risk of Respiratory-Related Healthcare Visits Associated with Wildfire Smoke Exposure in Children 0-18 Years Old: A Systematic Review. **2021**, 18, | 3 |

| 154 | The impact of wildfire smoke on ozone production in an urban area: insights from field observations and photochemical box modeling. **2021**, 267, 118764 | 0 |

| 153 | Spatio-temporal patterns of wildfires in Siberia during 2001∏2020. 1-19 | 3 |

| 152 | Post-fire dynamics of ectomycorrhizal fungal communities in a Scots pine (L.) forest of Poland. **2021**, 9, e12076 | 0 |

| 151 | Fire Dynamics in Boreal Forests Over the 20th Century: A Data-Model Comparison. **2021**, 9, | 1 |

| 150 | A review of forest fire and policy response for resilient adaptation under changing climate in the Eastern Himalayan region. 1-9 | 3 |

| 149 | Modern relationships between microscopic charcoal in marine sediments and fire regimes on adjacent landmasses to refine the interpretation of marine paleofire records: An Iberian case study. **2021**, 270, 107148 | 2 |

| 148 | Remarkable signals of the ancient Chinese civilization since the Early Bronze Age in the marine environment. **2022**, 804, 150209 | 0 |

147	Elevation in wildfire frequencies with respect to the climate change. **2022**, 301, 113769	4
146	A simple model indicates that there are sufficient water supply points for fighting forest fires in the Czech Republic. **2021**, 30, 428	2
145	Age-Dependent Changes in Soil Respiration and Associated Parameters in Siberian Permafrost Larch Stands Affected by Wildfire. **2021**, 12, 107	1
144	Connections of climate change and variability to large and extreme forest fires in southeast Australia. **2021**, 2,	84
143	Mobilizing the past to shape a better Anthropocene. **2021**, 5, 273-284	31
142	Fire-induced albedo change and surface radiative forcing in sub-Saharan Africa savanna ecosystems: Implications for the energy balance. **2017**, 122, 6186-6201	21
141	A 21 000-Year History of Fire. 207-227	4
140	Ecological Consequences of Climate Change on Rangelands. **2017**, 229-260	8
139	Climate Change and Early Warning Systems for Wildland Fire. **2014**, 127-151	4
138	Evaluating the factors responsible for post-fire water quality response in forests of the western USA. **2019**, 28, 769	15
137	Observed changes in fire patterns and possible drivers over Central Africa. **2020**, 15, 0940b8	8
136	Nonlinear dynamics of fires in Africa over recent decades controlled by precipitation. **2020**, 26, 4495-4505	10
135	Toward sustainable climate change adaptation. **2020**, 24, 318-330	11
134	Opposing Responses of Bird Functional Diversity to Vegetation Structural Diversity in Wet and Dry Forest. **2016**, 11, e0164917	12
133	Characteristics of climate and landscape disturbance influence the dynamics of greater sage-grouse populations. **2012**, 3, art55	65
132	Les rŠervoirs de carbone en forť borÀle ˆlЁst du Canada´: acquis et incertitudes dans la modŠlisation face aux changements climatiques. **2012**,	1
131	Trends and spatial shifts in lightning fires and smoke concentrations in response to 21st century climate over the national forests and parks of the western United States. **2020**, 20, 8827-8838	9
130	The isotopic record of Northern Hemisphere atmospheric carbon monoxide since 1950, implications for the CO budget.	2

129	The changing radiative forcing of fires: global model estimates for past, present and future.	6
128	Future challenges of representing land-processes in studies on land-atmosphere interactions. **2012**, 9, 3587-3599	45
127	Climate, CO<sub>2</sub>, and demographic impacts on global wildfire emissions.	4
126	The impacts of climate, land use, and demography on fires during the 21st century simulated by CLM-CN.	5
125	Quantifying the role of fire in the Earth system Part 1: Improved global fire modeling in the Community Earth System Model (CESM1).	1
124	Future challenges of representing land-processes in studies on land-atmosphere interactions.	2
123	Satellite-based assessment of climate controls on US burned area.	1
122	Fire in ice: two millennia of Northern Hemisphere fire history from the Greenland NEEM ice core.	3
121	INFERNO: a fire and emissions scheme for the UK Met Office's Unified Model. **2016**, 9, 2685-2700	25
120	Coupling earth system and integrated assessment models: the problem of steady state.	5
119	WHY ANIMAL WELFARE IS NOT BIODIVERSITY, ECOSYSTEM SERVICES, OR HUMAN WELFARE: TOWARD A MORE COMPLETE ASSESSMENT OF CLIMATE IMPACTS. **2018**, 13, 43	1
118	On the Use of GNSS Reflectometry for Detecting Fire Disturbances in Forests: A Case Study in Angola. **2021**,	
117	The climatology of extreme wildfires in Portugal, 19802018: Contributions to forecasting and preparedness.	3
116	Influences of climate fluctuations on northeastern North America burned areas largely outweigh those of European settlement since AD 1850. **2021**, 16, 114007	0
115	Evaluating the Persistence of Post-Wildfire Ash: A Multi-Platform Spatiotemporal Analysis. **2021**, 4, 68	0
114	Soil-water dynamics and unsaturated storage during snowmelt following wildfire.	
113	Distributions and climate effects of atmospheric aerosols from the preindustrial era to 2100 along Representative Concentration Pathways (RCPs) simulated using a global aerosol model SPRINTARS.	
112	What could have caused pre-industrial biomass burning emissions to exceed current rates?.	1

93	Effect of burning on the distribution pattern and isotopic composition of plant biomolecules: Implications for paleoecological studies. **2022**, 318, 305-327	0
92	Detecting fire disturbances in forests by using GNSS reflectometry and machine learning: A case study in Angola. **2022**, 270, 112878	0
91	Combining Participatory Mapping and Geospatial Analysis Techniques to Assess Wildfire Risk in Rural North Vietnam.. **2022**, 69, 466	0
90	Crowding, climate, and the case for social distancing among trees. **2021**, e2507	3
89	A Predictive Model of Leaf Flammability Using Leaf Traits and Radiant Heat Flux for Plants of Fire-Prone Dry Sclerophyll Forest. **2022**, 13, 152	
88	Health risks and mitigation strategies from occupational exposure to wildland fire: a scoping review.. **2022**, 17, 2	3
87	Weather explains differences in sagebrush-obligate songbird nest success under various grazing regimes. **2022**, 34, e02010	
86	Health research priorities for wildland firefighters: a modified Delphi study with stakeholder interviews.. **2022**, 12, e051227	0
85	Pyrogenic carbon decomposition critical to resolving fire₃ role in the Earth system. **2022**, 15, 135-142	3
84	The effect of changes in human drivers on the fire regimes of South African grassland and savanna environments over the past 100 years. **2022**, 39, 107-123	0
83	Correlation between laboratory- and real-scale fire analyses. **2022**, 333-379	
82	Sedimentary charcoal studies from southern Africa₃ grassy biomes: a potential resource for informing the management of fires and ecosystems. **2022**, 39, 27-43	0
81	Turbidity and fecal indicator bacteria in recreational marine waters increase following the 2018 Woolsey Fire.. **2022**, 12, 2428	0
80	Wildland urban interface of the City of Cape Town 1990₂019.	0
79	Projecting Future Fire Regimes in a Semiarid Watershed of the Inland Northwestern United States: Interactions Among Climate Change, Vegetation Productivity, and Fuel Dynamics. **2022**, 10,	1
78	Machine learning-based observation-constrained projections reveal elevated global socioeconomic risks from wildfire.. **2022**, 13, 1250	1
77	Early Oligocene₃ate Miocene Wildfire History in the Northern Tibetan Plateau and Links to Temperature-Driven Precipitation Changes. **2022**, 10,	
76	Global increase in wildfire potential from compound fire weather and drought. **2022**, 5,	2

75	Spatial and temporal expansion of global wildland fire activity in response to climate change.. **2022**, 13, 1208	6
74	Adaptation Strategies and Approaches for Managing Fire in a Changing Climate. **2022**, 10, 58	0
73	Increasing radiant heat flux affects leaf flammability patterns in plant species of eastern Australian fire-prone woodlands.. **2021**,	
72	Likelihood of unprecedented drought and fire weather during Australia's 2019 megafires. **2021**, 4,	3
71	The underappreciated role of anthropogenic sources in atmospheric soluble iron flux to the Southern Ocean. **2022**, 5,	2
70	Forecasting the regional fire radiative power for regularly ignited vegetation fires. **2022**, 22, 1335-1346	
69	New seasonal pattern of pollution emerges from changing North American wildfires.. **2022**, 13, 2043	2
68	ENSO modulates interactions between forest insect and fire disturbances in China. **2022**,	1
67	Global and regional trends and drivers of fire under climate change.	14
66	High-resolution mapping of wildfire drivers in California based on machine learning.. **2022**, 155155	0
65	Data_Sheet_1.DOCX. **2020**,	
64	Data_Sheet_10.DOCX. **2020**,	
63	Data_Sheet_11.DOCX. **2020**,	
62	Data_Sheet_12.DOCX. **2020**,	
61	Data_Sheet_13.DOCX. **2020**,	
60	Data_Sheet_2.DOCX. **2020**,	
59	Data_Sheet_3.DOCX. **2020**,	
58	Data_Sheet_4.DOCX. **2020**,	

57	Data_Sheet_5.DOCX. **2020**,	

56	Data_Sheet_6.DOCX. **2020**,	

55	Data_Sheet_7.DOCX. **2020**,	

54	Data_Sheet_8.DOCX. **2020**,	

53	Data_Sheet_9.DOCX. **2020**,	

52	Table_1.docx. **2020**,	

51	Characterizing Global Fire Regimes from Satellite-Derived Products. **2022**, 13, 699	0

50	Spatial and temporal variation of air pollutant emissions from forest fires in China. **2022**, 119156	1

49	Reduced global fire activity due to human demography slows global warming by enhanced land carbon uptake.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2101186119	11.5	0

48	The state of wildfire and bushfire science: Temporal trends, research divisions and knowledge gaps. **2022**, 153, 105797	0

47	Madagascar's fire regimes challenge global assumptions about landscape degradation.. **2022**,	1

46	Anthropogenic origin of a change in the fire-climate relationship in northern China after ~2000 yr BP: Evidence from a 15,500-year black carbon record from Dali Lake. **2022**, 32, 1136-1156	0

45	Geospatial characteristics of fire occurrences in southern hemispheric Africa and Madagascar during 2001–2020.	1

44	Evaluation of Historical Wildfires in Tohoku Region Using Satellite-Based High-Fire-Severity Index. **2022**, 17, 507-515	0

43	Changes in grassland phenology and growth rate, rather than diversity, drive biomass production after fire. **2022**, 322, 109028	

42	Prescribed burning in Pinus cubensis-dominated tropical natural forests: a myco-friendly fire-prevention tool. **2022**, 31, e012	

41	Climate-Driven Changes in High-Intensity Wildfire on Orbital Timescales in Eurasia since 320 ka. **2022**, 2022,	0

40	Spatiotemporal Modeling. **2022**, 1-5	

39	Outside in: the relationship between indoor and outdoor particulate air quality during wildfire smoke events in western US cities.	1
38	Fire Weather Conditions in Boreal and Polar Regions in 20022021. **2022**, 13, 1117	1
37	Social and historical dimensions of wildfire research and the consideration given to practical knowledge: a systematic review.	1
36	Long-term responses of ground beetles (Coleoptera: Carabidae) to clear-cutting and wildfire in lodgepole pine stands of western Alberta, Canada. **2022**, 154,	0
35	Assessing the State of Smoke Science. **2022**, 1-10	
34	ENSO Teleconnection to Interannual Variability in Carbon Monoxide Over the North Atlantic European Region in Spring. 10,	
33	Simulating wildfire emissions and plume rise using geostationary satellite fire radiative power measurements: a case study of the 2019 Williams Flats fire. **2022**, 22, 10195-10219	
32	A low-order dynamical model for fire-vegetation-climate interactions. **2022**, 17, 094004	
31	Long-term effects of forest fires on fungal community and soil properties along a hemiboreal Scots pine forest fire chronosequence. **2022**, 851, 158173	0
30	Where are the trees? Extent, configuration, and drivers of poor forest recovery 30´years after the 1988 Yellowstone fires. **2022**, 524, 120536	0
29	Fire-climate interactions in the Southwest.	0
28	Spatiotemporal Modeling. **2022**, 1-5	0
27	Aerosol in the Earth system. **2022**, 53-99	0
26	A scoping review on the health effects of smoke haze from vegetation and peatland fires in Southeast Asia: Issues with study approaches and interpretation. **2022**, 17, e0274433	0
25	Reviewing the links and feedbacks between climate change and air pollution in Europe. 10,	1
24	Investigation of the Parameters Influencing Baseline Ozone in the Western United States: A Statistical Modeling Approach. **2022**, 13, 1883	0
23	Biomass burning-agriculture coupling in the Orinoco savannasⵎParticulate matter emission scenarios. 10,	0
22	Cross-country risk quantification of extreme wildfires in Mediterranean Europe.	0

21	Spatiotemporal Characteristics and Regional Variations of Active Fires in China since 2001. **2023**, 15, 54	0
20	Influence of Wildfire on Urban Ozone: An Observationally Constrained Box Modeling Study at a Site in the Colorado Front Range.	0
19	Wildland Fires in the Subtropical Hill Forests of Southeastern Bangladesh. **2023**, 14, 97	1
18	Impacts of Wildfire Smoke and Air Pollution on a Pediatric Population with Asthma: A Population-Based Study. **2023**, 20, 1937	1
17	A Comparative Study on the Coevolution and Drivers of Environmental Risks and Man□Land Relationship between China and the United States from the Perspective of LUCC. **2023**, 14, 288	0
16	Forest Fire Prediction Based on Long- and Short-Term Time-Series Network. **2023**, 14, 778	0
15	Artificial neural networks for assessing forest fire susceptibility in Tükiye. **2023**, 75, 102034	0
14	Fire-induced geochemical changes in soil: Implication for the element cycling. **2023**, 868, 161714	0
13	Wildfire particulate matter as a source of environmentally persistent free radicals and reactive oxygen species. **2023**, 3, 581-594	0
12	Changes in the Seasonality of Fire Activity and Fire Weather in Portugal: Is the Wildfire Season Really Longer?. **2023**, 2, 74-86	0
11	AttentionFire_v1.0: interpretable machine learning fire model for burned-area predictions over tropics. **2023**, 16, 869-884	1
10	Assessing changes in global fire regimes.	0
9	The Characteristics of Gas and Particulate Emissions from Smouldering Combustion in the Pinus pumila Forest of Huzhong National Nature Reserve of the Daxing□n Mountains. **2023**, 14, 364	0
8	Projections of wildfire risk and activities under 1.5 ℃ and 2.0 ℃ global warming scenarios. **2023**, 5, 031002	0
7	Country-Level Modeling of Forest Fires in Austria and the Czech Republic: Insights from Open-Source Data. **2023**, 15, 5269	0
6	Assessment of Post-Fire Phenological Changes Using MODIS-Derived Vegetative Indices in the Semiarid Oak Forests. **2023**, 14, 590	0
5	Forest fire susceptibility mapping with sensitivity and uncertainty analysis using machine learning and deep learning algorithms. **2023**,	0
4	A Review of Speleothems as Archives for Paleofire Proxies, With Australian Case Studies. **2023**, 61,	1

3	Microscopic charcoals in ocean sediments off Africa track past fire intensity from the continent. **2023**, 4,	0
2	Rapid changes in functional trait expression and decomposition following high severity fire and experimental warming. **2023**, 541, 121019	0
1	Impact of solar geoengineering on wildfires in the 21st century in CESM2/WACCM6. **2023**, 23, 5467-5486	0