

Crystal A Kolden

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

5,902
citations

94269

37
h-index

76769

74
g-index

90
all docs

90
docs citations

90
times ranked

5302
citing authors

#	ARTICLE	IF	CITATIONS
1	Bushfires in Tasmania, Australia: An Introduction. <i>Fire</i> , 2022, 5, 33.	1.2	1
2	Projecting Future Fire Regimes in a Semi-arid Watershed of the Inland Northwestern United States: Interactions Among Climate Change, Vegetation Productivity, and Fuel Dynamics. <i>Earth's Future</i> , 2022, 10, .	2.4	7
3	Fires that matter: reconceptualizing fire risk to include interactions between humans and the natural environment. <i>Environmental Research Letters</i> , 2022, 17, 045014.	2.2	14
4	Global and Regional Trends and Drivers of Fire Under Climate Change. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	182
5	Forest Carbon Emission Sources Are Not Equal: Putting Fire, Harvest, and Fossil Fuel Emissions in Context. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	9
6	The state of wildfire and bushfire science: Temporal trends, research divisions and knowledge gaps. <i>Safety Science</i> , 2022, 153, 105797.	2.6	12
7	Short- and long-term effects of fire on stem hydraulics in <i>Pinus ponderosa</i> saplings. <i>Plant, Cell and Environment</i> , 2021, 44, 696-705.	2.8	20
8	How climate change and fire exclusion drive wildfire regimes at actionable scales. <i>Environmental Research Letters</i> , 2021, 16, 024051.	2.2	38
9	Adapting western North American forests to climate change and wildfires: 10 common questions. <i>Ecological Applications</i> , 2021, 31, e02433.	1.8	133
10	How does water yield respond to mountain pine beetle infestation in a semi-arid forest?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4681-4699.	1.9	11
11	Determination of burn severity models ranging from regional to national scales for the conterminous United States. <i>Remote Sensing of Environment</i> , 2021, 263, 112569.	4.6	16
12	Increasing Synchronous Fire Danger in Forests of the Western United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091377.	1.5	53
13	Projected increases in western US forest fire despite growing fuel constraints. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	102
14	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. <i>Scientific Data</i> , 2020, 7, 194.	2.4	13
15	Vegetation fires in the Anthropocene. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 500-515.	12.2	419
16	Drought Increases Vulnerability of <i>Pinus ponderosa</i> Saplings to Fire-Induced Mortality. <i>Fire</i> , 2020, 3, 56.	1.2	13
17	Climate change is increasing the likelihood of extreme autumn wildfire conditions across California. <i>Environmental Research Letters</i> , 2020, 15, 094016.	2.2	322
18	Disturbance refugia within mosaics of forest fire, drought, and insect outbreaks. <i>Frontiers in Ecology and the Environment</i> , 2020, 18, 235-244.	1.9	91

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19	Wildfires: count lives and homes, not hectares burnt. <i>Nature</i> , 2020, 586, 9-9.	13.7	11
20	Population exposure to pre-emptive de-energization aimed at averting wildfires in Northern California. <i>Environmental Research Letters</i> , 2020, 15, 094046.	2.2	34
21	Large-diameter trees dominate snag and surface biomass following reintroduced fire. <i>Ecological Processes</i> , 2020, 9, .	1.6	20
22	Human environmental drivers and impacts of the globally extreme 2017 Chilean fires. <i>Ambio</i> , 2019, 48, 350-362.	2.8	114
23	Rethinking resilience to wildfire. <i>Nature Sustainability</i> , 2019, 2, 797-804.	11.5	174
24	Lidar provides novel insights into the effect of pixel size and grazing intensity on measures of spatial heterogeneity in a native bunchgrass ecosystem. <i>Remote Sensing of Environment</i> , 2019, 235, 111432.	4.6	21
25	Characterizing persistent unburned islands within the Inland Northwest USA. <i>Fire Ecology</i> , 2019, 15, .	1.1	8
26	The Survival of <i>Pinus ponderosa</i> Saplings Subjected to Increasing Levels of Fire Behavior and Impacts on Post-Fire Growth. <i>Fire</i> , 2019, 2, 23.	1.2	14
27	An Assessment of Fire Refugia Importance Criteria Ranked by Land Managers. <i>Fire</i> , 2019, 2, 27.	1.2	5
28	Fixing a snag in carbon emissions estimates from wildfires. <i>Global Change Biology</i> , 2019, 25, 3985-3994.	4.2	53
29	We're Not Doing Enough Prescribed Fire in the Western United States to Mitigate Wildfire Risk. <i>Fire</i> , 2019, 2, 30.	1.2	128
30	The missing fire: quantifying human exclusion of wildfire in Pacific Northwest forests, <sc>USA</sc>. <i>Ecosphere</i> , 2019, 10, e02702.	1.0	60
31	Planning for Idaho's waterscapes: A review of historical drivers and outlook for the next 50 years. <i>Environmental Science and Policy</i> , 2019, 94, 191-201.	2.4	15
32	A Socio-Ecological Approach to Mitigating Wildfire Vulnerability in the Wildland Urban Interface: A Case Study from the 2017 Thomas Fire. <i>Fire</i> , 2019, 2, 9.	1.2	38
33	The importance of small fire refugia in the central Sierra Nevada, California, USA. <i>Forest Ecology and Management</i> , 2019, 432, 1041-1052.	1.4	37
34	Spatiotemporal patterns of unburned areas within fire perimeters in the northwestern United States from 1984 to 2014. <i>Ecosphere</i> , 2018, 9, e02029.	1.0	36
35	Accounting for disturbance history in models: using remote sensing to constrain carbon and nitrogen pool spinup. <i>Ecological Applications</i> , 2018, 28, 1197-1214.	1.8	11
36	Biomimicry can help humans to coexist sustainably with fire. <i>Nature Ecology and Evolution</i> , 2018, 2, 1827-1829.	3.4	18

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37	The Development of Near Real-Time Biomass and Cover Estimates for Adaptive Rangeland Management Using Landsat 7 and Landsat 8 Surface Reflectance Products. <i>Remote Sensing</i> , 2018, 10, 1057.	1.8	29
38	Fire intensity impacts on post-fire temperate coniferous forest net primary productivity. <i>Biogeosciences</i> , 2018, 15, 1173-1183.	1.3	27
39	Global patterns of interannual climate-fire relationships. <i>Global Change Biology</i> , 2018, 24, 5164-5175.	4.2	191
40	Spatial Distribution of Wildfires Ignited under Katabatic versus Non-Katabatic Winds in Mediterranean Southern California USA. <i>Fire</i> , 2018, 1, 19.	1.2	41
41	An experimental assessment of the impact of drought and fire on western larch injury, mortality and recovery. <i>International Journal of Wildland Fire</i> , 2018, 27, 490.	1.0	9
42	Recognizing Women Leaders in Fire Science. <i>Fire</i> , 2018, 1, 30.	1.2	4
43	Evaluating the Mid-Infrared Bi-spectral Index for improved assessment of low-severity fire effects in a conifer forest. <i>International Journal of Wildland Fire</i> , 2018, 27, 407.	1.0	15
44	Human-related ignitions concurrent with high winds promote large wildfires across the USA. <i>International Journal of Wildland Fire</i> , 2018, 27, 377.	1.0	57
45	Effects of fire radiative energy density dose on <i>Pinus contorta</i> and <i>Larix occidentalis</i> seedling physiology and mortality. <i>International Journal of Wildland Fire</i> , 2017, 26, 82.	1.0	39
46	Impacts of fire radiative flux on mature <i>Pinus ponderosa</i> growth and vulnerability to secondary mortality agents. <i>International Journal of Wildland Fire</i> , 2017, 26, 95.	1.0	36
47	Landscape-scale quantification of fire-induced change in canopy cover following mountain pine beetle outbreak and timber harvest. <i>Forest Ecology and Management</i> , 2017, 391, 164-175.	1.4	27
48	Human exposure and sensitivity to globally extreme wildfire events. <i>Nature Ecology and Evolution</i> , 2017, 1, 58.	3.4	359
49	Multi-temporal LiDAR and Landsat quantification of fire-induced changes to forest structure. <i>Remote Sensing of Environment</i> , 2017, 191, 419-432.	4.6	82
50	Climatic influences on interannual variability in regional burn severity across western US forests. <i>International Journal of Wildland Fire</i> , 2017, 26, 269.	1.0	76
51	Hazards in Motion: Development of Mobile Geofences for Use in Logging Safety. <i>Sensors</i> , 2017, 17, 822.	2.1	32
52	Fire Effects on Historical Wildfire Refugia in Contemporary Wildfires. <i>Forests</i> , 2017, 8, 400.	0.9	36
53	Recent Tree Mortality in the Western United States from Bark Beetles and Forest Fires. <i>Forest Science</i> , 2016, 62, 141-153.	0.5	130
54	Spectral Indices Accurately Quantify Changes in Seedling Physiology Following Fire: Towards Mechanistic Assessments of Post-Fire Carbon Cycling. <i>Remote Sensing</i> , 2016, 8, 572.	1.8	33

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55	Towards a new paradigm in fire severity research using doseâ€“response experiments. <i>International Journal of Wildland Fire</i> , 2016, 25, 158.	1.0	70
56	Controls on interannual variability in lightning-caused fire activity in the western US. <i>Environmental Research Letters</i> , 2016, 11, 045005.	2.2	64
57	The Science of Firescapes: Achieving Fire-Resilient Communities. <i>BioScience</i> , 2016, 66, 130-146.	2.2	157
58	Detecting unburned areas within wildfire perimeters using Landsat and ancillary data across the northwestern United States. <i>Remote Sensing of Environment</i> , 2016, 186, 275-285.	4.6	97
59	Assessing Landscape Vulnerability to Wildfire in the USA. <i>Current Forestry Reports</i> , 2016, 2, 201-213.	3.4	18
60	Quantifying livestock effects on bunchgrass vegetation with Landsat ETM+ data across a single growing season. <i>International Journal of Remote Sensing</i> , 2016, 37, 150-175.	1.3	17
61	Limitations and utilisation of Monitoring Trends in Burn Severity products for assessing wildfire severity in the USA. <i>International Journal of Wildland Fire</i> , 2015, 24, 1023.	1.0	124
62	Climate change presents increased potential for very large fires in the contiguous United States. <i>International Journal of Wildland Fire</i> , 2015, 24, 892.	1.0	336
63	Climate Contributors to Forest Mosaics: Ecological Persistence Following Wildfire. <i>Northwest Science</i> , 2015, 89, 219-238.	0.1	38
64	Effects of wildfire on sea otter (<i>Enhydra lutris</i>) gene transcript profiles. <i>Marine Mammal Science</i> , 2015, 31, 191-210.	0.9	16
65	Multiâ€“scalar influence of weather and climate on very largeâ€“fires in the Eastern United States. <i>International Journal of Climatology</i> , 2015, 35, 2180-2186.	1.5	39
66	Developing Theoretical Marine Habitat Suitability Models from Remotely-Sensed Data and Traditional Ecological Knowledge. <i>Remote Sensing</i> , 2015, 7, 11863-11886.	1.8	8
67	Modeling the impacts of wildfire on runoff and pollutant transport from coastal watersheds to the nearshore environment. <i>Journal of Environmental Management</i> , 2015, 151, 113-123.	3.8	16
68	Vegetation, topography and daily weather influenced burn severity in central Idaho and western Montana forests. <i>Ecosphere</i> , 2015, 6, 1-23.	1.0	101
69	Is proportion burned severely related to daily area burned?. <i>Environmental Research Letters</i> , 2014, 9, 064011.	2.2	19
70	Remote sensing the vulnerability of vegetation in natural terrestrial ecosystems. <i>Remote Sensing of Environment</i> , 2014, 154, 322-337.	4.6	107
71	Development of a Historical Multi-Year Land Cover Classification Incorporating Wildfire Effects. <i>Land</i> , 2014, 3, 1214-1231.	1.2	3
72	Mapping Wildfire Burn Severity in the Arctic Tundra from Downsampled MODIS Data. <i>Arctic, Antarctic, and Alpine Research</i> , 2013, 45, 64-76.	0.4	25

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73	Relationships between climate and macroscale area burned in the western United States. <i>International Journal of Wildland Fire</i> , 2013, 22, 1003.	1.0	300
74	Carbon stocks of trees killed by bark beetles and wildfire in the western United States. <i>Environmental Research Letters</i> , 2013, 8, 035032.	2.2	83
75	Effects of an introductory geography course on student perceptions of geography at the University of Idaho. <i>Journal of Geography in Higher Education</i> , 2013, 37, 515-535.	1.4	6
76	Wildfire Management and Forecasting Fire Potential: The Roles of Climate Information and Social Networks in the Southwest United States. <i>Weather, Climate, and Society</i> , 2012, 4, 90-102.	0.5	35
77	Mapped versus actual burned area within wildfire perimeters: Characterizing the unburned. <i>Forest Ecology and Management</i> , 2012, 286, 38-47.	1.4	155
78	Wildfire Consumption and Interannual Impacts by Land Cover in Alaskan Boreal Forest. <i>Fire Ecology</i> , 2012, 8, 98-114.	1.1	9
79	A Case for Developing Place-Based Fire Management Strategies from Traditional Ecological Knowledge. <i>Ecology and Society</i> , 2012, 17, .	1.0	31
80	Climate Change in Western US Deserts: Potential for Increased Wildfire and Invasive Annual Grasses. <i>Rangeland Ecology and Management</i> , 2011, 64, 471-478.	1.1	189
81	Fire Frequency, Area Burned, and Severity: A Quantitative Approach to Defining a Normal Fire Year. <i>Fire Ecology</i> , 2011, 7, 51-65.	1.1	62
82	Relative importance of weather and climate on wildfire growth in interior Alaska. <i>International Journal of Wildland Fire</i> , 2011, 20, 479.	1.0	70
83	Beyond wildfire: perspectives of climate, managed fire and policy in the USA. <i>International Journal of Wildland Fire</i> , 2010, 19, 364.	1.0	23
84	Fire Behavior, Weather, and Burn Severity of the 2007 Anaktuvuk River Tundra Fire, North Slope, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2009, 41, 309-316.	0.4	115
85	Assessing Accuracy of Manually-mapped Wildfire Perimeters in Topographically Dissected Areas. <i>Fire Ecology</i> , 2007, 3, 22-31.	1.1	42
86	Fire Refugia: What Are They, and Why Do They Matter for Global Change?. <i>BioScience</i> , 0, , .	2.2	51