

Hanna Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

3,171
citations

18
h-index

56
g-index

61
ext. papers

3,691
ext. citations

7.4
avg, IF

4.74
L-index

#	Paper	IF	Citations
41	Vulnerability of Permafrost Carbon to Climate Change: Implications for the Global Carbon Cycle. <i>BioScience</i> , 2008 , 58, 701-714	5.7	1138
40	The effect of permafrost thaw on old carbon release and net carbon exchange from tundra. <i>Nature</i> , 2009 , 459, 556-9	50.4	837
39	Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. <i>Global Change Biology</i> , 2014 , 20, 641-52	11.4	186
38	Early stage litter decomposition across biomes. <i>Science of the Total Environment</i> , 2018 , 628-629, 1369-1394	10.2	117
37	The rate of permafrost carbon release under aerobic and anaerobic conditions and its potential effects on climate. <i>Global Change Biology</i> , 2012 , 18, 515-527	11.4	115
36	Improved simulation of the terrestrial hydrological cycle in permafrost regions by the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2012 , 4, n/a-n/a	7.1	106
35	An accounting of C-based trace gas release during abiotic plant litter degradation. <i>Global Change Biology</i> , 2012 , 18, 1185-1195	11.4	87
34	Soil moisture and soil-litter mixing effects on surface litter decomposition: A controlled environment assessment. <i>Soil Biology and Biochemistry</i> , 2014 , 72, 123-132	7.5	76
33	Patchy field sampling biases understanding of climate change impacts across the Arctic. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1443-1448	12.3	71
32	Response of CO ₂ exchange in a tussock tundra ecosystem to permafrost thaw and thermokarst development. <i>Journal of Geophysical Research</i> , 2009 , 114,		68
31	Effects of excess ground ice on projections of permafrost in a warming climate. <i>Environmental Research Letters</i> , 2014 , 9, 124006	6.2	47
30	Thaw processes in ice-rich permafrost landscapes represented with laterally coupled tiles in a land surface model. <i>Cryosphere</i> , 2019 , 13, 591-609	5.5	40
29	Function of 3' non-coding sequences and stop codon usage in expression of the chloroplast psbB gene in <i>Chlamydomonas reinhardtii</i> . <i>Plant Molecular Biology</i> , 1996 , 31, 337-54	4.6	38
28	Impact of idealized future stratospheric aerosol injection on the large-scale ocean and land carbon cycles. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2-27	3.7	36
27	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020 , 11, 22-37	7.7	35
26	A spatially explicit analysis to extrapolate carbon fluxes in upland tundra where permafrost is thawing. <i>Global Change Biology</i> , 2011 , 17, 1379-1393	11.4	30
25	Soil CO ₂ production in upland tundra where permafrost is thawing. <i>Journal of Geophysical Research</i> , 2010 , 115,		30

24	Nitrogen cycling in CMIP6 land surface models: progress and limitations. <i>Biogeosciences</i> , 2020 , 17, 5129-5148	5.1	148
23	Modeled Microbial Dynamics Explain the Apparent Temperature Sensitivity of Wetland Methane Emissions. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006678	5.9	12
22	Consequences of permafrost degradation for Arctic infrastructure [bridging the model gap between regional and engineering scales. <i>Cryosphere</i> , 2021 , 15, 2451-2471	5.5	11
21	The Response of Permafrost and High-Latitude Ecosystems Under Large-Scale Stratospheric Aerosol Injection and Its Termination. <i>Earth's Future</i> , 2019 , 7, 605-614	7.9	8
20	Ground subsidence effects on simulating dynamic high-latitude surface inundation under permafrost thaw using CLM5. <i>Geoscientific Model Development</i> , 2019 , 12, 5291-5300	6.3	7
19	Long-Term Climate Regime Modulates the Impact of Short-Term Climate Variability on Decomposition in Alpine Grassland Soils. <i>Ecosystems</i> , 2018 , 21, 1580-1592	3.9	7
18	A novel source of atmospheric H ₂ : abiotic degradation of organic material. <i>Biogeosciences</i> , 2012 , 9, 4411-4419	4.6	6
17	Site-directed mutagenesis and analysis of second-site revertants indicates a requirement for C-terminal amino acids of PsaB for stable assembly of the photosystem I reaction center complex in <i>Chlamydomonas reinhardtii</i> . <i>Photochemistry and Photobiology</i> , 1996 , 64, 46-52	3.6	6
16	Designing and evaluating regional climate simulations for high latitude land use land cover change studies. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2020 , 72, 1-17	2	6
15	Plant phenology evaluation of CRESCENDO land surface models [Part 1: Start and end of the growing season. <i>Biogeosciences</i> , 2021 , 18, 2405-2428	4.6	5
14	Early exposure to UV radiation overshadowed by precipitation and litter quality as drivers of decomposition in the northern Chihuahuan Desert. <i>PLoS ONE</i> , 2019 , 14, e0210470	3.7	5
13	Projecting circum-Arctic excess-ground-ice melt with a sub-grid representation in the Community Land Model. <i>Cryosphere</i> , 2020 , 14, 4611-4626	5.5	4
12	Emergy Analysis of Korean Agriculture. <i>Korean Journal of Environmental Agriculture</i> , 2005 , 24, 169-179	0.6	3
11	Scaling climate change experiments across space and time. <i>New Phytologist</i> , 2013 , 200, 595-597	9.8	2
10	Consequences of permafrost degradation for Arctic infrastructure [bridging the model gap between regional and engineering scales		2
9	Explicitly modelling microtopography in permafrost landscapes in a land-surface model (JULES vn5.4_microtopography)		
8	Explaining landscape preference heterogeneity using machine learning-based survey analysis. <i>Landscape Research</i> , 1-18	1.4	2
7	Impact of Quasi-Idealized Future Land Cover Scenarios at High Latitudes in Complex Terrain. <i>Earth's Future</i> , 2021 , 9, e2020EF001838	7.9	2

6	A novel source of atmospheric H ₂ : abiotic degradation of organic material		1
5	Explicitly modelling microtopography in permafrost landscapes in a land surface model (JULES vn5.4_microtopography). <i>Geoscientific Model Development</i> , 2022 , 15, 3603-3639	6.3	1
4	The response of terrestrial ecosystem carbon cycling under different aerosol-based radiation management geoengineering. <i>Earth System Dynamics</i> , 2021 , 12, 313-326	4.8	0
3	Possibility for strong northern hemisphere high-latitude cooling under negative emissions.. <i>Nature Communications</i> , 2022 , 13, 1095	17.4	0
2	Enhancing terrestrial ecosystem sciences by integrating empirical modeling approaches. <i>Eos</i> , 2012 , 93, 237-237	1.5	
1	Enhanced Uptake of Cadmium by Native Plant (<i>Artemisia princeps</i> var. <i>orientalis</i>) Using Ethylenediaminetetraacetic Acid. <i>Journal of Biological Sciences</i> , 2007 , 7, 681-684	0.4	