Adrian Rocha

List of Publications by Year
in descending order

39 papers	1,946 citations	331259 21 h-index	329751 37 g-index
39 all docs	39 docs citations	39 times ranked	3143 citing authors

#	Article	IF	Citations
1	Small herbivores with big impacts: Tundra voles (<i>Microtus oeconomus</i>) alter postâ€fire ecosystem dynamics. Ecology, 2022, 103, e3689.	1.5	4
2	Range shifts in a foundation sedge potentially induce large Arctic ecosystem carbon losses and gains. Environmental Research Letters, 2022, 17, 045024.	2.2	5
3	An Open-Source, Durable, and Low-Cost Alternative to Commercially Available Soil Temperature Data Loggers. Sensors, 2022, 22, 148.	2.1	0
4	Solar position confounds the relationship between ecosystem function and vegetation indices derived from solar and photosynthetically active radiation fluxes. Agricultural and Forest Meteorology, 2021, 298-299, 108291.	1.9	10
5	Synergies Among Environmental Science Research and Monitoring Networks: A Research Agenda. Earth's Future, 2021, 9, e2020EF001631.	2.4	5
6	Active layer thickness as a function of soil water content. Environmental Research Letters, 2021, 16, 055028.	2.2	35
7	Surface moisture budget of tundra and boreal ecosystems in Alaska: Variations and drivers. Polar Science, 2021, 29, 100685.	0.5	4
8	Alleviation of nutrient coâ€limitation induces regime shifts in postâ€fire community composition and productivity in Arctic tundra. Global Change Biology, 2021, 27, 3324-3335.	4.2	13
9	Soil respiration strongly offsets carbon uptake in Alaska and Northwest Canada. Environmental Research Letters, 2021, 16, 084051.	2.2	23
10	Tundra wildfire triggers sustained lateral nutrient loss in Alaskan Arctic. Global Change Biology, 2021, 27, 1408-1430.	4.2	29
11	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. Environmental Research Letters, 2021, 16, 015001.	2.2	39
12	Limited overall impacts of ectomycorrhizal inoculation on recruitment of boreal trees into Arctic tundra following wildfire belie species-specific responses. PLoS ONE, 2020, 15, e0235932.	1.1	4
13	Plant Uptake Offsets Silica Release From a Large Arctic Tundra Wildfire. Earth's Future, 2019, 7, 1044-1057.	2.4	13
14	Differential responses of ecotypes to climate in a ubiquitous Arctic sedge: implications for future ecosystem C cycling. New Phytologist, 2019, 223, 180-192.	3.5	16
15	Is arctic greening consistent with the ecology of tundra? Lessons from an ecologically informed mass balance model. Environmental Research Letters, 2018, 13, 125007.	2.2	9
16	Groundwater Controls on Postfire Permafrost Thaw: Water and Energy Balance Effects. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2677-2694.	1.0	26
17	Reviews and syntheses: Changing ecosystem influences on soil thermal regimes in northern high-latitude permafrost regions. Biogeosciences, 2018, 15, 5287-5313.	1.3	143
18	A test of functional convergence in carbon fluxes from coupled C and N cycles in Arctic tundra. Ecological Modelling, 2018, 383, 31-40.	1.2	10

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19	Modeling longâ€term changes in tundra carbon balance following wildfire, climate change, and potential nutrient addition. Ecological Applications, 2017, 27, 105-117.	1.8	23
20	Câ€"Nâ€"P interactions control climate driven changes in regional patterns of C storage on the North Slope of Alaska. Landscape Ecology, 2016, 31, 195-213.	1.9	28
21	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	2.2	199
22	Contrasting soil thermal responses to fire in Alaskan tundra and boreal forest. Journal of Geophysical Research F: Earth Surface, 2015, 120, 363-378.	1.0	53
23	Modeling carbonâ€"nutrient interactions during the early recovery of tundra after fire. Ecological Applications, 2015, 25, 1640-1652.	1.8	32
24	Arctic tundra fires: natural variability and responses to climate change. Frontiers in Ecology and the Environment, 2015, 13, 369-377.	1.9	135
25	Assessing the spatial variability in peak season CO₂ exchange characteristics across the Arctic tundra using a light response curve parameterization. Biogeosciences, 2014, 11, 4897-4912.	1.3	20
26	Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456.	4.2	52
27	Tracking carbon within the trees. New Phytologist, 2013, 197, 685-686.	3.5	16
28	Identification of unrecognized tundra fire events on the north slope of Alaska. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1334-1344.	1.3	58
29	Vegetation shifts observed in arctic tundra 17 years after fire. Remote Sensing Letters, 2012, 3, 729-736.	0.6	55
30	The footprint of Alaskan tundra fires during the past half-century: implications for surface properties and radiative forcing. Environmental Research Letters, 2012, 7, 044039.	2.2	98
31	Evaluation of Moderate-resolution Imaging Spectroradiometer (MODIS) snow albedo product (MCD43A) over tundra. Remote Sensing of Environment, 2012, 117, 264-280.	4.6	137
32	Understanding burn severity sensing in Arctic tundra: exploring vegetation indices, suboptimal assessment timing and the impact of increasing pixel size. International Journal of Remote Sensing, 2011, 32, 7033-7056.	1.3	23
33	Burn severity influences postfire CO₂exchange in arctic tundra. , 2011, 21, 477-489.		67
34	Postfire energy exchange in arctic tundra: the importance and climatic implications of burn severity. Global Change Biology, 2011, 17, 2831-2841.	4.2	87
35	Scaling an Instantaneous Model of Tundra NEE to the Arctic Landscape. Ecosystems, 2011, 14, 76-93.	1.6	39
36	Advantages of a two band EVI calculated from solar and photosynthetically active radiation fluxes. Agricultural and Forest Meteorology, 2009, 149, 1560-1563.	1.9	151

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37	Standing litter as a driver of interannual CO₂ exchange variability in a freshwater marsh. Journal of Geophysical Research, 2008, 113, .	3.3	27
38	On linking interannual tree ring variability with observations of whole-forest CO2 flux. Global Change Biology, 2006, 12, 1378-1389.	4.2	89
39	An eddy covariance mesonet to measure the effect of forest age on land-atmosphere exchange. Global Change Biology, 2006, 12, 2146-2162.	4.2	169