

Nichole N Barger

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,116
citations

304602

22
h-index

243529

44
g-index

48
all docs

48
docs citations

48
times ranked

2171
citing authors

#	ARTICLE	IF	CITATIONS
1	Woody plant proliferation in North American drylands: A synthesis of impacts on ecosystem carbon balance. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	218
2	Impacts of Biological Soil Crust Disturbance and Composition on C and N Loss from Water Erosion. <i>Biogeochemistry</i> , 2006, 77, 247-263.	1.7	164
3	Wind erosion and dust from <sc>US</sc> drylands: a review of causes, consequences, and solutions in a changing world. <i>Ecosphere</i> , 2019, 10, e02650.	1.0	151
4	The pervasive and multifaceted influence of biocrusts on water in the world's drylands. <i>Global Change Biology</i> , 2020, 26, 6003-6014.	4.2	129
5	Patterns and Controls on Nitrogen Cycling of Biological Soil Crusts. <i>Ecological Studies</i> , 2016, , 257-285.	0.4	113
6	Declines in pinyon pine cone production associated with regional warming. <i>Ecosphere</i> , 2012, 3, 1-14.	1.0	95
7	Biological soil crust and disturbance controls on surface hydrology in a semi-arid ecosystem. <i>Ecosphere</i> , 2017, 8, e01691.	1.0	94
8	Towards a predictive framework for biocrust mediation of plant performance: A meta-analysis. <i>Journal of Ecology</i> , 2019, 107, 2789-2807.	1.9	92
9	Ecophysiological traits associated with the competitive ability of invasive Australian acacias. <i>Diversity and Distributions</i> , 2011, 17, 898-910.	1.9	88
10	What is a biocrust? A refined, contemporary definition for a broadening research community. <i>Biological Reviews</i> , 2022, 97, 1768-1785.	4.7	87
11	Drivers of seedling establishment success in dryland restoration efforts. <i>Nature Ecology and Evolution</i> , 2021, 5, 1283-1290.	3.4	75
12	Are Namibian "Fairy Circles" the Consequence of Self-Organizing Spatial Vegetation Patterning?. <i>PLoS ONE</i> , 2013, 8, e70876.	1.1	65
13	Nursing biocrusts: isolation, cultivation, and fitness test of indigenous cyanobacteria. <i>Restoration Ecology</i> , 2019, 27, 793-803.	1.4	62
14	Impacts of disturbance on the terrestrial carbon budget of North America. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 303-316.	1.3	57
15	Microbial Nursery Production of High-Quality Biological Soil Crust Biomass for Restoration of Degraded Dryland Soils. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	55
16	Maximizing establishment and survivorship of field-collected and greenhouse-cultivated biocrusts in a semi-cold desert. <i>Plant and Soil</i> , 2018, 429, 213-225.	1.8	53
17	Tree regeneration following drought- and insect-induced mortality in piñon juniper woodlands. <i>New Phytologist</i> , 2013, 200, 402-412.	3.5	46
18	Responses of biological soil crusts to rehabilitation strategies. <i>Journal of Arid Environments</i> , 2019, 163, 77-85.	1.2	39

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19	Woodland recovery following drought-induced tree mortality across an environmental stress gradient. <i>Global Change Biology</i> , 2015, 21, 3685-3695.	4.2	38
20	How to halt the global decline of lands. <i>Nature Sustainability</i> , 2020, 3, 164-166.	11.5	38
21	Induced biological soil crust controls on wind erodibility and dust (PM10) emissions. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 224-236.	1.2	29
22	Inoculation and habitat amelioration efforts in biological soil crust recovery vary by desert and soil texture. <i>Restoration Ecology</i> , 2020, 28, S96.	1.4	26
23	Addressing barriers to improve biocrust colonization and establishment in dryland restoration. <i>Restoration Ecology</i> , 2020, 28, S150.	1.4	25
24	Interacting effects of climate and landscape physiography on piñon pine growth using an individual-based approach. <i>Ecosphere</i> , 2017, 8, e01681.	1.0	24
25	Edaphic properties enable facilitative and competitive interactions resulting in fairy circle formation. <i>Ecography</i> , 2017, 40, 1210-1220.	2.1	24
26	Optimizing the Production of Nursery-Based Biological Soil Crusts for Restoration of Arid Land Soils. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	24
27	Species, Climate and Landscape Physiography Drive Variable Growth Trends in Subalpine Forests. <i>Ecosystems</i> , 2018, 21, 125-140.	1.6	20
28	Biocrusts and their disturbance mediate the recruitment of native and exotic grasses from a hot desert ecosystem. <i>Ecosphere</i> , 2018, 9, e02361.	1.0	20
29	Hydrological function of rapidly induced biocrusts. <i>Ecohydrology</i> , 2019, 12, e2089.	1.1	19
30	Effect of preconditioning to the soil environment on the performance of 20 cyanobacterial strains used as inoculum for biocrust restoration. <i>Restoration Ecology</i> , 2020, 28, S187.	1.4	17
31	Ultra-high-resolution mapping of biocrusts with Unmanned Aerial Systems. <i>Remote Sensing in Ecology and Conservation</i> , 2020, 6, 441-456.	2.2	17
32	Transforming Graduate Training in STEM Education. <i>Bulletin of the Ecological Society of America</i> , 2015, 96, 317-323.	0.2	16
33	Microsite enhancements for soil stabilization and rapid biocrust colonization in degraded drylands. <i>Restoration Ecology</i> , 2020, 28, S139.	1.4	16
34	Piñon pine (<i>Pinus edulis</i> Engelm.) growth responses to climate and substrate in southern Utah, U.S.A.. <i>Plant Ecology</i> , 2015, 216, 913-923.	0.7	10
35	Ecophysiological traits of invasive alien <i>Acacia cyclops</i> compared to co-occurring native species in Strandveld vegetation of the Cape Floristic Region. <i>Austral Ecology</i> , 2020, 45, 48-59.	0.7	9
36	Biocrusts are associated with increased plant biomass and nutrition at seedling stage independently of root-associated fungal colonization. <i>Plant and Soil</i> , 2020, 446, 331-342.	1.8	9

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37	Consequences of Pinon-Juniper Woodland Fuel Reduction: Prescribed Fire Increases Soil Erosion While Mastication Does Not. <i>Ecosystems</i> , 2022, 25, 122-135.	1.6	9
38	Assessing the Impact of Science in the Implementation of the United Nations Convention to Combat Desertification. <i>Land</i> , 2022, 11, 568.	1.2	9
39	Microbial inoculum production for biocrust restoration: testing the effects of a common substrate versus native soils on yield and community composition. <i>Restoration Ecology</i> , 2020, 28, S194.	1.4	8
40	Biocrust and the soil surface: Influence of climate, disturbance, and biocrust recovery on soil surface roughness. <i>Geoderma</i> , 2021, 403, 115369.	2.3	8
41	Competitive resistance of a native shrubland to invasion by the alien invasive tree species, <i>Acacia cyclops</i> . <i>Biological Invasions</i> , 2015, 17, 3563-3577.	1.2	6
42	Broader Impacts for Ecologists: Biological Soil Crust as a Model System for Education. <i>Frontiers in Microbiology</i> , 2020, 11, 577922.	1.5	4
43	Fairy circles in Namibia are assembled from genetically distinct grasses. <i>Communications Biology</i> , 2020, 3, 698.	2.0	3
44	Keys to a Successful Student-Centered Classroom: Three Recommendations. <i>Bulletin of the Ecological Society of America</i> , 2014, 95, 281-292.	0.2	2
45	Understanding the role of policy frameworks in developing land degradation in stakeholders perception from a post-conflict perspective in Bosnia and Herzegovina. <i>Land Degradation and Development</i> , 2021, 32, 3393-3402.	1.8	2
46	Generalist indigenous herbivores resist alien tree invasion: <i>Rhabdomys pumilio</i> limits establishment of <i>Acacia cyclops</i> . <i>Biological Invasions</i> , 0, , 1.	1.2	1
47	Advocating for Science Writing Cooperatives in Graduate Programs. <i>Bulletin of the Ecological Society of America</i> , 2013, 94, 245-246.	0.2	0