

# Sasha C Reed

## List of Publications by Year in descending order

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Version: 2024-02-01

137  
papers

10,565  
citations

30070

54  
h-index

36028

97  
g-index

145  
all docs

145  
docs citations

145  
times ranked

11555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	7.8	543
2	Biological nitrogen fixation: rates, patterns and ecological controls in terrestrial ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130119.	4.0	537
3	Functional Ecology of Free-Living Nitrogen Fixation: A Contemporary Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 489-512.	8.3	479
4	Microbial community assembly and metabolic function during mammalian corpse decomposition. <i>Science</i> , 2016, 351, 158-162.	12.6	381
5	Relationships among net primary productivity, nutrients and climate in tropical rain forest: a pan-tropical analysis. <i>Ecology Letters</i> , 2011, 14, 939-947.	6.4	379
6	The origin of litter chemical complexity during decomposition. <i>Ecology Letters</i> , 2012, 15, 1180-1188.	6.4	316
7	Large divergence of satellite and Earth system model estimates of global terrestrial CO <sub>2</sub> fertilization. <i>Nature Climate Change</i> , 2016, 6, 306-310.	18.8	309
8	BIOGEOCHEMICAL CONSEQUENCES OF RAPID MICROBIAL TURNOVER AND SEASONAL SUCCESSION IN SOIL. <i>Ecology</i> , 2007, 88, 1379-1385.	3.2	297
9	Patterns of new versus recycled primary production in the terrestrial biosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12733-12737.	7.1	270
10	Changes to dryland rainfall result in rapid moss mortality and altered soil fertility. <i>Nature Climate Change</i> , 2012, 2, 752-755.	18.8	257
11	NUTRIENT REGULATION OF ORGANIC MATTER DECOMPOSITION IN A TROPICAL RAIN FOREST. <i>Ecology</i> , 2006, 87, 492-503.	3.2	225
12	Climate change and physical disturbance cause similar community shifts in biological soil crusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12116-12121.	7.1	225
13	The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2793-2802.	2.6	222
14	Remote sensing of dryland ecosystem structure and function: Progress, challenges, and opportunities. <i>Remote Sensing of Environment</i> , 2019, 233, 111401.	11.0	193
15	Stoichiometric patterns in foliar nutrient resorption across multiple scales. <i>New Phytologist</i> , 2012, 196, 173-180.	7.3	190
16	Convergent responses of nitrogen and phosphorus resorption to nitrogen inputs in a semiarid grassland. <i>Global Change Biology</i> , 2013, 19, 2775-2784.	9.5	171
17	Temporal Variation in Community Composition, Pigmentation, and Fv/Fm of Desert Cyanobacterial Soil Crusts. <i>Microbial Ecology</i> , 2002, 43, 13-25.	2.8	169
18	Litter quality versus soil microbial community controls over decomposition: a quantitative analysis. <i>Oecologia</i> , 2014, 174, 283-294.	2.0	169

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19	Urgent need for warming experiments in tropical forests. <i>Global Change Biology</i> , 2015, 21, 2111-2121.	9.5	168
20	Incorporating phosphorus cycling into global modeling efforts: a worthwhile, tractable endeavor. <i>New Phytologist</i> , 2015, 208, 324-329.	7.3	163
21	Experimental drought in a tropical rain forest increases soil carbon dioxide losses to the atmosphere. <i>Ecology</i> , 2010, 91, 2313-2323.	3.2	155
22	Changes in belowground biodiversity during ecosystem development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6891-6896.	7.1	151
23	Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , 2019, 10, 3481.	12.8	148
24	Spatially robust estimates of biological nitrogen (N) fixation imply substantial human alteration of the tropical N cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8101-8106.	7.1	138
25	Fumarole-Supported Islands of Biodiversity within a Hyperarid, High-Elevation Landscape on Socompa Volcano, Puna de Atacama, Andes. <i>Applied and Environmental Microbiology</i> , 2009, 75, 735-747.	3.1	133
26	The pervasive and multifaceted influence of biocrusts on water in the world's drylands. <i>Global Change Biology</i> , 2020, 26, 6003-6014.	9.5	129
27	Controls Over Leaf Litter and Soil Nitrogen Fixation in Two Lowland Tropical Rain Forests. <i>Biotropica</i> , 2007, 39, 585-592.	1.6	124
28	Microbial community shifts influence patterns in tropical forest nitrogen fixation. <i>Oecologia</i> , 2010, 164, 521-531.	2.0	120
29	Phosphorus fertilization stimulates nitrogen fixation and increases inorganic nitrogen concentrations in a restored prairie. <i>Applied Soil Ecology</i> , 2007, 36, 238-242.	4.3	118
30	Biocrusts: the living skin of the earth. <i>Plant and Soil</i> , 2018, 429, 1-7.	3.7	111
31	Tropical forest carbon balance in a warmer world: a critical review spanning microbial to ecosystem scale processes. <i>Biological Reviews</i> , 2012, 87, 912-927.	10.4	109
32	TREE SPECIES CONTROL RATES OF FREE-LIVING NITROGEN FIXATION IN A TROPICAL RAIN FOREST. <i>Ecology</i> , 2008, 89, 2924-2934.	3.2	107
33	Production of greenhouse-grown biocrust mosses and associated cyanobacteria to rehabilitate dryland soil function. <i>Restoration Ecology</i> , 2016, 24, 324-335.	2.9	95
34	Biological soil crusts: diminutive communities of potential global importance. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 160-167.	4.0	88
35	Assessing nutrient limitation in complex forested ecosystems: alternatives to large scale fertilization experiments. <i>Ecology</i> , 2014, 95, 668-681.	3.2	87
36	What is a biocrust? A refined, contemporary definition for a broadening research community. <i>Biological Reviews</i> , 2022, 97, 1768-1785.	10.4	87

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37	Albedo feedbacks to future climate via climate change impacts on dryland biocrusts. <i>Scientific Reports</i> , 2017, 7, 44188.	3.3	84
38	Soil CO <sub>2</sub> flux and photoautotrophic community composition in high-elevation, "barren" soil. <i>Environmental Microbiology</i> , 2009, 11, 674-686.	3.8	83
39	Water from air: an overlooked source of moisture in arid and semiarid regions. <i>Scientific Reports</i> , 2015, 5, 13767.	3.3	81
40	Relationships among phosphorus, molybdenum and free-living nitrogen fixation in tropical rain forests: results from observational and experimental analyses. <i>Biogeochemistry</i> , 2013, 114, 135-147.	3.5	80
41	Observations of net soil exchange of CO <sub>2</sub> in a dryland show experimental warming increases carbon losses in biocrust soils. <i>Biogeochemistry</i> , 2015, 126, 363-378.	3.5	74
42	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. <i>BioScience</i> , 2020, 70, 35-47.	4.9	74
43	Biocrusts enhance soil fertility and <i>Bromus tectorum</i> growth, and interact with warming to influence germination. <i>Plant and Soil</i> , 2018, 429, 77-90.	3.7	71
44	Temperate and Tropical Forest Canopies are Already Functioning beyond Their Thermal Thresholds for Photosynthesis. <i>Forests</i> , 2018, 9, 47.	2.1	71
45	Functional shifts in unvegetated, perhumid, recently-deglaciated soils do not correlate with shifts in soil bacterial community composition. <i>Journal of Microbiology</i> , 2009, 47, 673-681.	2.8	70
46	Five Decades of Observed Daily Precipitation Reveal Longer and More Variable Drought Events Across Much of the Western United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092293.	4.0	70
47	Climate Change and Physical Disturbance Manipulations Result in Distinct Biological Soil Crust Communities. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7448-7459.	3.1	66
48	C3 and C4 plant responses to increased temperatures and altered monsoonal precipitation in a cool desert on the Colorado Plateau, USA. <i>Oecologia</i> , 2015, 177, 997-1013.	2.0	64
49	Bacterial, fungal, and plant communities exhibit no biomass or compositional response to two years of simulated nitrogen deposition in a semiarid grassland. <i>Environmental Microbiology</i> , 2017, 19, 1600-1611.	3.8	62
50	Shrub persistence and increased grass mortality in response to drought in dryland systems. <i>Global Change Biology</i> , 2019, 25, 3121-3135.	9.5	60
51	Are patterns in nutrient limitation belowground consistent with those aboveground: results from a 4 million year chronosequence. <i>Biogeochemistry</i> , 2011, 106, 323-336.	3.5	59
52	Management intensity alters decomposition via biological pathways. <i>Biogeochemistry</i> , 2011, 104, 365-379.	3.5	58
53	The concurrent use of novel soil surface microclimate measurements to evaluate CO <sub>2</sub> pulses in biocrusted interspaces in a cool desert ecosystem. <i>Biogeochemistry</i> , 2017, 135, 239-249.	3.5	58
54	From pools to flow: The PROMISE framework for new insights on soil carbon cycling in a changing world. <i>Global Change Biology</i> , 2020, 26, 6631-6643.	9.5	57

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55	Ecological consequences of the expansion of N <sub>2</sub> -fixing plants in cold biomes. <i>Oecologia</i> , 2014, 176, 11-24.	2.0	55
56	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.	3.7	53
57	Infrared heater system for warming tropical forest understory plants and soils. <i>Ecology and Evolution</i> , 2018, 8, 1932-1944.	1.9	51
58	Nutrient resorption helps drive intra-specific coupling of foliar nitrogen and phosphorus under nutrient-enriched conditions. <i>Plant and Soil</i> , 2016, 398, 111-120.	3.7	50
59	Climatic Sensitivity of Dryland Soil CO <sub>2</sub> Fluxes Differs Dramatically with Biological Soil Crust Successional State. <i>Ecosystems</i> , 2019, 22, 15-32.	3.4	49
60	Improving predictions of tropical forest response to climate change through integration of field studies and ecosystem modeling. <i>Global Change Biology</i> , 2018, 24, e213-e232.	9.5	48
61	Phosphorus Cycling in Tropical Forests Growing on Highly Weathered Soils. <i>Soil Biology</i> , 2011, , 339-369.	0.8	47
62	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020, 11, 4721.	12.8	47
63	Biocrusts in the Context of Global Change. <i>Ecological Studies</i> , 2016, , 451-476.	1.2	45
64	Using indirect methods to constrain symbiotic nitrogen fixation rates: a case study from an Amazonian rain forest. <i>Biogeochemistry</i> , 2010, 99, 1-13.	3.5	44
65	Eco-evolutionary responses of <i>Bromus tectorum</i> to climate change: implications for biological invasions. <i>Ecology and Evolution</i> , 2013, 3, 1374-1387.	1.9	41
66	Effects of canopy tree species on belowground biogeochemistry in a lowland wet tropical forest. <i>Soil Biology and Biochemistry</i> , 2013, 58, 61-69.	8.8	38
67	Species-specific nitrogenase activity in lichen-dominated biological soil crusts from the Colorado Plateau, USA. <i>Plant and Soil</i> , 2018, 429, 113-125.	3.7	37
68	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. <i>Environmental Research Letters</i> , 2018, 13, 125006.	5.2	36
69	Terrestrial nitrogen cycling in Earth system models revisited. <i>New Phytologist</i> , 2016, 210, 1165-1168.	7.3	35
70	Experimental warming in a dryland community reduced plant photosynthesis and soil CO <sub>2</sub> efflux although the relationship between the fluxes remained unchanged. <i>Functional Ecology</i> , 2017, 31, 297-305.	3.6	34
71	Ecohydrological role of biological soil crusts across a gradient in levels of development. <i>Ecohydrology</i> , 2017, 10, e1875.	2.4	31
72	Only sun-lit leaves of the uppermost canopy exceed both air temperature and photosynthetic thermal optima in a wet tropical forest. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108347.	4.8	31

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73	Low soil moisture during hot periods drives apparent negative temperature sensitivity of soil respiration in a dryland ecosystem: a multi-model comparison. <i>Biogeochemistry</i> , 2016, 128, 155-169.	3.5	30
74	Agricultural conversion without external water and nutrient inputs reduces terrestrial vegetation productivity. <i>Geophysical Research Letters</i> , 2014, 41, 449-455.	4.0	29
75	Reviews and syntheses: Field data to benchmark the carbon cycle models for tropical forests. <i>Biogeosciences</i> , 2017, 14, 4663-4690.	3.3	27
76	Estimating phosphorus availability for microbial growth in an emerging landscape. <i>Geoderma</i> , 2011, 163, 135-140.	5.1	26
77	Patterns of longer-term climate change effects on CO <sub>2</sub> efflux from biocrusted soils differ from those observed in the short term. <i>Biogeosciences</i> , 2018, 15, 4561-4573.	3.3	26
78	Inoculation and habitat amelioration efforts in biological soil crust recovery vary by desert and soil texture. <i>Restoration Ecology</i> , 2020, 28, S96.	2.9	26
79	Satellite solar-induced chlorophyll fluorescence and near-infrared reflectance capture complementary aspects of dryland vegetation productivity dynamics. <i>Remote Sensing of Environment</i> , 2022, 270, 112858.	11.0	26
80	Beyond traditional ecological restoration on the Colorado Plateau. <i>Restoration Ecology</i> , 2018, 26, 1055-1060.	2.9	25
81	Earlier plant growth helps compensate for reduced carbon fixation after 13 years of warming. <i>Functional Ecology</i> , 2019, 33, 2071-2080.	3.6	25
82	Addressing barriers to improve biocrust colonization and establishment in dryland restoration. <i>Restoration Ecology</i> , 2020, 28, S150.	2.9	25
83	Coexistence of multiple leaf nutrient resorption strategies in a single ecosystem. <i>Science of the Total Environment</i> , 2021, 772, 144951.	8.0	25
84	Bioenergy Potential of the United States Constrained by Satellite Observations of Existing Productivity. <i>Environmental Science &amp; Technology</i> , 2012, 46, 3536-3544.	10.0	24
85	Elevated CO <sub>2</sub> did not mitigate the effect of a short-term drought on biological soil crusts. <i>Biology and Fertility of Soils</i> , 2012, 48, 797-805.	4.3	22
86	Nitrogenase activity by biological soil crusts in cold sagebrush steppe ecosystems. <i>Biogeochemistry</i> , 2017, 134, 57-76.	3.5	22
87	Biological nitrogen fixation across major biomes in Latin America: Patterns and global change effects. <i>Science of the Total Environment</i> , 2020, 746, 140998.	8.0	22
88	Photosynthetic and Respiratory Acclimation of Understory Shrubs in Response to in situ Experimental Warming of a Wet Tropical Forest. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	21
89	Soil biogeochemical responses of a tropical forest to warming and hurricane disturbance. <i>Advances in Ecological Research</i> , 2020, , 225-252.	2.7	21
90	Altered climate leads to positive density-dependent feedbacks in a tropical wet forest. <i>Global Change Biology</i> , 2020, 26, 3417-3428.	9.5	20

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91	Multiple mechanisms determine the effect of warming on plant litter decomposition in a dryland. <i>Soil Biology and Biochemistry</i> , 2020, 145, 107799.	8.8	20
92	A roadmap for sampling and scaling biological nitrogen fixation in terrestrial ecosystems. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1122-1137.	5.2	20
93	Experimental warming across a tropical forest canopy height gradient reveals minimal photosynthetic and respiratory acclimation. <i>Plant, Cell and Environment</i> , 2021, 44, 2879-2897.	5.7	20
94	Biocrust science and global change. <i>New Phytologist</i> , 2019, 223, 1047-1051.	7.3	19
95	Nitrogen Enrichment Reduces Nitrogen and Phosphorus Resorption Through Changes to Species Resorption and Plant Community Composition. <i>Ecosystems</i> , 2021, 24, 602-612.	3.4	19
96	Global resorption efficiencies of trace elements in leaves of terrestrial plants. <i>Functional Ecology</i> , 2021, 35, 1596-1602.	3.6	19
97	Temporal and abiotic fluctuations may be preventing successful rehabilitation of soil-stabilizing biocrust communities. <i>Ecological Applications</i> , 2019, 29, e01908.	3.8	18
98	Vertical movement of soluble carbon and nutrients from biocrusts to subsurface mineral soils. <i>Geoderma</i> , 2022, 405, 115495.	5.1	18
99	Tropical understory herbaceous community responds more strongly to hurricane disturbance than to experimental warming. <i>Ecology and Evolution</i> , 2020, 10, 8906-8915.	1.9	16
100	Reductions in tree performance during hotter droughts are mitigated by shifts in nitrogen cycling. <i>Plant, Cell and Environment</i> , 2018, 41, 2627-2637.	5.7	15
101	Biological soil crust salvage for dryland restoration: an opportunity for natural resource restoration. <i>Restoration Ecology</i> , 2020, 28, S9.	2.9	14
102	Soil warming effects on tropical forests with highly weathered soils. , 2019, , 385-439.		13
103	Isotopic Evidence that Nitrogen Enrichment Intensifies Nitrogen Losses to the Atmosphere from Subtropical Mangroves. <i>Ecosystems</i> , 2019, 22, 1126-1144.	3.4	13
104	Resistance, Resilience, and Recovery of Dryland Soil Bacterial Communities Across Multiple Disturbances. <i>Frontiers in Microbiology</i> , 2021, 12, 648455.	3.5	13
105	Biogeochemical and ecosystem properties in three adjacent semi-arid grasslands are resistant to nitrogen deposition but sensitive to edaphic variability. <i>Journal of Ecology</i> , 2022, 110, 1615-1631.	4.0	13
106	Nitrogen Cycling Responses to Mountain Pine Beetle Disturbance in a High Elevation Whitebark Pine Ecosystem. <i>PLoS ONE</i> , 2013, 8, e65004.	2.5	12
107	Seed bank community and soil texture relationships in a cold desert. <i>Journal of Arid Environments</i> , 2019, 164, 46-52.	2.4	12
108	On the Shoulders of Giants: Continuing the Legacy of Large-Scale Ecosystem Manipulation Experiments in Puerto Rico. <i>Forests</i> , 2019, 10, 210.	2.1	12

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109	Interactions of Microhabitat and Time Control Grassland Bacterial and Fungal Composition. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	12
110	Experimental Warming Changes Phenology and Shortens Growing Season of the Dominant Invasive Plant <i>Bromus tectorum</i> (Cheatgrass). <i>Frontiers in Plant Science</i> , 2020, 11, 570001.	3.6	12
111	Experimental warming and its legacy effects on root dynamics following two hurricane disturbances in a wet tropical forest. <i>Global Change Biology</i> , 2021, 27, 6423-6435.	9.5	12
112	The consequences of climate change for dryland biogeochemistry. <i>New Phytologist</i> , 2022, 236, 15-20.	7.3	12
113	Multiple resource limitation of dryland soil microbial carbon cycling on the Colorado Plateau. <i>Ecology</i> , 2022, 103, e3671.	3.2	10
114	Photochemical Generation and Matrix-Isolation Detection of Dimethylvinylidene. <i>Journal of Organic Chemistry</i> , 2001, 66, 287-299.	3.2	9
115	Spectrally monitoring the response of the biocrust moss <i>Syntrichia caninervis</i> to altered precipitation regimes. <i>Scientific Reports</i> , 2017, 7, 41793.	3.3	9
116	Biocrust ecology: unifying micro- and macro-scales to confront global change. <i>New Phytologist</i> , 2017, 216, 643-646.	7.3	9
117	Temporal variability of foliar nutrients: responses to nitrogen deposition and prescribed fire in a temperate steppe. <i>Biogeochemistry</i> , 2017, 133, 295-305.	3.5	8
118	Warming and microbial uptake influence the fate of added soil carbon across a Hawai'ian weathering gradient. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108080.	8.8	8
119	Incorporating Biogeochemistry into Dryland Restoration. <i>BioScience</i> , 2021, 71, 907-917.	4.9	8
120	Muted responses to chronic experimental nitrogen deposition on the Colorado Plateau. <i>Oecologia</i> , 2021, 195, 513-524.	2.0	7
121	Spatial variation in edaphic characteristics is a stronger control than nitrogen inputs in regulating soil microbial effects on a desert grass. <i>Journal of Arid Environments</i> , 2017, 142, 59-65.	2.4	6
122	Riparian Plant Communities Remain Stable in Response to a Second Cycle of <i>Tamarix</i> Biocontrol Defoliation. <i>Wetlands</i> , 2020, 40, 1863-1875.	1.5	6
123	Quantifying the influence of different biocrust community states and their responses to warming temperatures on soil biogeochemistry in field and mesocosm studies. <i>Geoderma</i> , 2022, 409, 115633.	5.1	6
124	Conformational effects on the excited state 1,2-hydrogen migration in alkyldiazomethanes. <i>Tetrahedron Letters</i> , 1996, 37, 7209-7212.	1.4	5
125	Disentangling the complexities of how legumes and their symbionts regulate plant nitrogen access and storage. <i>New Phytologist</i> , 2017, 213, 478-480.	7.3	5
126	Spatially explicit patterns in a dryland's soil respiration and relationships with climate, whole plant photosynthesis and soil fertility. <i>Oikos</i> , 2018, 127, 1280-1290.	2.7	5



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127	Modest Residual Effects of Short-Term Warming, Altered Hydration, and Biocrust Successional State on Dryland Soil Heterotrophic Carbon and Nitrogen Cycling. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	5
128	Seasonal and individual event-responsiveness are key determinants of carbon exchange across plant functional types. <i>Oecologia</i> , 2020, 193, 811-825.	2.0	5
129	Plant growth and biocrust-fire interactions across five North American deserts. <i>Geoderma</i> , 2021, 401, 115325.	5.1	5
130	Broader Impacts for Ecologists: Biological Soil Crust as a Model System for Education. <i>Frontiers in Microbiology</i> , 2020, 11, 577922.	3.5	4
131	Climatic Controls on Soil Carbon Accumulation and Loss in a Dryland Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	3
132	Environmental filtering controls soil biodiversity in wet tropical ecosystems. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108571.	8.8	3
133	Mapping biological soil crusts in a Hawaiian dryland. <i>International Journal of Remote Sensing</i> , 2022, 43, 484-509.	2.9	3
134	Manufacturing Simple and Inexpensive Soil Surface Temperature and Gravimetric Water Content Sensors. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2
135	8 The Response of Arid Soil Communities to Climate Change. , 2017, , 139-158.		1
136	Response to "Stochastic and deterministic interpretation of pool models". <i>Global Change Biology</i> , 2021, 27, e11-e12.	9.5	1
137	Response to "Connectivity and pore accessibility in models of soil carbon cycling". <i>Global Change Biology</i> , 2021, 27, e15-e16.	9.5	0