

Ronald Amundson

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

14,922
citations

20817

60
h-index

19190

118
g-index

141
all docs

141
docs citations

141
times ranked

16258
citing authors

#	ARTICLE	IF	CITATIONS
1	A new view of the tree of life. <i>Nature Microbiology</i> , 2016, 1, 16048.	13.3	1,823
2	Global patterns of the isotopic composition of soil and plant nitrogen. <i>Global Biogeochemical Cycles</i> , 2003, 17, .	4.9	866
3	Soil and human security in the 21st century. <i>Science</i> , 2015, 348, 1261071.	12.6	852
4	Rapid Exchange Between Soil Carbon and Atmospheric Carbon Dioxide Driven by Temperature Change. <i>Science</i> , 1996, 272, 393-396.	12.6	661
5	The Carbon Budget in Soils. <i>Annual Review of Earth and Planetary Sciences</i> , 2001, 29, 535-562.	11.0	586
6	Soil warming and organic carbon content. <i>Nature</i> , 2000, 408, 789-790.	27.8	413
7	Can C3 plants faithfully record the carbon isotopic composition of atmospheric carbon dioxide?. <i>Paleobiology</i> , 2000, 26, 137-164.	2.0	334
8	Clades of huge phages from across Earth's ecosystems. <i>Nature</i> , 2020, 578, 425-431.	27.8	331
9	Hypolithic Cyanobacteria, Dry Limit of Photosynthesis, and Microbial Ecology in the Hyperarid Atacama Desert. <i>Microbial Ecology</i> , 2006, 52, 389-398.	2.8	314
10	Comparative Effects of Isolated Trees on Their Undercanopy Environments in High- and Low-Rainfall Savannas. <i>Journal of Applied Ecology</i> , 1993, 30, 143.	4.0	295
11	The isotopic composition of soil and soil-respired CO ₂ . <i>Geoderma</i> , 1998, 82, 83-114.	5.1	288
12	Terrestrial record of methane hydrate dissociation in the Early Cretaceous. <i>Geology</i> , 2001, 29, 159.	4.4	247
13	Turnover and storage of C and N in five density fractions from California annual grassland surface soils. <i>Global Biogeochemical Cycles</i> , 2002, 16, 64-1-64-16.	4.9	238
14	Soil development along an elevational transect in the western Sierra Nevada, California. <i>Geoderma</i> , 1997, 78, 207-236.	5.1	235
15	A threshold in soil formation at Earth's arid-hyperarid transition. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5293-5322.	3.9	233
16	Radiocarbon Dating of Soil Organic Matter. <i>Quaternary Research</i> , 1996, 45, 282-288.	1.7	226
17	The critical role of climate and saprolite weathering in landscape evolution. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1507-1521.	2.5	218
18	Leaf Age as a Risk Factor in Contamination of Lettuce with <i>Escherichia coli</i> O157:H7 and <i>Salmonella enterica</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 2298-2306.	3.1	208

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19	Spatial patterns of soil organic carbon on hillslopes: Integrating geomorphic processes and the biological C cycle. <i>Geoderma</i> , 2006, 130, 47-65.	5.1	199
20	Dissolved organic carbon chemistry and dynamics in contrasting forest and grassland soils. <i>Biogeochemistry</i> , 2008, 89, 181-198.	3.5	173
21	Soil carbon sequestration is an elusive climate mitigation tool. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11652-11656.	7.1	162
22	Tooth enamel biomineralization in extant horses: implications for isotopic microsampling. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 355-365.	2.3	155
23	Dating fluvial terraces by $^{230}\text{Th}/\text{U}$ on pedogenic carbonate, Wind River Basin, Wyoming. <i>Quaternary Research</i> , 2003, 59, 139-150.	1.7	146
24	Carbon dioxide and nitrogenous gases in the soil atmosphere. <i>Journal of Geochemical Exploration</i> , 1990, 38, 13-41.	3.2	145
25	Stable Isotope Ratios of Carbon in Phytoliths as a Quantitative Method of Monitoring Vegetation and Climate Change. <i>Quaternary Research</i> , 1991, 35, 222-233.	1.7	144
26	On a State Factor Model of Ecosystems. <i>BioScience</i> , 1997, 47, 536-543.	4.9	140
27	Managing for soil carbon sequestration: Let's get realistic. <i>Global Change Biology</i> , 2019, 25, 386-389.	9.5	140
28	A multiisotope C and N modeling analysis of soil organic matter turnover and transport as a function of soil depth in a California annual grassland soil chronosequence. <i>Global Biogeochemical Cycles</i> , 2002, 16, 82-1-82-26.	4.9	131
29	Oxygen isotope fractionation effects in soil water via interaction with cations (Mg, Ca, K, Na) adsorbed to phyllosilicate clay minerals. <i>Journal of Hydrology</i> , 2014, 515, 1-9.	5.4	128
30	Quantity and Spatial Variability of Soil Carbon in the Conterminous United States. <i>Soil Science Society of America Journal</i> , 2006, 70, 590-600.	2.2	123
31	Mineral control of carbon pools in a volcanic soil horizon. <i>Geoderma</i> , 2007, 137, 477-489.	5.1	123
32	THE PLACE OF HUMANS IN THE STATE FACTOR THEORY OF ECOSYSTEMS AND THEIR SOILS. <i>Soil Science</i> , 1991, 151, 99-109.	0.9	117
33	Isotopic evidence for shifts in atmospheric circulation patterns during the late Quaternary in mid-latitude North America. <i>Geology</i> , 1996, 24, 23.	4.4	114
34	Soil N and ^{15}N variation with time in a California annual grassland ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4171-4186.	3.9	114
35	Linking soils and streams: Sources and chemistry of dissolved organic matter in a small coastal watershed. <i>Water Resources Research</i> , 2009, 45, .	4.2	114
36	Process-based model linking pocket gopher (<i>Thomomys bottae</i>) activity to sediment transport and soil thickness. <i>Geology</i> , 2005, 33, 917.	4.4	112

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37	Integration of geochemical mass balance with sediment transport to calculate rates of soil chemical weathering and transport on hillslopes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	112
38	Soil Diversity and Land Use in the United States. <i>Ecosystems</i> , 2003, 6, 470-482.	3.4	104
39	Climate-driven processes of hillslope weathering. <i>Geology</i> , 2009, 37, 975-978.	4.4	104
40	Erosion of upland hillslope soil organic carbon: Coupling field measurements with a sediment transport model. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	103
41	Spatial and temporal variations in the isotopic composition of bison tooth enamel from the Early Holocene Hudsonâ€“Meng Bone Bed, Nebraska. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 157, 79-93.	2.3	102
42	Factors and processes governing the ¹⁴ C content of carbonate in desert soils. <i>Earth and Planetary Science Letters</i> , 1994, 125, 385-405.	4.4	97
43	The effect of climate and cultivation on soil organic C and N. <i>Biogeochemistry</i> , 2004, 67, 57-72.	3.5	97
44	Hillslope soils and vegetation. <i>Geomorphology</i> , 2015, 234, 122-132.	2.6	94
45	Application of eddy covariance measurements to the temperature dependence of soil organic matter mean residence time. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	93
46	DISABILITY, HANDICAP, AND THE ENVIRONMENT. <i>Journal of Social Philosophy</i> , 1992, 23, 105-119.	0.9	92
47	Analysis of Factors Controlling Soil Carbon in the Conterminous United States. <i>Soil Science Society of America Journal</i> , 2006, 70, 601-612.	2.2	92
48	The sensitivity of hillslope bedrock erosion to precipitation. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 117-135.	2.5	89
49	Geomorphologic evidence for the late Pliocene onset of hyperaridity in the Atacama Desert. <i>Bulletin of the Geological Society of America</i> , 2012, 124, 1048-1070.	3.3	89
50	Pedodiversity in the United States of America. <i>Geoderma</i> , 2003, 117, 99-115.	5.1	88
51	Relationship Between Climate and Vegetation and the Stable Carbon Isotope Chemistry of Soils in the Eastern Mojave Desert, Nevada. <i>Quaternary Research</i> , 1988, 29, 245-254.	1.7	86
52	The impact of land use change on C turnover in soils. <i>Global Biogeochemical Cycles</i> , 1999, 13, 47-57.	4.9	83
53	A comparative study of dissolved organic carbon transport and stabilization in California forest and grassland soils. <i>Biogeochemistry</i> , 2008, 89, 309-327.	3.5	83
54	Non-biological fractionation of stable Ca isotopes in soils of the Atacama Desert, Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1096-1110.	3.9	83

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55	Effect of land use change on soil carbon in Hawaii. <i>Biogeochemistry</i> , 2003, 65, 213-232.	3.5	79
56	Isotopic analysis of tooth enamel carbonate from modern North American feral horses: implications for paleoenvironmental reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 203, 299-311.	2.3	78
57	Title is missing!. <i>Bulletin of the Geological Society of America</i> , 1996, 108, 0379.	3.3	72
58	A model for soil ^{14}C and its implications for using ^{14}C to date pedogenic carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 393-399.	3.9	71
59	Role of large-scale soil structure in organic carbon turnover: Evidence from California grassland soils. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	67
60	Seasonal and altitudinal variation in decomposition of soil organic matter inferred from radiocarbon measurements of soil CO_2 flux. <i>Global Biogeochemical Cycles</i> , 2000, 14, 199-211.	4.9	66
61	A comparison of soil climate and biological activity along an elevation gradient in the eastern Mojave Desert. <i>Oecologia</i> , 1989, 80, 395-400.	2.0	64
62	Rainfall limit of the N cycle on Earth. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	64
63	Processes controlling the oxygen isotope ratio of soil CO_2 : analytic and numerical modeling. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 799-814.	3.9	57
64	On the in situ aqueous alteration of soils on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3845-3864.	3.9	54
65	Seasonal changes in the pigments, carbohydrates and growth of red spruce as affected by exposure to ozone for two growing seasons. <i>New Phytologist</i> , 1991, 118, 127-137.	7.3	52
66	Determining Stone Tool Use: Chemical and Morphological Analyses of Residues on Experimentally Manufactured Stone Tools. <i>Journal of Archaeological Science</i> , 1997, 24, 245-250.	2.4	52
67	Chronology, stratigraphy and hydrological modelling of extensive wetlands and paleolakes in the hyperarid core of the Atacama Desert during the late quaternary. <i>Quaternary Science Reviews</i> , 2018, 197, 224-245.	3.0	52
68	A comparative study of dissolved organic carbon transport and stabilization in California forest and grassland soils. <i>Biogeochemistry</i> , 2009, 92, 41-59.	3.5	51
69	Mineralogical control of organic carbon dynamics in a volcanic ash soil on La Reunion. <i>European Journal of Soil Science</i> , 2005, 56, 050912034650042.	3.9	48
70	A mass balance analysis of podzolization: Examples from the northeastern United States. <i>Geoderma</i> , 1995, 66, 15-42.	5.1	47
71	AN ANALYTICAL APPROACH TO ECOSYSTEM BIOGEOCHEMISTRY MODELING. , 2003, 13, 649-663.		47
72	Spatial patterns and controls of soil chemical weathering rates along a transient hillslope. <i>Earth and Planetary Science Letters</i> , 2009, 288, 184-193.	4.4	47

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73	Winter desiccation and solar radiation in relation to red spruce decline in the northern Appalachians. <i>Canadian Journal of Forest Research</i> , 1991, 21, 269-272.	1.7	45
74	Influence of soils on oxygen isotope ratio of atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2001, 15, 753-759.	4.9	45
75	Stable carbon isotope composition of Poaceae pollen and its potential in paleovegetational reconstructions. <i>Review of Palaeobotany and Palynology</i> , 1997, 99, 17-24.	1.5	43
76	Rates and geochemical processes of soil and salt crust formation in Salars of the Atacama Desert, Chile. <i>Geoderma</i> , 2016, 284, 57-72.	5.1	43
77	Stomatal responsiveness to changing light intensity increases rain-use efficiency of below-crown vegetation in tropical savannas. <i>Journal of Arid Environments</i> , 1995, 29, 139-153.	2.4	41
78	The Urey Instrument: An Advanced In Situ Organic and Oxidant Detector for Mars Exploration. <i>Astrobiology</i> , 2008, 8, 583-595.	3.0	40
79	The chemistry and mineralogy of a CO ₂ -rich travertine depositing spring in the California Coast Range. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2883-2890.	3.9	39
80	Identifying sources and processes influencing nitrogen export to a small stream using dual isotopes of nitrate. <i>Water Resources Research</i> , 2013, 49, 5715-5731.	4.2	38
81	Terrestrial analogs for interpretation of infrared spectra from the Martian surface and subsurface: Sulfate, nitrate, carbonate, and phyllosilicate-bearing Atacama Desert soils. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	35
82	Methods of Separating Soil Carbon Pools Affect the Chemistry and Turnover Time of Isolated Fractions. <i>Radiocarbon</i> , 2008, 50, 83-97.	1.8	35
83	Zebra stripes in the Atacama Desert: Fossil evidence of overland flow. <i>Geomorphology</i> , 2013, 182, 157-172.	2.6	35
84	Soil evolution along an altitudinal transect in the Eastern Mojave Desert of Nevada, U.S.A.. <i>Geoderma</i> , 1989, 43, 349-371.	5.1	34
85	Potential for ¹⁴ C Dating of Biogenic Carbonate in Hackberry (<i>Celtis</i>) Endocarps. <i>Quaternary Research</i> , 1997, 47, 337-343.	1.7	34
86	Comparisons of seasonal changes in photosynthetic capacity, pigments, and carbohydrates of healthy sapling and mature red spruce and of declining and healthy red spruce. <i>Canadian Journal of Forest Research</i> , 1992, 22, 1605-1616.	1.7	33
87	THE STABLE ISOTOPE CHEMISTRY OF PEDOGENIC CARBONATE IN AN ALLUVIAL SOIL FROM THE PUNJAB, PAKISTAN. <i>Soil Science</i> , 1990, 149, 199-211.	0.9	32
88	Active erosion-deposition cycles in the hyperarid Atacama Desert of Northern Chile. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 125-133.	4.4	32
89	The relationship of precipitation seasonality to the flora and stable isotope chemistry of soils in the Vizcaño desert, Baja California, México. <i>Journal of Arid Environments</i> , 1994, 28, 265-279.	2.4	31
90	Century scale rainfall in the absolute Atacama Desert: Landscape response and implications for past and future rainfall. <i>Quaternary Science Reviews</i> , 2021, 254, 106797.	3.0	31

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91	The implications for paleodietary and paleoclimatic reconstructions of intrapopulation variability in the oxygen and carbon isotopes of teeth from modern feral horses. <i>Quaternary Research</i> , 2005, 64, 138-146.	1.7	27
92	Pedotherm carbonates reveal anomalous North American atmospheric circulation 70,000–55,000 years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 919-924.	7.1	27
93	Biom mineralization in seeds: developmental trends in isotopic signatures of hackberry. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1998, 138, 259-269.	2.3	26
94	Soil organic carbon and mineral interactions on climatically different hillslopes. <i>Geoderma</i> , 2018, 322, 71-80.	5.1	26
95	Stable Isotope Tracers and Mathematical Models in Soil Organic Matter Studies. , 2000, , 117-137.		25
96	Climate controls on spatial and temporal variations in the formation of pedogenic carbonate in the western Great Basin of North America. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1095-1104.	3.3	25
97	E. W. Hilgard and John Wesley Powell: Efforts for a Joint Agricultural and Geological Survey. <i>Soil Science Society of America Journal</i> , 1995, 59, 4-13.	2.2	24
98	Decoupling of sulfur and nitrogen cycling due to biotic processes in a tropical rainforest. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 411-428.	3.9	24
99	Surface materials and landforms as controls on InSAR permanent and transient responses to precipitation events in a hyperarid desert, Chile. <i>Remote Sensing of Environment</i> , 2020, 237, 111544.	11.0	23
100	Moderate water stress alters carbohydrate content and cold tolerance of red spruce foliage. <i>Environmental and Experimental Botany</i> , 1993, 33, 383-390.	4.2	22
101	Paleoclimatic Reconstruction Using the Correlation in $\delta^{18}O$ of Hackberry Carbonate and Environmental Water, North America. <i>Quaternary Research</i> , 2001, 56, 252-263.	1.7	22
102	The stable isotope composition of halite and sulfate of hyperarid soils and its relation to aqueous transport. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 271-286.	3.9	22
103	Trace Metal Geochemistry in Spodosols of the Northeastern United States. <i>Journal of Environmental Quality</i> , 1997, 26, 511-521.	2.0	21
104	Taxonomic Structure, Distribution, and Abundance of the Soils in the USA. <i>Soil Science Society of America Journal</i> , 2003, 67, 1507-1516.	2.2	19
105	Hyperarid Soils and the Soil Taxonomy. <i>Soil Science Society of America Journal</i> , 2014, 78, 1845-1851.	2.2	18
106	Early to Middle Miocene climate in the Atacama Desert of Northern Chile. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 890-900.	2.3	18
107	Factors of soil formation in the 21st century. <i>Geoderma</i> , 2021, 391, 114960.	5.1	18
108	Stable Isotope Dietary Analysis of Bison Bone Samples from the Hudson-Meng Bonebed: Effects of Paleotopography. <i>Journal of Archaeological Science</i> , 1998, 25, 465-475.	2.4	17

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109	A view of extraterrestrial soils. <i>European Journal of Soil Science</i> , 2009, 60, 1078-1092.	3.9	15
110	Soil Carbon Dioxide Production and Climatic Sensitivity in Contrasting California Ecosystems. <i>Soil Science Society of America Journal</i> , 2010, 74, 1356-1366.	2.2	15
111	Response of sugar maple to multiple year exposures to ozone and simulated acidic precipitation. <i>Environmental Pollution</i> , 1996, 92, 119-126.	7.5	14
112	The Intellectual Background for the Factors of Soil Formation. <i>SSSA Special Publication Series</i> , 0, , 1-13.	0.2	14
113	Annual cycles of physical and biological properties in an uncultivated and an irrigated soil in the San Joaquin Valley of California. <i>Agriculture, Ecosystems and Environment</i> , 1988, 20, 195-208.	5.3	13
114	Physiological response to controlled freezing of attached red spruce branches. <i>Environmental and Experimental Botany</i> , 1993, 33, 591-609.	4.2	13
115	Relict soil evidence for profound quaternary aridification of the Atacama Desert, Chile. <i>Geoderma</i> , 2016, 267, 196-206.	5.1	13
116	CHANGES IN THE CHEMICAL AND PHYSICAL PROPERTIES OF A RECLAIMED SALINE-SODIC SOIL IN THE SAN JOAQUIN VALLEY OF CALIFORNIA. <i>Soil Science</i> , 1985, 140, 213-222.	0.9	12
117	Calcic soils as indicators of profound Quaternary climate change in eastern Isfahan, Iran. <i>Geoderma</i> , 2018, 315, 220-230.	5.1	12
118	Meteoric water alteration of soil and landscapes at Meridiani Planum, Mars. <i>Earth and Planetary Science Letters</i> , 2018, 488, 155-167.	4.4	12
119	Processes controlling the ¹⁴ C content of soil carbon dioxide: Model development. <i>Chemical Geology</i> , 1993, 107, 225-226.	3.3	11
120	The policy challenges to managing global soil resources. <i>Geoderma</i> , 2020, 379, 114639.	5.1	11
121	Soil biogeochemistry and the global agricultural footprint. <i>Soil Security</i> , 2022, 6, 100022.	2.3	11
122	Greenhouse gas fluxes from Atacama Desert soils: a test of biogeochemical potential at the Earth's arid extreme. <i>Biogeochemistry</i> , 2012, 111, 303-315.	3.5	9
123	A late Quaternary paleoenvironmental record in sand dunes of the northern Atacama Desert, Chile. <i>Quaternary Research</i> , 2018, 90, 127-138.	1.7	9
124	Rare calcium chloride-rich soil and implications for the existence of liquid water in a hyperarid environment. <i>Geology</i> , 2019, 47, 163-166.	4.4	9
125	ORIENTATION OF CARBONATE LAMINATIONS IN GRAVELLY SOILS ALONG A WINTER/SUMMER PRECIPITATION GRADIENT IN BAJA CALIFORNIA, MEXICO. <i>Soil Science</i> , 1997, 162, 940-952.	0.9	9
126	Factors Controlling Ecosystem Structure and Function. <i>SSSA Special Publication Series</i> , 2015, , 87-97.	0.2	7

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127	Greenhouse Gas Production and Transport in Desert Soils of the Southwestern United States. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1703-1717.	4.9	7
128	Kiss the ground (and make a wish): soil science and hollywood. <i>Biogeochemistry</i> , 2022, 157, 127-130.	3.5	7
129	Reply to Loisel et al.: Soil in climate mitigation and adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10213-10213.	7.1	4
130	Whose Security is Important? Communicating Environmental Risk About Soil to a Diverse Audience. <i>Progress in Soil Science</i> , 2017, , 383-387.	0.8	4
131	Towards the quantitative modeling of pedogenesis - a review - Comment. <i>Geoderma</i> , 1994, 63, 299-302.	5.1	3
132	Using LIDAR to model Mima mound evolution and regional energy balances in the Great Central Valley, California. , 2012, , .		3
133	Element distribution in red spruce (<i>Picea rubens</i>) fine roots; evidence for aluminium toxicity at Whiteface Mountain: Discussion. <i>Canadian Journal of Forest Research</i> , 1993, 23, 1732-1733.	1.7	2
134	Stable isotope geochemistry of pedogenic carbonates in calcareous materials, Iran: a review and synthesis. <i>Geological Society Special Publication</i> , 2021, 507, 255-272.	1.3	2
135	The Pandora's box of soil carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201077119.	7.1	2
136	Negative emissions in agriculture are improbable in the near future. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118142119.	7.1	1
137	Bridging the divide: Soil resources and the geosciences on a cultivated planet. , 2013, , .		0
138	Stable nitrogen and oxygen isotope fractionation during precipitation of nitrate salt from saturated solutions. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8905.	1.5	0