Stephen T Jackson

List of Publications by Year
in descending order

152 papers	19,379 citations	17440 63 h-index	11607 135 g-index
159 all docs	159 docs citations	159 times ranked	20977 citing authors

#	Article	IF	Citations
1	Beyond Predictions: Biodiversity Conservation in a Changing Climate. Science, 2011, 332, 53-58.	12.6	1,510
2	Novel climates, no-analog communities, and ecological surprises. Frontiers in Ecology and the Environment, 2007, 5, 475-482.	4.0	1,317
3	Projected distributions of novel and disappearing climates by 2100 AD. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5738-5742.	7.1	1,061
4	Scaling environmental change through the communityâ€level: a traitâ€based responseâ€andâ€effect framework for plants. Global Change Biology, 2008, 14, 1125-1140.	9.5	981
5	Reid's Paradox of Rapid Plant Migration. BioScience, 1998, 48, 13-24.	4.9	646
6	Balancing biodiversity in a changing environment: extinction debt, immigration credit and species turnover. Trends in Ecology and Evolution, 2010, 25, 153-160.	8.7	560
7	Space can substitute for time in predicting climate-change effects on biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9374-9379.	7.1	551
8	Responses of plant populations and communities to environmental changes of the late Quaternary. Paleobiology, 2000, 26, 194-220.	2.0	537
9	Ecological Restoration in the Light of Ecological History. Science, 2009, 325, 567-569.	12.6	492
10	Pleistocene Megafaunal Collapse, Novel Plant Communities, and Enhanced Fire Regimes in North America. Science, 2009, 326, 1100-1103.	12.6	458
11	Ecology and the ratchet of events: Climate variability, niche dimensions, and species distributions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19685-19692.	7.1	436
12	The impacts of increasing drought on forest dynamics, structure, and biodiversity in the United States. Global Change Biology, 2016, 22, 2329-2352.	9.5	428
13	MODERN ANALOGS IN QUATERNARY PALEOECOLOGY: Here Today, Gone Yesterday, Gone Tomorrow?. Annual Review of Earth and Planetary Sciences, 2004, 32, 495-537.	11.0	418
14	Managing the whole landscape: historical, hybrid, and novel ecosystems. Frontiers in Ecology and the Environment, 2014, 12, 557-564.	4.0	378
15	Managing Climate Change Refugia for Climate Adaptation. PLoS ONE, 2016, 11, e0159909.	2.5	324
16	A severe centennial-scale drought in midcontinental North America 4200 years ago and apparent global linkages. Holocene, 2005, 15, 321-328.	1.7	318
17	Past and future global transformation of terrestrial ecosystems under climate change. Science, 2018, 361, 920-923.	12.6	307
18	The changing role of history in restoration ecology. Frontiers in Ecology and the Environment, 2014, 12, 499-506.	4.0	299

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19	Vegetation and environment in Eastern North America during the Last Glacial Maximum. Quaternary Science Reviews, 2000, 19, 489-508.	3.0	283
20	Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. Science, 2017, 355, .	12.6	260
21	Climate-related changes in peatland carbon accumulation during the last millennium. Biogeosciences, 2013, 10, 929-944.	3.3	257
22	Pollen dispersal models in Quaternary plant ecology: Assumptions, parameters, and prescriptions. Botanical Review, The, 1999, 65, 39-75.	3.9	253
23	Mapped plant-macrofossil and pollen records of late quaternary vegetation change in Eastern North America. Quaternary Science Reviews, 1997, 16, 1-70.	3.0	230
24	Responses of plant populations and communities to environmental changes of the late Quaternary. Paleobiology, 2000, 26, 194-220.	2.0	227
25	Foundations of translational ecology. Frontiers in Ecology and the Environment, 2017, 15, 541-550.	4.0	212
26	The Neotoma Paleoecology Database, a multiproxy, international, community-curated data resource. Quaternary Research, 2018, 89, 156-177.	1.7	210
27	Conservation Paleobiology: Leveraging Knowledge of the Past to Inform Conservation and Restoration. Annual Review of Earth and Planetary Sciences, 2015, 43, 79-103.	11.0	197
28	Pollen source area and representation in small lakes of the northeastern United States. Review of Palaeobotany and Palynology, 1990, 63, 53-76.	1.5	190
29	Paleohydrologic reconstruction based on n-alkane distributions in ombrotrophic peat. Organic Geochemistry, 2006, 37, 1505-1513.	1.8	190
30	The climatic impacts of land surface change and carbon management, and the implications for climate-change mitigation policy. Climate Policy, 2003, 3, 149-157.	5.1	177
31	Late Quaternary extinction of a tree species in eastern North America. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13847-13852.	7.1	174
32	Community ecology in a changing environment: Perspectives from the Quaternary. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4915-4921.	7.1	139
33	Ancient DNA from lake sediments: Bridging the gap between paleoecology and genetics. BMC Evolutionary Biology, 2011, 11, 30.	3.2	126
34	ROLE OF MULTIDECADAL CLIMATE VARIABILITY IN A RANGE EXTENSION OF PINYON PINE. Ecology, 2006, 87, 1124-1130.	3.2	125
35	Widespread drought episodes in the western Great Lakes region during the past 2000 years: Geographic extent and potential mechanisms. Earth and Planetary Science Letters, 2006, 242, 415-427.	4.4	123
36	Climatic and megaherbivory controls on late-glacial vegetation dynamics: a new, high-resolution, multi-proxy record from Silver Lake, Ohio. Quaternary Science Reviews, 2012, 34, 66-80.	3.0	123

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37	A high-resolution record of late-Holocene moisture variability from a Michigan raised bog, USA. Holocene, 2003, 13, 863-876.	1.7	122
38	Cracking the Code of Biodiversity Responses to Past Climate Change. Trends in Ecology and Evolution, 2018, 33, 765-776.	8.7	119
39	Patterns and sources of multidecadal oscillations in drought-sensitive tree-ring records from the central and southern Rocky Mountains. Geophysical Research Letters, 2003, 30, .	4.0	116
40	Climatic determinism in phytogeographic regionalization: A test from the Irano-Turanian region, SW and Central Asia. Flora: Morphology, Distribution, Functional Ecology of Plants, 2012, 207, 237-249.	1.2	113
41	Quantitative representation of local forest composition in forestâ€floor pollen assemblages. Journal of Ecology, 1998, 86, 474-490.	4.0	103
42	Using paleo-archives to safeguard biodiversity under climate change. Science, 2020, 369, .	12.6	98
43	Pollen and spores in Quaternary lake sediments as sensors of vegetation composition: theoretical models and empirical evidence. , 1994, , 253-286.		97
44	Paleoecoinformatics: applying geohistorical data to ecological questions. Trends in Ecology and Evolution, 2012, 27, 104-112.	8.7	96
45	Climate remains an important driver of postâ€European vegetation change in the eastern United States. Global Change Biology, 2015, 21, 2105-2110.	9.5	96
46	INFLUENCE OF LANDSCAPE STRUCTURE AND CLIMATE VARIABILITY ON A LATE HOLOCENE PLANT MIGRATION. Ecological Monographs, 2003, 73, 567-583.	5.4	95
47	Holocene Vegetation Patterns in the Adirondack Mountains. Ecology, 1991, 72, 641-653.	3.2	93
48	Ecological implications of Cousinia Cass. (Asteraceae) persistence through the last two glacialâ€“interglacial cycles in the continental Middle East for the Irano-Turanian flora. Review of Palaeobotany and Palynology, 2012, 172, 10-20.	1.5	92
49	Late Glacial and Holocene vegetation history and paleoclimate of the Kaibab Plateau, Arizona. Palaeogeography, Palaeoclimatology, Palaeoecology, 1999, 153, 179-201.	2.3	89
50	Paleoecology and high-resolution paleohydrology of a kettle peatland in upper Michigan. Quaternary Research, 2004, 61, 1-13.	1.7	86
51	Human Impacts in Pine Forests: Past, Present, and Future. Annual Review of Ecology, Evolution, and Systematics, 2007, 38, 275-297.	8.3	85
52	A Paleoecological Test of a Classical Hydrosere in the Lake Michigan Dunes. Ecology, 1988, 69, 928-936.	3.2	81
53	Impacts of climate change on species, populations and communities: palaeobiogeographical insights and frontiers. Progress in Physical Geography, 2008, 32, 139-172.	3.2	81
54	The Precision Problem in Conservation and Restoration. Trends in Ecology and Evolution, 2016, 31, 820-830.	8.7	81

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55	The IPBES Global Assessment: Pathways to Action. Trends in Ecology and Evolution, 2020, 35, 407-414.	8.7	77
56	Managing for RADical ecosystem change: applying the Resistâ€Acceptâ€Direct (RAD) framework. Frontiers in Ecology and the Environment, 2021, 19, 461-469.	4.0	77
57	A methodological framework for assessing and reducing temporal uncertainty in paleovegetation mapping from late-Quaternary pollen records. Quaternary Science Reviews, 2011, 30, 1926-1939.	3.0	76
58	Responding to Ecosystem Transformation: Resist, Accept, or Direct?. Fisheries, 2021, 46, 8-21.	0.8	73
59	Deposition times in the northeastern United States during the Holocene: establishing valid priors for Bayesian age models. Quaternary Science Reviews, 2012, 48, 54-60.	3.0	71
60	Government: Plan for ecosystem services. Science, 2016, 351, 1037-1037.	12.6	71
61	Using Forest Patchiness to Determine Pollen Source Areas of Closed-Canopy Pollen Assemblages. Journal of Ecology, 1994, 82, 88.	4.0	70
62	Representation of flora and vegetation in Quaternary fossil assemblages: known and unknown knowns and unknowns. Quaternary Science Reviews, 2012, 49, 1-15.	3.0	68
63	Multiâ€decadal drought and amplified moisture variability drove rapid forest community change in a humid region. Ecology, 2012, 93, 219-226.	3.2	68
64	Differential hydrogen isotopic ratios of Sphagnum and vascular plant biomarkers in ombrotrophic peatlands as a quantitative proxy for precipitationâ€"evaporation balance. Geochimica Et Cosmochimica Acta, 2010, 74, 1407-1416.	3.9	66
65	Vegetation, environment, and time: The origination and termination of ecosystems. Journal of Vegetation Science, 2006, 17, 549-557.	2.2	65
66	TREE-RING BASED RECONSTRUCTIONS OF INTERANNUAL TO DECADAL SCALE PRECIPITATION VARIABILITY FOR NORTHEASTERN UTAH SINCE 1226 A.D.. Journal of the American Water Resources Association, 2004, 40, 947-960.	2.4	60
67	Developing an Integrated History and future of People on Earth (IHOPE). Current Opinion in Environmental Sustainability, 2012, 4, 106-114.	6.3	59
68	Toward an Integrated History to Guide the Future. Ecology and Society, 2011, 16, .	2.3	58
69	Paleoecology of a Northern Michigan Lake and the Relationship among Climate, Vegetation, and Great Lakes Water Levels. Quaternary Research, 2002, 57, 120-130.	1.7	55
70	Tree-Ring-Based Reconstruction of Precipitation in the Bighorn Basin, Wyoming, since 1260<scp>a.d</scp>. Journal of Climate, 2004, 17, 3855-3865.	3.2	54
71	A 40,000-year woodrat-midden record of vegetational and biogeographical dynamics in north-eastern Utah, USA. Journal of Biogeography, 2005, 32, 1085-1106.	3.0	54
72	Movers and Stayers: Novel Assemblages in Changing Environments. Trends in Ecology and Evolution, 2018, 33, 116-128.	8.7	52

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73	Natural, potential and actual vegetation in <scp>N</scp>orth <scp>A</scp>merica. Journal of Vegetation Science, 2013, 24, 772-776.	2.2	50
74	Developing a translational ecology workforce. Frontiers in Ecology and the Environment, 2017, 15, 587-596.	4.0	50
75	Differentiating Climatic and Successional Influences on Long-Term Development of a Marsh. Ecology, 1996, 77, 1765-1778.	3.2	49
76	Quantifying pollen-vegetation relationships to reconstruct ancient forests using 19th-century forest composition and pollen data. Quaternary Science Reviews, 2016, 137, 156-175.	3.0	49
77	Novel and Lost Forests in the Upper Midwestern United States, from New Estimates of Settlement-Era Composition, Stem Density, and Biomass. PLoS ONE, 2016, 11, e0151935.	2.5	48
78	The first 100 years of pollen analysis. Nature Plants, 2017, 3, .	9.3	47
79	Contributions of longâ€distance dispersal to population growth in colonising Pinus ponderosa populations. Ecology Letters, 2013, 16, 380-389.	6.4	46
80	Late-glacial and Holocene acidity changes in Adirondack (N.Y.) Lakes. , 1986, , 251-274.		46
81	The role of Late Holocene climate variability in the expansion of yellow birch in the western Great Lakes region. Diversity and Distributions, 2002, 8, 275-284.	4.1	44
82	Vegetation history since the last glacial maximum in the Ozark highlands (USA): A new record from Cupola Pond, Missouri. Quaternary Science Reviews, 2017, 170, 174-187.	3.0	44
83	Making a stand: five centuries of population growth in colonizing populations ofPinus ponderosa. Ecology, 2012, 93, 1071-1081.	3.2	43
84	Species differentiation of North American spruce (Picea) based on morphological and anatomical characteristics of needles. Canadian Journal of Botany, 2000, 78, 1367-1383.	1.1	41
85	Decomposing the midâ€Holocene Tsuga decline in eastern North America. Ecology, 2012, 93, 1841-1852.	3.2	40
86	CRITICAL ISSUES OF SCALE IN PALEOECOLOGY. Palaios, 2009, 24, 1-4.	1.3	39
87	Late Wisconsinan Vegetation and Environment of the Tunica Hills Region, Louisiana/Mississippi. Quaternary Research, 1994, 41, 316-325.	1.7	38
88	Palynological and AVHRR observations of modern vegetational gradients in eastern North America. Holocene, 2003, 13, 485-497.	1.7	38
89	Looking forward from the past: history, ecology, and conservation. Frontiers in Ecology and the Environment, 2007, 5, 455-455.	4.0	38
90	Pollen representation of vegetational patterns along an elevational gradient. Journal of Vegetation Science, 1991, 2, 613-624.	2.2	37

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91	The climatic impacts of land surface change and carbon management, and the implications for climate-change mitigation policy. Climate Policy, 2003, 3, 149-157.	5.1	36
92	Alexander von Humboldt and the General Physics of the Earth. Science, 2009, 324, 596-597.	12.6	36
93	Engaging with novel ecosystems. Frontiers in Ecology and the Environment, 2011, 9, 423-423.	4.0	35
94	Transformational ecology and climate change. Science, 2021, 373, 1085-1086.	12.6	35
95	Vegetation history in central Kentucky and Tennessee (USA) during the last glacial and deglacial periods. Quaternary Research, 2012, 79, 189-198.	1.7	33
96	Temperature variations in the southern Great Lakes during the last deglaciation: Comparison between pollen and GDGT proxies. Quaternary Science Reviews, 2018, 182, 78-92.	3.0	32
97	Classification tree and minimum-volume ellipsoid analyses of the distribution of ponderosa pine in the western USA. Journal of Biogeography, 2006, 33, 342-360.	3.0	30
98	Climatic history of the northeastern United States during the past 3000 years. Climate of the Past, 2017, 13, 1355-1379.	3.4	29
99	Exploration and calibration of pollen/vegetation relationships: a PC program for the extended R-value models. Review of Palaeobotany and Palynology, 1995, 84, 365-374.	1.5	28
100	Ecological stability in a changing world? Reassessment of the palaeoenvironmental history of CuatrociÃ©negas, Mexico. Journal of Biogeography, 2008, 35, 188-190.	3.0	28
101	Holocene Vegetation and Climate History of the Northern Bighorn Basin, Southern Montana. Quaternary Research, 2002, 58, 171-181.	1.7	27
102	Late-Glacial Vegetation Associated with Caribou and Mastodon in Central Indiana. Quaternary Research, 1982, 17, 241-257.	1.7	26
103	The Burramys Project: a conservationist's reach should exceed history's grasp, or what is the fossil record for?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190221.	4.0	26
104	Pollen dispersal and representation on an isolated, forested plateau*. New Phytologist, 1994, 128, 181-193.	7.3	25
105	The effects of anthropogenic land cover change on pollen-vegetation relationships in the American Midwest. Anthropocene, 2016, 15, 60-71.	3.3	25
106	Development of genetic diversity, differentiation and structure over 500Âyears in four ponderosa pine populations. Molecular Ecology, 2013, 22, 2640-2652.	3.9	24
107	Inferring local to regional changes in forest composition from Holocene macrofossils and pollen of a small lake in central Upper Michigan. Quaternary Science Reviews, 2014, 98, 60-73.	3.0	24
108	Are conservation organizations configured for effective adaptation to global change?. Frontiers in Ecology and the Environment, 2015, 13, 163-169.	4.0	24

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109	Validating the use of woodrat (Neotoma) middens for documenting natural invasions. Journal of Biogeography, 2004, 31, 333-342.	3.0	22
110	Documenting Natural and Human-Caused Plant Invasions Using Paleoecological Methods. Springer Series on Environmental Management, 1997, , 37-55.	0.3	21
111	Novel climates, no-analog communities, and ecological surprises. Frontiers in Ecology and the Environment, 2007, 5, 475-482.	4.0	21
112	Pollen and Macrofossils from Wisconsinan Interstadial Sediments in Northeastern Georgia. Quaternary Research, 1993, 39, 99-106.	1.7	20
113	Forest genetics in space and time. New Phytologist, 2006, 171, 1-3.	7.3	20
114	Pollen dispersal and representation on an offshore island. New Phytologist, 1992, 122, 187-202.	7.3	18
115	Temporal density of pollen sampling affects age determination of the mid-Holocene hemlock (Tsuga) decline. Quaternary Science Reviews, 2012, 45, 54-59.	3.0	18
116	Species differentiation of North American spruce (Picea) based on morphological and anatomical characteristics of needles. Canadian Journal of Botany, 2000, 78, 1367-1383.	1.1	17
117	Vegetation type conversion in the US Southwest: frontline observations and management responses. Fire Ecology, 2022, 18, .	3.0	17
118	Late-Glacial and Early Holocene Vegetational History at the Kolarik Mastodon Site, Northwestern Indiana. American Midland Naturalist, 1986, 115, 361.	0.4	16
119	Summary of the Snowmastodon Project Special VolumeA high-elevation, multi-proxy biotic and environmental record of MIS 6â€“4 from the Ziegler Reservoir fossil site, Snowmass Village, Colorado, USA. Quaternary Research, 2014, 82, 618-634.	1.7	16
120	Toward a national, sustained U.S. ecosystem assessment. Science, 2016, 354, 838-839.	12.6	15
121	Quantifying trends and uncertainty in prehistoric forest composition in the upper Midwestern United States. Ecology, 2019, 100, e02856.	3.2	14
122	Spatial Fingerprint of Younger Dryas Cooling and Warming in Eastern North America. Geophysical Research Letters, 2020, 47, e2020GL090031.	4.0	14
123	Persistence and expansion of ponderosa pine woodlands in the westâ€central Great Plains during the past two centuries. Journal of Biogeography, 2010, 37, 1668-1683.	3.0	13
124	Reliability of macrofossils in woodrat (Neotoma) middens for detecting low-density tree populations. Paleobiology, 2011, 37, 603-615.	2.0	13
125	Late Holocene expansion of ponderosa pine (Pinus ponderosa) in the Central Rocky Mountains, <scp>USA</scp>. Journal of Biogeography, 2016, 43, 778-790.	3.0	12
126	Late Quaternary vegetation, climate, and fire history of the Southeast Atlantic Coastal Plain based on a 30,000-yr multi-proxy record from White Pond, South Carolina, USA. Quaternary Research, 2019, 91, 861-880.	1.7	12

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127	Biogeography of Pleistocene conifer species from the Ziegler Reservoir fossil site, Snowmass Village, Colorado. Quaternary Research, 2014, 82, 567-574.	1.7	11
128	Response of arboreal pollen abundance to late-Holocene drought events in the Upper Midwest, USA. Holocene, 2012, 22, 531-539.	1.7	10
129	Deglacial temperature controls on no-analog community establishment in the Great Lakes Region. Quaternary Science Reviews, 2020, 234, 106245.	3.0	10
130	Paleoecology of a Fossil Plant Assemblage from a Pre-Wisconsinan Till in Southern Illinois. American Midland Naturalist, 1983, 109, 120.	0.4	9
131	Toward an effective practice of translational ecology. Frontiers in Ecology and the Environment, 2017, 15, 540-540.	4.0	9
132	Comparison of settlement-era vegetation reconstructions for STEPPS and REVEALS pollenâ€“vegetation models in the northeastern United States. Quaternary Research, 2020, 95, 23-42.	1.7	8
133	Accelerator Radiocarbon Date Indicates Mid-Holocene age for Hickory Nut from Indiana Late-Glacial Sediments. Quaternary Research, 1986, 25, 257-258.	1.7	7
134	Out of the Garden and into the Cooler? A Quaternary Perspective on Deep-Time Paleoecology. The Paleontological Society Papers, 2000, 6, 287-308.	0.6	7
135	Identifying the pollen of an extinct spruce species in the Late Quaternary sediments of the Tunica Hills region, southâ€eastern United States. Journal of Quaternary Science, 2014, 29, 711-721.	2.1	7
136	Forest responses to lastâ€millennium hydroclimate variability are governed by spatial variations in ecosystem sensitivity. Ecology Letters, 2021, 24, 498-508.	6.4	7
137	8000-year doubling of Midwestern forest biomass driven by population- and biome-scale processes. Science, 2022, 376, 1491-1495.	12.6	7
138	Humboldt for the Anthropocene. Science, 2019, 365, 1074-1076.	12.6	6
139	A New Approach to Evaluate and Reduce Uncertainty of Model-Based Biodiversity Projections for Conservation Policy Formulation. BioScience, 2021, 71, 1261-1273.	4.9	6
140	History of aPinus strobus-dominated stand in northern New York. Journal of Vegetation Science, 1997, 8, 425-436.	2.2	5
141	Comparing and improving methods for reconstructing peatland water-table depth from testate amoebae. Holocene, 2019, 29, 1350-1361.	1.7	5
142	More than one way to kill a spruce forest: The role of fire and climate in the lateâ€glacial termination of spruce woodlands across the southern Great Lakes. Journal of Ecology, 2021, 109, 459-477.	4.0	4
143	Assessing antiquity and turnover of terrestrial ecosystems in eastern North America using fossil pollen data: A preliminary study. IOP Conference Series: Earth and Environmental Science, 2010, 9, 012005.	0.3	3
144	Reinventing conservation - again. Frontiers in Ecology and the Environment, 2016, 14, 519-519.	4.0	3

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145	Estimation of pollen productivity and dispersal: How pollen assemblages in small lakes represent vegetation. Ecological Monographs, 2022, 92, .	5.4	3
146	Response to â€˜Biodiversity â€œsurplusesâ€•and â€œdeficitsâ€•are not novel issuesâ€™: We agree. Trends in Ecology and Evolution, 2010, 25, 621-622.	8.7	2
147	Modern pollenâ€assemblage data from small lakes paired with local forestâ€composition data in northeastern United States. Ecology, 2019, 100, e02784.	3.2	1
148	Waveâ€flattening and translational science. Frontiers in Ecology and the Environment, 2020, 18, 227-227.	4.0	1
149	Provenance of invaders has scale-dependent impacts in a changing wetland ecosystem. NeoBiota, 0, 40, 51-72.	1.0	1
150	Walking through time in the Lake Michigan dunes. Frontiers in Ecology and the Environment, 2011, 9, 526-527.	4.0	0
151	Going where the science matters. Science, 2015, 350, 594-594.	12.6	0
152	Resolution of Respect. Bulletin of the Ecological Society of America, 2018, 99, e01441.	0.2	0