

Tim R Seastedt

List of Publications by Year in descending order

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137
papers

9,433
citations

41344

49
h-index

40979

93
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143
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143
docs citations

143
times ranked

8704
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Microarthropods in Decomposition and Mineralization Processes. <i>Annual Review of Entomology</i> , 1984, 29, 25-46.	11.8	892
2	Detritus Accumulation Limits Productivity of Tallgrass Prairie. <i>BioScience</i> , 1986, 36, 662-668.	4.9	592
3	Management of novel ecosystems: are novel approaches required?. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 547-553.	4.0	432
4	Managing the whole landscape: historical, hybrid, and novel ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 557-564.	4.0	378
5	Directing Research to Reduce the Impacts of Nonindigenous Species. <i>Conservation Biology</i> , 2002, 16, 630-640.	4.7	372
6	SOIL FAUNA AND PLANT LITTER DECOMPOSITION IN TROPICAL AND SUBALPINE FORESTS. <i>Ecology</i> , 2001, 82, 955-964.	3.2	259
7	Long-term experimental manipulation of winter snow regime and summer temperature in arctic and alpine tundra. <i>Hydrological Processes</i> , 1999, 13, 2315-2330.	2.6	232
8	The US Long Term Ecological Research Program. <i>BioScience</i> , 2003, 53, 21.	4.9	231
9	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. <i>Ecology</i> , 1998, 79, 2253-2266.	3.2	229
10	RELATIONSHIPS AT THE ABOVEGROUND–BELOWGROUND INTERFACE: PLANTS, SOIL BIOTA, AND SOIL PROCESSES. <i>Ecological Monographs</i> , 2003, 73, 377-395.	5.4	229
11	Controls of nitrogen limitation in tallgrass prairie. <i>Oecologia</i> , 1991, 87, 72-79.	2.0	212
12	The Influence of Arthropods on Ecosystems. <i>BioScience</i> , 1984, 34, 157-161.	4.9	193
13	Physiological Interactions Along Resource Gradients in a Tallgrass Prairie. <i>Ecology</i> , 1991, 72, 672-684.	3.2	193
14	Consequences of Nonequilibrium Resource Availability Across Multiple Time Scales: The Transient Maxima Hypothesis. <i>American Naturalist</i> , 1993, 141, 621-633.	2.1	180
15	Exceptions to the AET Model: Deserts and Clear-Cut Forest. <i>Ecology</i> , 1981, 62, 275-277.	3.2	153
16	Effects of Soil Nitrogen Reduction on Nonnative Plants in Restored Grasslands. <i>Restoration Ecology</i> , 1999, 7, 51-55.	2.9	151
17	Topographic controls on snow distribution, soil moisture, and species diversity of herbaceous alpine vegetation, Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	139
18	Competitive impacts and responses of an invasive weed: dependencies on nitrogen and phosphorus availability. <i>Oecologia</i> , 2004, 141, 526-535.	2.0	136

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19	Landscape Patterns in Soil-Plant Water Relations and Primary Production in Tallgrass Prairie. <i>Ecology</i> , 1993, 74, 549-560.	3.2	125
20	Allelopathy and plant invasions: traditional, congeneric, and bio-geographical approaches. <i>Biological Invasions</i> , 2008, 10, 875-890.	2.4	125
21	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
22	Past, Present, and Future Roles of Long-Term Experiments in the LTER Network. <i>BioScience</i> , 2012, 62, 377-389.	4.9	116
23	The Decoupling of Terrestrial Carbon and Nitrogen Cycles. <i>BioScience</i> , 1997, 47, 226-234.	4.9	114
24	Microarthropod Response Following Cable Logging and Clear-Cutting in the Southern Appalachians. <i>Ecology</i> , 1981, 62, 126-135.	3.2	107
25	The Landscape Continuum: A Model for High-Elevation Ecosystems. <i>BioScience</i> , 2004, 54, 111.	4.9	107
26	Mass, Nitrogen, and Phosphorus Dynamics in Foliage and Root Detritus of Tallgrass Prairie. <i>Ecology</i> , 1988, 69, 59-65.	3.2	104
27	Seasonality of precipitation interacts with exotic species to alter composition and phenology of a semi-arid grassland. <i>Journal of Ecology</i> , 2014, 102, 1549-1561.	4.0	104
28	Nitrogen and Carbon Soil Dynamics in Response to Climate Change in a High-Elevation Ecosystem in the Rocky Mountains, U.S.A.. <i>Arctic and Alpine Research</i> , 1998, 30, 26.	1.3	100
29	Biological control of invasive plant species: a reassessment for the Anthropocene. <i>New Phytologist</i> , 2015, 205, 490-502.	7.3	85
30	Maximization of Primary and Secondary Productivity by Grazers. <i>American Naturalist</i> , 1985, 126, 559-564.	2.1	82
31	Changes in alpine vegetation over 21 years: Are patterns across a heterogeneous landscape consistent with predictions?. <i>Ecosphere</i> , 2013, 4, 1-18.	2.2	78
32	Finding a middle-ground: The native/non-native debate. <i>Biological Conservation</i> , 2013, 158, 55-62.	4.1	78
33	Mass loss and nitrogen dynamics of decaying litter of grasslands: the apparent low nitrogen immobilization potential of root detritus. <i>Canadian Journal of Botany</i> , 1992, 70, 384-391.	1.1	74
34	Title is missing!. , 2001, 55, 195-218.		74
35	ECOLOGICAL CONSEQUENCES OF C4GRASS INVASION OF A C4GRASSLAND: A DILEMMA FOR MANAGEMENT. , 2005, 15, 1560-1569.		74
36	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. <i>BioScience</i> , 2020, 70, 35-47.	4.9	74

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37	CentaureaSpecies: the Forb That Won the West. Conservation Biology, 2001, 15, 1568-1574.	4.7	73
38	Management Practices in Tallgrass Prairie: Large- and Small-Scale Experimental Effects on Species Composition. Journal of Applied Ecology, 1993, 30, 247.	4.0	71
39	Canopy interception of nitrogen in bulk precipitation by annually burned and unburned tallgrass prairie. Oecologia, 1985, 66, 88-92.	2.0	69
40	Plant community and soil chemistry responses to long-term nitrogen inputs drive changes in alpine bacterial communities. Ecology, 2016, 97, 1543-1554.	3.2	69
41	Long-term Agricultural Research: A Research, Education, and Extension Imperative. BioScience, 2008, 58, 640-645.	4.9	66
42	Priorities for research in soil ecology. Pedobiologia, 2017, 63, 1-7.	1.2	64
43	The Effects of Low-Level Consumption by Canopy Arthropods on the Growth and Nutrient Dynamics of Black Locust and Red Maple Trees in the Southern Appalachians. Ecology, 1983, 64, 1040-1048.	3.2	62
44	Woody overstorey effects on soil carbon and nitrogen pools in South African savanna. Austral Ecology, 2003, 28, 173-181.	1.5	58
45	Plant Species Richness, Productivity, and Nitrogen and Phosphorus Limitations across a Snowpack Gradient in Alpine Tundra, Colorado, U.S.A.. Arctic, Antarctic, and Alpine Research, 2001, 33, 100-106.	1.1	55
46	Plant Species Richness, Productivity, and Nitrogen and Phosphorus Limitations across a Snowpack Gradient in Alpine Tundra, Colorado, U.S.A.. Arctic, Antarctic, and Alpine Research, 2001, 33, 100.	1.1	55
47	Avian Territoriality: Sufficient Resources or Interference Competition. American Naturalist, 1979, 114, 308-312.	2.1	53
48	Landscape patterns of litter decomposition in alpine tundra. Oecologia, 1994, 99, 95-101.	2.0	53
49	Short- and Long-Term Patterns of Soil Moisture in Alpine Tundra. Arctic and Alpine Research, 1994, 26, 14.	1.3	51
50	Rapid soil organic matter loss from forest dieback in a subalpine coniferous ecosystem. Soil Biology and Biochemistry, 2011, 43, 2450-2456.	8.8	50
51	Analysis of litter decomposition in an alpine tundra. Canadian Journal of Botany, 1998, 76, 1295-1304.	1.1	50
52	Decomposition Rates and Nutrient Contents of Arthropod Remains in Forest Litter. Ecology, 1981, 62, 13-19.	3.2	45
53	Distinct Animal-Generated Edge Effects in a Tallgrass Prairie Community. Ecology, 1993, 74, 1281-1285.	3.2	44
54	Soil ecological interactions: comparisons between tropical and subalpine forests. Oecologia, 2001, 128, 549-556.	2.0	44

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55	EFFECTS OF MOBILE TREE ISLANDS ON ALPINE TUNDRA SOILS. <i>Ecology</i> , 2001, 82, 8-17.	3.2	43
56	Effects of management and topography on the radiometric response of a tallgrass prairie. <i>Journal of Geophysical Research</i> , 1992, 97, 18855-18866.	3.3	41
57	Effect of biocontrol insects on diffuse knapweed (<i>Centaurea diffusa</i>) in a Colorado grassland. <i>Weed Science</i> , 2003, 51, 237-245.	1.5	39
58	Nitrogen Mineralization By Native and Introduced Earthworms: Effects on Big Bluestem Growth. <i>Ecology</i> , 1986, 67, 1094-1097.	3.2	35
59	Controls of Plant and Soil Carbon in a Semihumid Temperate Grassland. , 1994, 4, 344-353.		35
60	Response of soil organic and inorganic nutrients in alpine soils to a 16-year factorial snow and N-fertilization experiment, Colorado Front Range, USA. <i>Applied Soil Ecology</i> , 2012, 62, 131-141.	4.3	34
61	Impacts of woodchip amendments and soil nutrient availability on understory vegetation establishment following thinning of a ponderosa pine forest. <i>Forest Ecology and Management</i> , 2009, 258, 263-272.	3.2	33
62	Sodium Dynamics in Forest Ecosystems and the Animal Starvation Hypothesis. <i>American Naturalist</i> , 1981, 117, 1029-1034.	2.1	32
63	Northern Pocket Gopher (<i>Thomomys talpoides</i>) Control of Alpine Plant Community Structure. <i>Arctic, Antarctic, and Alpine Research</i> , 2005, 37, 585-590.	1.1	31
64	Feces nitrogen release induced by different large herbivores in a dry grassland. <i>Ecological Applications</i> , 2018, 28, 201-211.	3.8	31
65	Abundance, Distribution, and Effects of Clearcutting on <i>Cryptostigmata</i> in the Southern Appalachians. <i>Environmental Entomology</i> , 1980, 9, 618-623.	1.4	30
66	Biotic constraints on the invasion of diffuse knapweed (<i>Centaurea diffusa</i>) in North American grasslands. <i>Oecologia</i> , 2007, 151, 626-636.	2.0	30
67	Reconciling contradictory findings of herbivore impacts on spotted knapweed (<i>Centaurea stoebe</i>) growth and reproduction. <i>Ecological Applications</i> , 2010, 20, 1903-1912.	3.8	30
68	Soil invertebrate and plant responses to mowing and carbofuran application in a North American tallgrass prairie. <i>Plant and Soil</i> , 1992, 144, 117-124.	3.7	29
69	Analysis of litter decomposition in an alpine tundra. <i>Canadian Journal of Botany</i> , 1998, 76, 1295-1304.	1.1	29
70	Landscape-level interactions between topographic features and nitrogen limitation in tallgrass prairie. <i>Landscape Ecology</i> , 1995, 10, 337-348.	4.2	27
71	Soil characteristics of Rocky Mountain National Park grasslands invaded by <i>Melilotus officinalis</i> and <i>M. alba</i> . <i>Journal of Biogeography</i> , 2004, 31, 415-424.	3.0	27
72	Patterns of snow, deposition, and soil nutrients at multiple spatial scales at a Rocky Mountain tree line ecotone. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	27

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73	Effects of plant competition, seed predation, and nutrient limitation on seedling survivorship of spotted knapweed (<i>Centaurea stoebe</i>). <i>Biological Invasions</i> , 2010, 12, 3771-3784.	2.4	26
74	Effects of precipitation change and neighboring plants on population dynamics of <i>Bromus tectorum</i> . <i>Oecologia</i> , 2015, 179, 765-775.	2.0	26
75	Earthworms, arthropods and plant litter decomposition in aspen (<i>Populus tremuloides</i>) and lodgepole pine (<i>Pinus contorta</i>) forests in Colorado, USA The 7th international symposium on earthworm ecology - Cardiff - Wales - 2002. <i>Pedobiologia</i> , 2003, 47, 863-869.	1.2	25
76	Canopy Rainfall Interception and Throughfall in Burned and Unburned Tallgrass Prairie. <i>Southwestern Naturalist</i> , 1987, 32, 267.	0.1	24
77	Effects of Mobile Tree Islands on Soil Carbon Storage in Tundra Ecosystems. <i>Ecology</i> , 1996, 77, 2563-2567.	3.2	24
78	Effects of Nutrient Manipulations and Grass Removal on Cover, Species Composition, and Invasibility of a Novel Grassland in Colorado. <i>Restoration Ecology</i> , 2009, 17, 818-826.	2.9	24
79	Spatial patterns of total and available N and P at alpine treeline. <i>Plant and Soil</i> , 2013, 365, 127-140.	3.7	24
80	Livestock grazing impacts on plateau pika (<i>Ochotona curzoniae</i>) vary by species identity. <i>Agriculture, Ecosystems and Environment</i> , 2019, 275, 23-31.	5.3	24
81	Nutrient availability does not explain invasion and dominance of a mixed grass prairie by the exotic forb <i>Centaurea diffusa</i> Lam.. <i>Applied Soil Ecology</i> , 2006, 32, 98-110.	4.3	23
82	Additive effects of aboveground and belowground herbivores on the dominance of spotted knapweed (<i>Centaurea stoebe</i>). <i>Oecologia</i> , 2010, 164, 701-712.	2.0	22
83	Biological Control Insect Use of Fertilized and Unfertilized Diffuse Knapweed in a Colorado Grassland. <i>Environmental Entomology</i> , 2005, 34, 225-234.	1.4	20
84	Plant Community Response to the Decline of Diffuse Knapweed in a Colorado Grassland. <i>Ecological Restoration</i> , 2007, 25, 169-174.	0.5	20
85	Patterns of Soil Bacterial Richness and Composition Tied to Plant Richness, Soil Nitrogen, and Soil Acidity in Alpine Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2017, 49, 441-453.	1.1	19
86	Earthworms, arthropods and plant litter decomposition in aspen (<i>Populus tremuloides</i>) and lodgepole pine (<i>Pinus contorta</i>) forests in Colorado, USA. <i>Pedobiologia</i> , 2003, 47, 863-869.	1.2	18
87	The effects of black-tailed prairie dogs on plant communities within a complex urban landscape: An ecological surprise?. <i>Ecology</i> , 2014, 95, 1349-1359.	3.2	18
88	An overview of research from a high elevation landscape: the Niwot Ridge, Colorado Long Term Ecological Research programme. <i>Plant Ecology and Diversity</i> , 2015, 8, 597-605.	2.4	18
89	Response of a mixed grass prairie to an extreme precipitation event. <i>Ecosphere</i> , 2015, 6, 1-12.	2.2	18
90	Management Practices in Tallgrass Prairie: Large- and Small-Scale Experimental Effects on Species Composition. , 1993, , 106-115.		17

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91	Biological control and precipitation effects on spotted knapweed (<i>Centaurea stoebe</i>): empirical and modeling results. <i>Ecosphere</i> , 2013, 4, 1-14.	2.2	16
92	A two-year study of leaf litter decomposition as related to macroclimatic factors and microarthropod abundance in the southern Appalachians. <i>Ecography</i> , 1983, 6, 11-16.	4.5	15
93	Traits of plant invaders. <i>Nature</i> , 2009, 459, 783-784.	27.8	15
94	Mowing Reduces Exotic Annual Grasses but Increases Exotic Forbs in a Semiarid Grassland. <i>Restoration Ecology</i> , 2014, 22, 774-781.	2.9	14
95	Climate Change, Ecosystem Processes and Biological Diversity Responses in High Elevation Communities. <i>Climate</i> , 2021, 9, 87.	2.8	14
96	The forest–alpine ecotone: a multi-scale approach to spatial and temporal dynamics of treeline change at Niwot Ridge. <i>Plant Ecology and Diversity</i> , 2015, 8, 763-779.	2.4	13
97	Postrelease Evaluation of <i>Mecinus janthinus</i> Host Specificity, a Biological Control Agent for Invasive Toadflax (<i>Linaria</i> spp.). <i>Weed Science</i> , 2007, 55, 164-168.	1.5	12
98	Regional and local patterns of soil nutrients at Rocky Mountain treelines. <i>Geoderma</i> , 2010, 160, 208-217.	5.1	12
99	Plant community response to nitrogen and phosphorus enrichment varies across an alpine tundra moisture gradient. <i>Plant Ecology and Diversity</i> , 2015, 8, 739-749.	2.4	12
100	Increased winter precipitation benefits the native plant pathogen <i>Ustilago bullata</i> that infects an invasive grass. <i>Biological Invasions</i> , 2015, 17, 3041-3047.	2.4	12
101	Microarthropods and Nematodes in Kangaroo Rat Burrows. <i>Southwestern Naturalist</i> , 1986, 31, 114.	0.1	11
102	Comparative analysis of temporal and spatial variability in above-ground production in a deciduous forest and prairie. <i>Ecography</i> , 1989, 12, 130-136.	4.5	11
103	Effects of fire on abundance of <i>Eragrostis intermedia</i> in a semi-arid grassland in southeastern Arizona. <i>Journal of Vegetation Science</i> , 1995, 6, 325-328.	2.2	11
104	The lesser of two weevils: physiological responses of spotted knapweed (<i>Centaurea stoebe</i>) to above- and belowground herbivory by <i>Larinus minutus</i> and <i>Cyphocleonus achates</i> . <i>Biocontrol Science and Technology</i> , 2011, 21, 153-170.	1.3	11
105	Top-down and bottom-up controls on Dalmatian toadflax (<i>Linaria dalmatica</i>) performance along the Colorado Front Range, USA. <i>Plant Ecology</i> , 2012, 213, 185-195.	1.6	11
106	The consequences of multiple resource shifts on the productivity and composition of alpine tundra communities: inferences from a long-term snow and nutrient manipulation experiment. <i>Plant Ecology and Diversity</i> , 2015, 8, 751-761.	2.4	11
107	Root herbivory in grassland ecosystems.. , 2008, , 54-67.		11
108	Field bioassessments for selecting test systems to evaluate military training lands in tallgrass prairie. <i>Ecosystem health. V. Environmental Management</i> , 1990, 14, 81-93.	2.7	10

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109	A Model Information Management System for Ecological Research. <i>BioScience</i> , 1997, 47, 310-316.	4.9	10
110	Nitrogen enrichment differentially affects above- and belowground plant defense. <i>American Journal of Botany</i> , 2012, 99, 1630-1637.	1.7	10
111	Imposing antecedent global change conditions rapidly alters plant community composition in a mixed-grass prairie. <i>Oecologia</i> , 2016, 182, 899-911.	2.0	10
112	Soil carbon and plant richness relationships differ among grassland types, disturbance history and plant functional groups. <i>Oecologia</i> , 2021, 196, 1153-1166.	2.0	8
113	Simulation of Carbon and Nitrogen Cycling in an Alpine Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 147-154.	1.1	7
114	Food and habitat provisions jointly determine competitive and facilitative interactions among distantly related herbivores. <i>Functional Ecology</i> , 2019, 33, 2381-2390.	3.6	7
115	Understanding invasions: the rise and fall of diffuse knapweed (<i>Centaurea diffusa</i>) in North America. , 2005, , 129-139.		6
116	Simulation of Carbon and Nitrogen Cycling in an Alpine Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 147.	1.1	5
117	Changing edaphic conditions and exploitation of an expanded phenological niche allows for increased exotic (introduced) plant species dominance. <i>Plant and Soil</i> , 2017, 415, 299-315.	3.7	5
118	Soil moisture regime and canopy closure structure subalpine understory development during the first three decades following fire. <i>Forest Ecology and Management</i> , 2021, 483, 118783.	3.2	5
119	Sustainable Control of Spotted Knapweed (<i>Centaurea stoebe</i>). , 2009, , 211-225.		5
120	Factors Affecting Spotted Knapweed (<i>Centaurea stoebe</i>) Seedling Survival Rates. <i>Invasive Plant Science and Management</i> , 2013, 6, 568-576.	1.1	4
121	Case Study: Ecosystem Transformations along the Colorado Front Range: Prairie Dog Interactions with Multiple Components of Global Environmental Change. , 2013, , 142-149.		4
122	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021, 12, e03432.	2.2	4
123	Long-term experimental manipulation of winter snow regime and summer temperature in arctic and alpine tundra. , 1999, 13, 2315.		4
124	Diets of Young Lapland Longspurs in Arctic and Subarctic Alaska. <i>Condor</i> , 1980, 82, 232.	1.6	3
125	Management of Plant Invasions: The Conflict of Perspective1. <i>Weed Technology</i> , 2004, 18, 1514-1517.	0.9	3
126	Resourceful invaders. <i>Nature</i> , 2007, 446, 985-986.	27.8	3

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127	Nutrient Status in Alpine Soils of the Colorado Front Range Using the Nitrogen/Phosphorus Ratio Index. <i>Soil Science Society of America Journal</i> , 2008, 72, 1628-1636.	2.2	3
128	Restoring Competitors and Natural Enemies for Long-Term Control of Plant Invaders. <i>Rangelands</i> , 2010, 32, 16-20.	1.9	3
129	Resilience of a novel ecosystem after the loss of a keystone species: plague epizootics and urban prairie dog management. <i>Ecosphere</i> , 2015, 6, art157.	2.2	3
130	Decadal dynamics of dry alpine meadows under nitrogen and phosphorus additions. <i>Plant Ecology</i> , 2020, 221, 647-658.	1.6	3
131	Invasive annual cheatgrass enhances the abundance of native microbial and microinvertebrate eukaryotes but reduces invasive earthworms. <i>Plant and Soil</i> , 2022, 473, 591-604.	3.7	3
132	Effects on vegetative restoration of two treatments: erosion matting and supplemental rock cover in the alpine ecosystem. <i>Restoration Ecology</i> , 2019, 27, 1339-1347.	2.9	2
133	Biological Control: Perspectives for Maintaining Provisioning Services in the Anthropocene. , 2014, , 269-280.		2
134	Biotic Interactivity between Grazers and Plants: Relationships Contributing to Atmospheric Boundary Layer Dynamics. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1247-1259.	1.7	1
135	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. , 1998, 79, 2253.		1
136	The History and Status of Ecosystem Science. <i>Ecology</i> , 1994, 75, 2466.	3.2	0
137	Biological control monitoring. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 347-347.	4.0	0