

Tim R Seastedt

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137
papers

7,753
citations

46
h-index

86
g-index

143
ext. papers

8,402
ext. citations

4.6
avg. IF

5.95
L-index

#	Paper	IF	Citations
137	The Role of Microarthropods in Decomposition and Mineralization Processes. <i>Annual Review of Entomology</i> , 1984 , 29, 25-46	21.8	743
136	Detritus Accumulation Limits Productivity of Tallgrass Prairie. <i>BioScience</i> , 1986 , 36, 662-668	5.7	540
135	Management of novel ecosystems: are novel approaches required?. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 547-553	5.5	360
134	Directing Research to Reduce the Impacts of Nonindigenous Species. <i>Conservation Biology</i> , 2002 , 16, 630-640	6	331
133	Managing the whole landscape: historical, hybrid, and novel ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 557-564	5.5	297
132	Long-term experimental manipulation of winter snow regime and summer temperature in arctic and alpine tundra. <i>Hydrological Processes</i> , 1999 , 13, 2315-2330	3.3	210
131	SOIL FAUNA AND PLANT LITTER DECOMPOSITION IN TROPICAL AND SUBALPINE FORESTS. <i>Ecology</i> , 2001 , 82, 955-964	4.6	198
130	RELATIONSHIPS AT THE ABOVEGROUND/BELOWGROUND INTERFACE: PLANTS, SOIL BIOTA, AND SOIL PROCESSES. <i>Ecological Monographs</i> , 2003 , 73, 377-395	9	197
129	Controls of nitrogen limitation in tallgrass prairie. <i>Oecologia</i> , 1991 , 87, 72-79	2.9	193
128	The US Long Term Ecological Research Program. <i>BioScience</i> , 2003 , 53, 21	5.7	191
127	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. <i>Ecology</i> , 1998 , 79, 2253-2266	4.6	185
126	Physiological Interactions Along Resource Gradients in a Tallgrass Prairie. <i>Ecology</i> , 1991 , 72, 672-684	4.6	159
125	The Influence of Arthropods on Ecosystems. <i>BioScience</i> , 1984 , 34, 157-161	5.7	158
124	Consequences of nonequilibrium resource availability across multiple time scales: the transient maxima hypothesis. <i>American Naturalist</i> , 1993 , 141, 621-33	3.7	156
123	Effects of Soil Nitrogen Reduction on Nonnative Plants in Restored Grasslands. <i>Restoration Ecology</i> , 1999 , 7, 51-55	3.1	136
122	Competitive impacts and responses of an invasive weed: dependencies on nitrogen and phosphorus availability. <i>Oecologia</i> , 2004 , 141, 526-35	2.9	122
121	Exceptions to the AET Model: Deserts and Clear-Cut Forest. <i>Ecology</i> , 1981 , 62, 275-277	4.6	118

120	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, n/a-n/a		108
119	Landscape Patterns in Soil-Plant Water Relations and Primary Production in Tallgrass Prairie. <i>Ecology</i> , 1993 , 74, 549-560	4.6	107
118	The Decoupling of Terrestrial Carbon and Nitrogen Cycles. <i>BioScience</i> , 1997 , 47, 226-234	5.7	101
117	Allelopathy and plant invasions: traditional, congeneric, and bio-geographical approaches. <i>Biological Invasions</i> , 2008 , 10, 875-890	2.7	101
116	Past, Present, and Future Roles of Long-Term Experiments in the LTER Network. <i>BioScience</i> , 2012 , 62, 377-389	5.7	97
115	The Landscape Continuum: A Model for High-Elevation Ecosystems. <i>BioScience</i> , 2004 , 54, 111	5.7	96
114	Root dynamics of tallgrass prairie in wet and dry years. <i>Canadian Journal of Botany</i> , 1987 , 65, 787-791		94
113	Phosphorus fertilization stimulates nitrogen fixation and increases inorganic nitrogen concentrations in a restored prairie. <i>Applied Soil Ecology</i> , 2007 , 36, 238-242	5	90
112	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		85
111	Microarthropod Response Following Cable Logging and Clear-Cutting in the Southern Appalachians. <i>Ecology</i> , 1981 , 62, 126-135	4.6	74
110	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	6	71
109	Mass, Nitrogen, and Phosphorus Dynamics in Foliage and Root Detritus of Tallgrass Prairie. <i>Ecology</i> , 1988 , 69, 59-65	4.6	71
108	Biological control of invasive plant species: a reassessment for the Anthropocene. <i>New Phytologist</i> , 2015 , 205, 490-502	9.8	69
107	Effects of the northern pocket gopher (<i>Thomomys talpoides</i>) on alpine soil characteristics, Niwot Ridge, CO 2001 , 55, 195-218		69
106	Management Practices in Tallgrass Prairie: Large- and Small-Scale Experimental Effects on Species Composition. <i>Journal of Applied Ecology</i> , 1993 , 30, 247	5.8	66
105	Changes in alpine vegetation over 21 years: Are patterns across a heterogeneous landscape consistent with predictions?. <i>Ecosphere</i> , 2013 , 4, art117	3.1	64
104	Finding a middle-ground: The native/non-native debate. <i>Biological Conservation</i> , 2013 , 158, 55-62	6.2	64
103	<i>Centaurea</i> Species: the Forb That Won the West. <i>Conservation Biology</i> , 2001 , 15, 1568-1574	6	64

102	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		64
101	Maximization of Primary and Secondary Productivity by Grazers. <i>American Naturalist</i> , 1985 , 126, 559-564	3.7	62
100	ECOLOGICAL CONSEQUENCES OF C4 GRASS INVASION OF A C4 GRASSLAND: A DILEMMA FOR MANAGEMENT 2005 , 15, 1560-1569		60
99	Canopy interception of nitrogen in bulk precipitation by annually burned and unburned tallgrass prairie. <i>Oecologia</i> , 1985 , 66, 88-92	2.9	59
98	Long-term Agricultural Research: A Research, Education, and Extension Imperative. <i>BioScience</i> , 2008 , 58, 640-645	5.7	55
97	Woody overstorey effects on soil carbon and nitrogen pools in South African savanna. <i>Austral Ecology</i> , 2003 , 28, 173-181	1.5	53
96	Plant community and soil chemistry responses to long-term nitrogen inputs drive changes in alpine bacterial communities. <i>Ecology</i> , 2016 , 97, 1543-54	4.6	53
95	Plant Species Richness, Productivity, and Nitrogen and Phosphorus Limitations across a Snowpack Gradient in Alpine Tundra, Colorado, U.S.A.		51
94	Landscape patterns of litter decomposition in alpine tundra. <i>Oecologia</i> , 1994 , 99, 95-101	2.9	49
93	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. <i>Ecology</i> , 1983 , 64, 1040-1048	4.6	48
92	Analysis of litter decomposition in an alpine tundra. <i>Canadian Journal of Botany</i> , 1998 , 76, 1295-1304		47
91	Priorities for research in soil ecology. <i>Pedobiologia</i> , 2017 , 63, 1-7	1.7	44
90	Avian Territoriality: Sufficient Resources or Interference Competition. <i>American Naturalist</i> , 1979 , 114, 308-312	3.7	44
89	Plant Species Richness, Productivity, and Nitrogen and Phosphorus Limitations across a Snowpack Gradient in Alpine Tundra, Colorado, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2001 , 33, 100-106	1.8	42
88	Rapid soil organic matter loss from forest dieback in a subalpine coniferous ecosystem. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2450-2456	7.5	40
87	Effect of biocontrol insects on diffuse knapweed (<i>Centaurea diffusa</i>) in a Colorado grassland. <i>Weed Science</i> , 2003 , 51, 237-245	2	38
86	Short- and Long-Term Patterns of Soil Moisture in Alpine Tundra. <i>Arctic and Alpine Research</i> , 1994 , 26, 14		38
85	Distinct Animal-Generated Edge Effects in a Tallgrass Prairie Community. <i>Ecology</i> , 1993 , 74, 1281-1285	4.6	37

84	EFFECTS OF MOBILE TREE ISLANDS ON ALPINE TUNDRA SOILS. <i>Ecology</i> , 2001 , 82, 8-17	4.6	36
83	Soil ecological interactions: comparisons between tropical and subalpine forests. <i>Oecologia</i> , 2001 , 128, 549-556	2.9	34
82	Controls of Plant and Soil Carbon in a Semihumid Temperate Grassland 1994 , 4, 344-353		32
81	Northern Pocket Gopher (<i>Thomomys talpoides</i>) Control of Alpine Plant Community Structure. <i>Arctic, Antarctic, and Alpine Research</i> , 2005 , 37, 585-590	1.8	29
80	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	5	28
79	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	3.9	28
78	Sodium Dynamics in Forest Ecosystems and the Animal Starvation Hypothesis. <i>American Naturalist</i> , 1981 , 117, 1029-1034	3.7	28
77	Reconciling contradictory findings of herbivore impacts on spotted knapweed (<i>Centaurea stoebe</i>) growth and reproduction 2010 , 20, 1903-12		27
76	Biotic constraints on the invasion of diffuse knapweed (<i>Centaurea diffusa</i>) in North American grasslands. <i>Oecologia</i> , 2007 , 151, 626-36	2.9	27
75	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. <i>BioScience</i> , 2020 , 70, 35-47	5.7	27
74	Effects of management and topography on the radiometric response of a tallgrass prairie. <i>Journal of Geophysical Research</i> , 1992 , 97, 18855		26
73	Decomposition Rates and Nutrient Contents of Arthropod Remains in Forest Litter. <i>Ecology</i> , 1981 , 62, 13-19	4.6	25
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,		24
71	Landscape-level interactions between topoedaphic features and nitrogen limitation in tallgrass prairie. <i>Landscape Ecology</i> , 1995 , 10, 337-348	4.3	24
70	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	4.2	24
69	Abundance, Distribution, and Effects of Clearcutting on Cryptostigmata in the Southern Appalachians. <i>Environmental Entomology</i> , 1980 , 9, 618-623	2.1	24
68	Nitrogen Mineralization By Native and Introduced Earthworms: Effects on Big Bluestem Growth. <i>Ecology</i> , 1986 , 67, 1094-1097	4.6	23
67	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	3.1	22

66	Additive effects of aboveground and belowground herbivores on the dominance of spotted knapweed (<i>Centaurea stoebe</i>). <i>Oecologia</i> , 2010 , 164, 701-12	2.9	21
65	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	5	21
64	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	1.7	21
63	Effects of Mobile Tree Islands on Soil Carbon Storage in Tundra Ecosystems. <i>Ecology</i> , 1996 , 77, 2563-2567	4.6	21
62	Effects of precipitation change and neighboring plants on population dynamics of <i>Bromus tectorum</i> . <i>Oecologia</i> , 2015 , 179, 765-75	2.9	20
61	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	2.7	19
60	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	4.1	19
59	Biological Control Insect Use of Fertilized and Unfertilized Diffuse Knapweed in a Colorado Grassland. <i>Environmental Entomology</i> , 2005 , 34, 225-234	2.1	19
58	Feces nitrogen release induced by different large herbivores in a dry grassland. <i>Ecological Applications</i> , 2018 , 28, 201-211	4.9	18
57	Incorporating Novel Ecosystems into Management Frameworks 2013 , 157-171		18
56	Analysis of litter decomposition in an alpine tundra. <i>Canadian Journal of Botany</i> , 1998 , 76, 1295-1304		18
55	Plant Community Response to the Decline of Diffuse Knapweed in a Colorado Grassland. <i>Ecological Restoration</i> , 2007 , 25, 169-174		18
54	The effects of black-tailed prairie dogs on plant communities within a complex urban landscape: an ecological surprise?. <i>Ecology</i> , 2014 , 95, 1349-59	4.6	17
53	Spatial patterns of total and available N and P at alpine treeline. <i>Plant and Soil</i> , 2013 , 365, 127-140	4.2	16
52	Biological control and precipitation effects on spotted knapweed (<i>Centaurea stoebe</i>): empirical and modeling results. <i>Ecosphere</i> , 2013 , 4, art80	3.1	15
51	Canopy Rainfall Interception and Throughfall in Burned and Unburned Tallgrass Prairie. <i>Southwestern Naturalist</i> , 1987 , 32, 267	0.3	15
50	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	1.7	14
49	Response of a mixed grass prairie to an extreme precipitation event. <i>Ecosphere</i> , 2015 , 6, art172	3.1	13

48	Livestock grazing impacts on plateau pika (<i>Ochotona curzoniae</i>) vary by species identity. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 275, 23-31	5.7	12
47	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	2.2	12
46	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	2.2	12
45	Mowing Reduces Exotic Annual Grasses but Increases Exotic Forbs in a Semiarid Grassland. <i>Restoration Ecology</i> , 2014 , 22, 774-781	3.1	12
44	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	2.2	11
43	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	2	11
42	Microarthropods and Nematodes in Kangaroo Rat Burrows. <i>Southwestern Naturalist</i> , 1986 , 31, 114	0.3	11
41	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	1.7	10
40	Root herbivory in grassland ecosystems. 2008 , 54-67		10
39	Imposing antecedent global change conditions rapidly alters plant community composition in a mixed-grass prairie. <i>Oecologia</i> , 2016 , 182, 899-911	2.9	9
38	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	1.7	9
37	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	2.2	9
36	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	2.7	9
35	Regional and local patterns of soil nutrients at Rocky Mountain treelines. <i>Geoderma</i> , 2010 , 160, 208-217	6.7	9
34	A Model Information Management System for Ecological Research. <i>BioScience</i> , 1997 , 47, 310-316	5.7	8
33	Field bioassessments for selecting test systems to evaluate military training lands in tallgrass prairie. Ecosystem health. V. <i>Environmental Management</i> , 1990 , 14, 81-93	3.1	7
32	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	1.8	6
31	Nitrogen enrichment differentially affects above- and belowground plant defense. <i>American Journal of Botany</i> , 2012 , 99, 1630-7	2.7	6

30	Simulation of Carbon and Nitrogen Cycling in an Alpine Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2000 , 32, 147-154	1.8	6
29	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	3.1	6
28	Food and habitat provisions jointly determine competitive and facilitative interactions among distantly related herbivores. <i>Functional Ecology</i> , 2019 , 33, 2381-2390	5.6	5
27	Understanding invasions: the rise and fall of diffuse knapweed (<i>Centaurea diffusa</i>) in North America 2005 , 129-139		5
26	Simulation of Carbon and Nitrogen Cycling in an Alpine Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2000 , 32, 147	1.8	5
25	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	6.5	5
24	Factors Affecting Spotted Knapweed (<i>Centaurea stoebe</i>) Seedling Survival Rates. <i>Invasive Plant Science and Management</i> , 2013 , 6, 568-576	1	4
23	Case Study: Ecosystem Transformations along the Colorado Front Range: Prairie Dog Interactions with Multiple Components of Global Environmental Change 2013 , 142-149		4
22	Long-term experimental manipulation of winter snow regime and summer temperature in arctic and alpine tundra 1999 , 13, 2315		4
21	Sustainable Control of Spotted Knapweed (<i>Centaurea stoebe</i>) 2009 , 211-225		4
20	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	4.2	3
19	Ecosystem Stewardship as a Framework for Conservation in a Directionally Changing World 2013 , 326-333		3
18	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	2.5	3
17	Management of Plant Invasions: The Conflict of Perspective ¹ . <i>Weed Technology</i> , 2004 , 18, 1514-1517	1.4	3
16	Diets of Young Lapland Longspurs in Arctic and Subarctic Alaska. <i>Condor</i> , 1980 , 82, 232	2.1	3
15	Decadal dynamics of dry alpine meadows under nitrogen and phosphorus additions. <i>Plant Ecology</i> , 2020 , 221, 647-658	1.7	2
14	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	3.1	2
13	Restoring Competitors and Natural Enemies for Long-Term Control of Plant Invaders. <i>Rangelands</i> , 2010 , 32, 16-20	1.1	2

12	Biological Control: Perspectives for Maintaining Provisioning Services in the Anthropocene 2014 , 269-280		2
11	Climate Change, Ecosystem Processes and Biological Diversity Responses in High Elevation Communities. <i>Climate</i> , 2021 , 9, 87	3.1	2
10	Soil carbon and plant richness relationships differ among grassland types, disturbance history and plant functional groups. <i>Oecologia</i> , 2021 , 196, 1153-1166	2.9	2
9	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	3.9	2
8	The Management Framework in Practice Prairie Dogs at the Urban Interface: Conservation Solutions When Ecosystem Change Drivers are Beyond the Scope of Management Actions 2013 , 176-179		1
7	Comparative analysis of temporal and spatial variability in above-ground production in a deciduous forest and prairie. <i>Ecography</i> , 1989 , 12, 130-136	6.5	1
6	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA 1998 , 79, 2253		1
5	Management Practices in Tallgrass Prairie: Large- and Small-Scale Experimental Effects on Species Composition 1993 , 106-115		1
4	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03433.1	3.1	1
3	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	3.1	1
2	Invasive annual cheatgrass enhances the abundance of native microbial and microinvertebrate eukaryotes but reduces invasive earthworms. <i>Plant and Soil</i> , 1	4.2	0
1	Biological control monitoring. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 347-347	5.5	