David A Pyke

List of Publications by Year
in descending order

88 papers	6,708 citations	76326 40 h-index	66911 78 g-index
104 all docs	104 docs citations	104 times ranked	5813 citing authors

#	Article	IF	Citations
1	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	27.8	669
2	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	12.6	463
3	Statistical Analysis of Survival and Removal Rate Experiments. Ecology, 1986, 67, 240-245.	3.2	364
4	Resilience to Stress and Disturbance, and Resistance to Bromus tectorum L. Invasion in Cold Desert Shrublands of Western North America. Ecosystems, 2014, 17, 360-375.	3.4	336
5	Climate change reduces extent of temperate drylands and intensifies drought in deep soils. Nature Communications, 2017, 8, 14196.	12.8	282
6	The Demography of Bromus Tectorum: Variation in Time and Space. Journal of Ecology, 1983, 71, 69.	4.0	251
7	Rangeland Health Attributes and Indicators for Qualitative Assessment. Journal of Range Management, 2002, 55, 584.	0.3	199
8	Resilience and Resistance of Sagebrush Ecosystems: Implications for State and Transition Models and Management Treatments. Rangeland Ecology and Management, 2014, 67, 440-454.	2.3	195
9	Longâ€term effects of seeding after wildfire on vegetation in Great Basin shrubland ecosystems. Journal of Applied Ecology, 2014, 51, 1414-1424.	4.0	181
10	Conditions favouring <scp>B</scp>romus tectorum dominance of endangered sagebrush steppe ecosystems. Journal of Applied Ecology, 2013, 50, 1039-1049.	4.0	177
11	Comparison of skewness coefficient, coefficient of variation, and Gini coefficient as inequality measures within populations. Oecologia, 1989, 78, 394-400.	2.0	163
12	Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710.	12.8	143
13	National ecosystem assessments supported by scientific and local knowledge. Frontiers in Ecology and the Environment, 2010, 8, 403-408.	4.0	131
14	Climate changeâ€induced vegetation shifts lead to more ecological droughts despite projected rainfall increases in many global temperate drylands. Global Change Biology, 2017, 23, 2743-2754.	9.5	121
15	Fire as a Restoration Tool: A Decision Framework for Predicting the Control or Enhancement of Plants Using Fire. Restoration Ecology, 2010, 18, 274-284.	2.9	120
16	Demographic and growth responses of a guerrilla and a phalanx perennial grass in competitive mixtures. Journal of Ecology, 1998, 86, 854-865.	4.0	111
17	The Demography of Bromus Tectorum: The Role of Microclimate, Grazing and Disease. Journal of Ecology, 1984, 72, 731.	4.0	109
18	Comparative demography of co-occurring introduced and native tussock grasses: persistence and potential expansion. Oecologia, 1990, 82, 537-543.	2.0	108

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19	Quantifying restoration effectiveness using multiâ€scale habitat models: implications for sageâ€grouse in the Great Basin. Ecosphere, 2014, 5, 1-32.	2.2	96
20	Using Resilience and Resistance Concepts to Manage Persistent Threats to Sagebrush Ecosystems and Greater Sage-grouse. Rangeland Ecology and Management, 2017, 70, 149-164.	2.3	92
21	Abundance of introduced species at home predicts abundance away in herbaceous communities. Ecology Letters, 2011, 14, 274-281.	6.4	88
22	Characteristics of Sagebrush Habitats and Limitations to Long-Term Conservation. , 2011, , 144-184.		82
23	Plant-Plant Interactions Affecting Plant Establishment and Persistence on Revegetated Rangeland. Journal of Range Management, 1991, 44, 550.	0.3	81
24	Adapting management to a changing world: Warm temperatures, dry soil, and interannual variability limit restoration success of a dominant woody shrub in temperate drylands. Global Change Biology, 2018, 24, 4972-4982.	9.5	78
25	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687.	9.5	70
26	Impact of early root competition on fitness components of four semiarid species. Oecologia, 1990, 85, 159-166.	2.0	69
27	Burial increases seed longevity of two Artemisia tridentata (Asteraceae) subspecies. American Journal of Botany, 2012, 99, 438-447.	1.7	64
28	Does Seeding After Wildfires in Rangelands Reduce Erosion or Invasive Species?. Restoration Ecology, 2013, 21, 415-421.	2.9	64
29	Plant-Animal Interactions Affecting Plant Establishment and Persistence on Revegetated Rangeland. Journal of Range Management, 1991, 44, 558.	0.3	62
30	THE EFFECT OF STOCHASTIC TECHNIQUE ON ESTIMATES OF POPULATION VIABILITY FROM TRANSITION MATRIX MODELS. Ecology, 2003, 84, 1464-1476.	3.2	61
31	Transient population dynamics impede restoration and may promote ecosystem transformation after disturbance. Ecology Letters, 2019, 22, 1357-1366.	6.4	61
32	Fire and Grazing Influence Site Resistance to Bromus tectorum Through Their Effects on Shrub, Bunchgrass and Biocrust Communities in the Great Basin (USA). Ecosystems, 2018, 21, 1416-1431.	3.4	57
33	Biotic soil crusts in relation to topography, cheatgrass and fire in the Columbia Basin, Washington. Bryologist, 2007, 110, 706-722.	0.6	56
34	Region-Wide Ecological Responses of Arid Wyoming Big Sagebrush Communities to Fuel Treatments. Rangeland Ecology and Management, 2014, 67, 455-467.	2.3	55
35	A Spatial Model to Prioritize Sagebrush Landscapes in the Intermountain West (U.S.A.) for Restoration. Restoration Ecology, 2009, 17, 652-659.	2.9	51
36	Establishing Native Grasses in a Big Sagebrush-Dominated Site: An Intermediate Restoration Step. Restoration Ecology, 2005, 13, 292-301.	2.9	49

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37	Biological soil crusts in ecological restoration: emerging research and perspectives. Restoration Ecology, 2020, 28, S3.	2.9	46
38	Filling the interspaceâ€"restoring arid land mosses: source populations, organic matter, and overwintering govern success. Ecology and Evolution, 2016, 6, 7623-7632.	1.9	43
39	Resilience and resistance in sagebrush ecosystems are associated with seasonal soil temperature and water availability. Ecosphere, 2018, 9, e02417.	2.2	43
40	Morphological plasticity following speciesâ€specific recognition and competition in two perennial grasses. American Journal of Botany, 1996, 83, 919-931.	1.7	41
41	Defoliation Effects On Bromus Tectorum Seed Production: Implications For Grazing. Rangeland Ecology and Management, 2008, 61, 116-123.	2.3	41
42	Demographic Responses of Bromus Tectorum and Seedlings of Agropyron Spicatum to Grazing by Small Mammals: Occurrence and Severity of Grazing. Journal of Ecology, 1986, 74, 739.	4.0	40
43	Available nitrogen: A time-based study of manipulated resource islands. Plant and Soil, 2005, 270, 123-133.	3.7	40
44	EFFECTS OF NUTRIENT PATCHES AND ROOT SYSTEMS ON THE CLONAL PLASTICITY OF A RHIZOMATOUS GRASS. Ecology, 1998, 79, 2267-2280.	3.2	39
45	Effects of resource availability and propagule supply on native species recruitment in sagebrush ecosystems invaded by Bromus tectorum. Biological Invasions, 2011, 13, 513-526.	2.4	39
46	Resiliency of biological soil crusts and vascular plants varies among morphogroups with disturbance intensity. Plant and Soil, 2018, 433, 271-287.	3.7	37
47	Perception of neighbouring plants by rhizomes and roots: morphological manifestations of a clonal plant. Canadian Journal of Botany, 1997, 75, 2146-2157.	1.1	36
48	Monitoring of Livestock Grazing Effects on Bureau of Land Management Land. Rangeland Ecology and Management, 2014, 67, 68-77.	2.3	36
49	Fungal and bacterial contributions to nitrogen cycling in cheatgrass-invaded and uninvaded native sagebrush soils of the western USA. Plant and Soil, 2017, 416, 271-281.	3.7	34
50	Soil Resources Influence Vegetation and Response to Fire and Fire-Surrogate Treatments in Sagebrush-Steppe Ecosystems. Rangeland Ecology and Management, 2014, 67, 506-521.	2.3	32
51	Multiscale responses of soil stability and invasive plants to removal of non-native grazers from an arid conservation reserve. Diversity and Distributions, 2006, 12, 258-268.	4.1	31
52	Crested Wheatgrass-Cheatgrass Seedling Competition in a Mixed-Density Design. Journal of Range Management, 1996, 49, 432.	0.3	30
53	Demographic Responses of Bromus Tectorum and Seedlings of Agropyron Spicatum to Grazing by Small Mammals: The Influence of Grazing Frequency and Plant Age. Journal of Ecology, 1987, 75, 825.	4.0	29
54	Morphological Plasticity Following Species-Specific Recognition and Competition in Two Perennial Grasses. American Journal of Botany, 1996, 83, 919.	1.7	29

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55	Patterns in Greater Sageâ€grouse population dynamics correspond with public grazing records at broad scales. Ecological Applications, 2017, 27, 1096-1107.	3.8	29
56	Clonal Foraging in Perennial Wheatgrasses: A Strategy for Exploiting Patchy Soil Nutrients. Journal of Ecology, 1997, 85, 601.	4.0	28
57	Outplanting Wyoming Big Sagebrush Following Wildfire: Stock Performance and Economics. Rangeland Ecology and Management, 2013, 66, 657-666.	2.3	28
58	Stressâ€gradient hypothesis explains susceptibility to Bromus tectorum invasion and community stability in North America's semiâ€arid Artemisia tridentata wyomingensis ecosystems. Journal of Vegetation Science, 2015, 26, 1212-1224.	2.2	27
59	A holistic strategy for adaptive land management. Journal of Soils and Water Conservation, 2012, 67, 105A-113A.	1.6	26
60	Restoring Forbs for Sage Grouse Habitat: Fire, Microsites, and Establishment Methods. Restoration Ecology, 2003, 11, 370-377.	2.9	25
61	Western juniper and ponderosa pine ecotonal climateâ€“growth relationships across landscape gradients in southern Oregon. Canadian Journal of Forest Research, 2008, 38, 3021-3032.	1.7	25
62	Assessing Transportation Infrastructure Impacts on Rangelands: Test of a Standard Rangeland Assessment Protocol. Rangeland Ecology and Management, 2010, 63, 524-536.	2.3	24
63	Postfire growth of seeded and planted big sagebrushâ€”strategic designs for restoring greater sageâ€grouse nesting habitat. Restoration Ecology, 2020, 28, 1495-1504.	2.9	23
64	Land Uses, Fire, and Invasion: Exotic Annual Bromus and Human Dimensions. Springer Series on Environmental Management, 2016, , 307-337.	0.3	23
65	Passive restoration of vegetation and biological soil crusts following 80â€‰years of exclusion from grazing across the Great Basin. Restoration Ecology, 2020, 28, S75.	2.9	22
66	A strategy for defining the reference for land health and degradation assessments. Ecological Indicators, 2019, 97, 225-230.	6.3	20
67	A Synopsis of Short-Term Response to Alternative Restoration Treatments in Sagebrush-Steppe: The SageSTEP Project. Rangeland Ecology and Management, 2014, 67, 584-598.	2.3	19
68	Soil characteristics are associated with gradients of big sagebrush canopy structure after disturbance. Ecosphere, 2019, 10, e02780.	2.2	19
69	Restoring and Rehabilitating Sagebrush Habitats. , 2011, , 530-548.		19
70	Relationships between Overstory Structure and Understory Production in the Grand Fir/Myrtle Boxwood Habitat Type of Northcentral Idaho. Journal of Range Management, 1982, 35, 769.	0.3	18
71	Limited Resources and Reproductive Constraints in Annuals. Functional Ecology, 1989, 3, 221.	3.6	17
72	Ecological Influence and Pathways of Land Use in Sagebrush. , 2011, , 202-251.		14

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73	Functional Group, Biomass, and Climate Change Effects on Ecological Drought in Semiarid Grasslands. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1072-1085.	3.0	13
74	Fuel reduction treatments reduce modeled fire intensity in the sagebrush steppe. Ecosphere, 2022, 13, .	2.2	13
75	Hydroseeding tackifiers and dryland moss restoration potential. Restoration Ecology, 2020, 28, S127.	2.9	12
76	Ramet spacing of Elymus lanceolatus (thickspike wheatgrass) in response to neighbour density. Canadian Journal of Botany, 2001, 79, 1122-1126.	1.1	11
77	Yield Responses of Ruderal Plants to Sucrose in Invasiveâ€Dominated Sagebrush Steppe of the Northern Great Basin. Restoration Ecology, 2010, 18, 304-312.	2.9	10
78	Components and Predictors of Biological Soil Crusts Vary at the Regional vs. Plant Community Scales. Frontiers in Ecology and Evolution, 2020, 7, .	2.2	10
79	Sagebrush recovery patterns after fuel treatments mediated by disturbance type and plant functional group interactions. Ecosphere, 2021, 12, e03450.	2.2	9
80	Is Rangeland Health Relevant to Mongolia?. Rangelands, 2008, 30, 25-29.	1.9	6
81	Nitrogen limitation, 15N tracer retention, and growth response in intact and Bromus tectorum-invaded Artemisia tridentata ssp. wyomingensis communities. Oecologia, 2013, 171, 1013-1023.	2.0	6
82	Monitoring Protocols: Options, Approaches, Implementation, Benefits. Springer Series on Environmental Management, 2017, , 527-567.	0.3	6
83	Mapping Individual Plants with a Field-Portable Digitizer. Ecology, 1979, 60, 459-461.	3.2	4
84	Initial Effects of Volcanic Ash from Mount St. Helens on Peromyscus maniculatus and Microtus montanus. Journal of Mammalogy, 1984, 65, 678-680.	1.3	4
85	Targeting Sagebrush (Artemisia Spp.) Restoration Following Wildfire with Greater Sage-Grouse (Centrocercus Urophasianus) Nest Selection and Survival Models. Environmental Management, 2022, 70, 288-306.	2.7	4
86	Learning Natural Resource Assessment Protocols: Elements for Success and Lessons From an International Workshop in Inner Mongolia, China. Rangelands, 2010, 32, 2-9.	1.9	2
87	Learning Natural Resource Assessment Protocols: Elements for Success and Lessons From an International Workshop in Inner Mongolia, China. Rangelands, 2010, 32, .	1.9	0
88	Context-dependent Effects of Livestock Grazing in Deserts of Western North America. , 2019, , 89-114.		0