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	Fuel reduction treatments reduce modeled fire intensity in the sagebrush steppe. Ecosphere, 2022, 13, .	2.2	13
2	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
3	Sagebrush recovery patterns after fuel treatments mediated by disturbance type and plant functional group interactions. Ecosphere, 2021, 12, e03450.	2.2	9
4	Hydroseeding tackifiers and dryland moss restoration potential. Restoration Ecology, 2020, 28, S127.	2.9	12
5	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
6	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
7	Biological soil crusts in ecological restoration: emerging research and perspectives. Restoration Ecology, 2020, 28, S3.	2.9	46
8	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
9	Transient population dynamics impede restoration and may promote ecosystem transformation after disturbance. Ecology Letters, 2019, 22, 1357-1366.	6.4	61
10	Soil characteristics are associated with gradients of big sagebrush canopy structure after disturbance. Ecosphere, 2019, 10, e02780.	2.2	19
11	A strategy for defining the reference for land health and degradation assessments. Ecological Indicators, 2019, 97, 225-230.	6.3	20
12	Context-dependent Effects of Livestock Grazing in Deserts of Western North America. , 2019, , 89-114.		0
13	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
14	Resiliency of biological soil crusts and vascular plants varies among morphogroups with disturbance intensity. Plant and Soil, 2018, 433, 271-287.	3.7	37
15	Resilience and resistance in sagebrush ecosystems are associated with seasonal soil temperature and water availability. Ecosphere, 2018, 9, e02417.	2.2	43
16	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
17	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
18	Climate change reduces extent of temperate drylands and intensifies drought in deep soils. Nature Communications, 2017, 8, 14196.	12.8	282

#	ARTICLE	IF	CITATIONS
19	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
20	Patterns in Greater Sageâ€grouse population dynamics correspond with public grazing records at broad scales. Ecological Applications, 2017, 27, 1096-1107.	3.8	29
21	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
22	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
23	Monitoring Protocols: Options, Approaches, Implementation, Benefits. Springer Series on Environmental Management, 2017, , 527-567.	0.3	6
24	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
25	Land Uses, Fire, and Invasion: Exotic Annual Bromus and Human Dimensions. Springer Series on Environmental Management, 2016, , 307-337.	0.3	23
26	Stressâ€gradient hypothesis explains susceptibility to <i>Bromus tectorum</i> invasion and community stability in North America's semiâ€arid <i>Artemisia tridentata wyomingensis</i> ecosystems. Journal of Vegetation Science, 2015, 26, 1212-1224.	2.2	27
27	Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710.	12.8	143
28	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
29	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
30	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
31	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
32	Monitoring of Livestock Grazing Effects on Bureau of Land Management Land. Rangeland Ecology and Management, 2014, 67, 68-77.	2.3	36
33	Region-Wide Ecological Responses of Arid Wyoming Big Sagebrush Communities to Fuel Treatments. Rangeland Ecology and Management, 2014, 67, 455-467.	2.3	55
34	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
35	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	27.8	669
36	Quantifying restoration effectiveness using multiâ€scale habitat models: implications for sageâ€grouse in the Great Basin. Ecosphere, 2014, 5, 1-32.	2.2	96

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37	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
38	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687.	9.5	70
39	Does Seeding After Wildfires in Rangelands Reduce Erosion or Invasive Species?. Restoration Ecology, 2013, 21, 415-421.	2.9	64
40	Conditions favouring <i><scp>B</scp>romus tectorum</i> dominance of endangered sagebrush steppe ecosystems. Journal of Applied Ecology, 2013, 50, 1039-1049.	4.0	177
41	Outplanting Wyoming Big Sagebrush Following Wildfire: Stock Performance and Economics. Rangeland Ecology and Management, 2013, 66, 657-666.	2.3	28
42	A holistic strategy for adaptive land management. Journal of Soils and Water Conservation, 2012, 67, 105A-113A.	1.6	26
43	Burial increases seed longevity of two <i>Artemisia tridentata</i> (Asteraceae) subspecies. American Journal of Botany, 2012, 99, 438-447.	1.7	64
44	Abundance of introduced species at home predicts abundance away in herbaceous communities. Ecology Letters, 2011, 14, 274-281.	6.4	88
45	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	12.6	463
46	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
47	Characteristics of Sagebrush Habitats and Limitations to Long-Term Conservation. , 2011, , 144-184.		82
48	Ecological Influence and Pathways of Land Use in Sagebrush. , 2011, , 202-251.		14
49	Restoring and Rehabilitating Sagebrush Habitats. , 2011, , 530-548.		19
50	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
51	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
52	Learning Natural Resource Assessment Protocols: Elements for Success and Lessons From an International Workshop in Inner Mongolia, China. Rangelands, 2010, 32, .	1.9	0
53	Assessing Transportation Infrastructure Impacts on Rangelands: Test of a Standard Rangeland Assessment Protocol. Rangeland Ecology and Management, 2010, 63, 524-536.	2.3	24
54	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

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55	National ecosystem assessments supported by scientific and local knowledge. Frontiers in Ecology and the Environment, 2010, 8, 403-408.	4.0	131
56	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
57	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
58	Defoliation Effects On Bromus Tectorum Seed Production: Implications For Grazing. Rangeland Ecology and Management, 2008, 61, 116-123.	2.3	41
59	Is Rangeland Health Relevant to Mongolia?. Rangelands, 2008, 30, 25-29.	1.9	6
60	Biotic soil crusts in relation to topography, cheatgrass and fire in the Columbia Basin, Washington. Bryologist, 2007, 110, 706-722.	0.6	56
61	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
62	Establishing Native Grasses in a Big Sagebrush-Dominated Site: An Intermediate Restoration Step. Restoration Ecology, 2005, 13, 292-301.	2.9	49
63	Available nitrogen: A time-based study of manipulated resource islands. Plant and Soil, 2005, 270, 123-133.	3.7	40
64	Restoring Forbs for Sage Grouse Habitat: Fire, Microsites, and Establishment Methods. Restoration Ecology, 2003, 11, 370-377.	2.9	25
65	THE EFFECT OF STOCHASTIC TECHNIQUE ON ESTIMATES OF POPULATION VIABILITY FROM TRANSITION MATRIX MODELS. Ecology, 2003, 84, 1464-1476.	3.2	61
66	Rangeland Health Attributes and Indicators for Qualitative Assessment. Journal of Range Management, 2002, 55, 584.	0.3	199
67	Ramet spacing of Elymus lanceolatus (thickspike wheatgrass) in response to neighbour density. Canadian Journal of Botany, 2001, 79, 1122-1126.	1.1	11
68	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
69	EFFECTS OF NUTRIENT PATCHES AND ROOT SYSTEMS ON THE CLONAL PLASTICITY OF A RHIZOMATOUS GRASS. Ecology, 1998, 79, 2267-2280.	3.2	39
70	Clonal Foraging in Perennial Wheatgrasses: A Strategy for Exploiting Patchy Soil Nutrients. Journal of Ecology, 1997, 85, 601.	4.0	28
71	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
72	Crested Wheatgrass-Cheatgrass Seedling Competition in a Mixed-Density Design. Journal of Range Management, 1996, 49, 432.	0.3	30

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73	Morphological Plasticity Following Species-Specific Recognition and Competition in Two Perennial Grasses. American Journal of Botany, 1996, 83, 919.	1.7	29
74	Morphological plasticity following speciesâ€specific recognition and competition in two perennial grasses. American Journal of Botany, 1996, 83, 919-931.	1.7	41
75	Plant-Plant Interactions Affecting Plant Establishment and Persistence on Revegetated Rangeland. Journal of Range Management, 1991, 44, 550.	0.3	81
76	Plant-Animal Interactions Affecting Plant Establishment and Persistence on Revegetated Rangeland. Journal of Range Management, 1991, 44, 558.	0.3	62
77	Impact of early root competition on fitness components of four semiarid species. Oecologia, 1990, 85, 159-166.	2.0	69
78	Comparative demography of co-occurring introduced and native tussock grasses: persistence and potential expansion. Oecologia, 1990, 82, 537-543.	2.0	108
79	Limited Resources and Reproductive Constraints in Annuals. Functional Ecology, 1989, 3, 221.	3.6	17
80	Comparison of skewness coefficient, coefficient of variation, and Gini coefficient as inequality measures within populations. Oecologia, 1989, 78, 394-400.	2.0	163
81	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
82	Statistical Analysis of Survival and Removal Rate Experiments. Ecology, 1986, 67, 240-245.	3.2	364
83	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
84	The Demography of Bromus Tectorum: The Role of Microclimate, Grazing and Disease. Journal of Ecology, 1984, 72, 731.	4.0	109
85	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
86	The Demography of Bromus Tectorum: Variation in Time and Space. Journal of Ecology, 1983, 71, 69.	4.0	251
87	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
88	Mapping Individual Plants with a Field-Portable Digitizer. Ecology, 1979, 60, 459-461.	3.2	4