

David Pilliod

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

6,459
citations

76196

40
h-index

71532

76
g-index

113
all docs

113
docs citations

113
times ranked

5725
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical considerations for the application of environmental <scp>DNA</scp> methods to detect aquatic species. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1299-1307.	2.2	684
2	Estimating occupancy and abundance of stream amphibians using environmental DNA from filtered water samples. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1123-1130.	0.7	444
3	Molecular Detection of Vertebrates in Stream Water: A Demonstration Using Rocky Mountain Tailed Frogs and Idaho Giant Salamanders. <i>PLoS ONE</i> , 2011, 6, e22746.	1.1	397
4	Factors influencing detection of <scp>eDNA</scp> from a stream-dwelling amphibian. <i>Molecular Ecology Resources</i> , 2014, 14, 109-116.	2.2	358
5	Population structure of Columbia spotted frogs (<i>Rana luteiventris</i>) is strongly affected by the landscape. <i>Molecular Ecology</i> , 2005, 14, 483-496.	2.0	305
6	Characterizing the distribution of an endangered salmonid using environmental DNA analysis. <i>Biological Conservation</i> , 2015, 183, 29-37.	1.9	243
7	Moving environmental DNA methods from concept to practice for monitoring aquatic macroorganisms. <i>Biological Conservation</i> , 2015, 183, 1-3.	1.9	215
8	Quantitative evidence for the effects of multiple drivers on continental-scale amphibian declines. <i>Scientific Reports</i> , 2016, 6, 25625.	1.6	196
9	Landscape genetics of high mountain frog metapopulations. <i>Molecular Ecology</i> , 2010, 19, 3634-3649.	2.0	190
10	Long-term effects of seeding after wildfire on vegetation in Great Basin shrubland ecosystems. <i>Journal of Applied Ecology</i> , 2014, 51, 1414-1424.	1.9	181
11	Fire and amphibians in North America. <i>Forest Ecology and Management</i> , 2003, 178, 163-181.	1.4	139
12	Refining the cheatgrass-fire cycle in the Great Basin: Precipitation timing and fine fuel composition predict wildfire trends. <i>Ecology and Evolution</i> , 2017, 7, 8126-8151.	0.8	129
13	Seasonal migration of Columbia spotted frogs (<i>Rana luteiventris</i>) among complementary resources in a high mountain basin. <i>Canadian Journal of Zoology</i> , 2002, 80, 1849-1862.	0.4	110
14	Local and Landscape Effects of Introduced Trout on Amphibians in Historically Fishless Watersheds. <i>Ecosystems</i> , 2001, 4, 322-333.	1.6	103
15	Effects of Amphibian Chytrid Fungus on Individual Survival Probability in Wild Boreal Toads. <i>Conservation Biology</i> , 2010, 24, 1259-1267.	2.4	102
16	Compensatory effects of recruitment and survival when amphibian populations are perturbed by disease. <i>Journal of Applied Ecology</i> , 2011, 48, 873-879.	1.9	97
17	Quantifying restoration effectiveness using multi-scale habitat models: implications for sage-grouse in the Great Basin. <i>Ecosphere</i> , 2014, 5, 1-32.	1.0	96
18	Seventy-Five Years of Vegetation Treatments on Public Rangelands in the Great Basin of North America. <i>Rangelands</i> , 2017, 39, 1-9.	0.9	91

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19	Distribution and environmental limitations of an amphibian pathogen in the Rocky Mountains, USA. <i>Biological Conservation</i> , 2008, 141, 1484-1492.	1.9	89
20	Quantifying climate sensitivity and climate-driven change in North American amphibian communities. <i>Nature Communications</i> , 2018, 9, 3926.	5.8	79
21	Assessing the Consequences of Nonnative Trout in Headwater Ecosystems in Western North America. <i>Fisheries</i> , 2004, 29, 18-26.	0.6	78
22	Adapting management to a changing world: Warm temperatures, dry soil, and interannual variability limit restoration success of a dominant woody shrub in temperate drylands. <i>Global Change Biology</i> , 2018, 24, 4972-4982.	4.2	78
23	Prescribed fires as ecological surrogates for wildfires: A stream and riparian perspective. <i>Forest Ecology and Management</i> , 2010, 259, 893-903.	1.4	77
24	Estimating vegetation biomass and cover across large plots in shrub and grass dominated drylands using terrestrial lidar and machine learning. <i>Ecological Indicators</i> , 2018, 84, 793-802.	2.6	74
25	Thresholds and hotspots for shrub restoration following a heterogeneous megafire. <i>Landscape Ecology</i> , 2018, 33, 1177-1194.	1.9	68
26	Weather-Centric Rangeland Revegetation Planning. <i>Rangeland Ecology and Management</i> , 2018, 71, 1-11.	1.1	62
27	Transient population dynamics impede restoration and may promote ecosystem transformation after disturbance. <i>Ecology Letters</i> , 2019, 22, 1357-1366.	3.0	61
28	Landsat 8 and ICESat-2: Performance and potential synergies for quantifying dryland ecosystem vegetation cover and biomass. <i>Remote Sensing of Environment</i> , 2016, 185, 233-242.	4.6	60
29	Heterogeneous responses of temperate-zone amphibian populations to climate change complicates conservation planning. <i>Scientific Reports</i> , 2017, 7, 17102.	1.6	56
30	Lidar Aboveground Vegetation Biomass Estimates in Shrublands: Prediction, Uncertainties and Application to Coarser Scales. <i>Remote Sensing</i> , 2017, 9, 903.	1.8	54
31	Survey of Beaver-related Restoration Practices in Rangeland Streams of the Western USA. <i>Environmental Management</i> , 2018, 61, 58-68.	1.2	54
32	An analytical framework for estimating aquatic species density from environmental <sc>DNA</sc>. <i>Ecology and Evolution</i> , 2018, 8, 3468-3477.	0.8	52
33	Long-term trends in restoration and associated land treatments in the southwestern United States. <i>Restoration Ecology</i> , 2018, 26, 311-322.	1.4	49
34	Bioaccumulation trends of arsenic and antimony in a freshwater ecosystem affected by mine drainage. <i>Environmental Chemistry</i> , 2016, 13, 149.	0.7	48
35	Challenges of Establishing Big Sagebrush (<i>Artemisia tridentata</i>) in Rangeland Restoration: Effects of Herbicide, Mowing, Whole-Community Seeding, and Sagebrush Seed Sources. <i>Rangeland Ecology and Management</i> , 2015, 68, 432-435.	1.1	47
36	Non-native salmonids affect amphibian occupancy at multiple spatial scales. <i>Diversity and Distributions</i> , 2010, 16, 959-974.	1.9	44

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37	The ecological uncertainty of wildfire fuel breaks: examples from the sagebrush steppe. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 279-288.	1.9	43
38	Fire, flow and dynamic equilibrium in stream macroinvertebrate communities. <i>Freshwater Biology</i> , 2010, 55, 299-314.	1.2	42
39	Pattern and process of prescribed fires influence effectiveness at reducing wildfire severity in dry coniferous forests. <i>Forest Ecology and Management</i> , 2012, 276, 174-184.	1.4	42
40	Roles of Patch Characteristics, Drought Frequency, and Restoration in Long-Term Trends of a Widespread Amphibian. <i>Conservation Biology</i> , 2013, 27, 1410-1420.	2.4	42
41	Performance of Quantitative Vegetation Sampling Methods Across Gradients of Cover in Great Basin Plant Communities. <i>Rangeland Ecology and Management</i> , 2013, 66, 634-647.	1.1	39
42	Effects of climate change on habitat and connectivity for populations of a vulnerable, endemic salamander in Iran. <i>Global Ecology and Conservation</i> , 2019, 19, e00637.	1.0	39
43	Index for Characterizing Post-Fire Soil Environments in Temperate Coniferous Forests. <i>Forests</i> , 2012, 3, 445-466.	0.9	36
44	Assessing the effectiveness of riparian restoration projects using Landsat and precipitation data from the cloud-computing application ClimateEngine.org. <i>Ecological Engineering</i> , 2018, 120, 432-440.	1.6	36
45	Diverse aging rates in ectothermic tetrapods provide insights for the evolution of aging and longevity. <i>Science</i> , 2022, 376, 1459-1466.	6.0	34
46	Persistence at distributional edges: Columbia spotted frog habitat in the arid Great Basin, USA. <i>Ecology and Evolution</i> , 2015, 5, 3704-3724.	0.8	32
47	Effects of changing climate on aquatic habitat and connectivity for remnant populations of a wide-ranging frog species in an arid landscape. <i>Ecology and Evolution</i> , 2015, 5, 3979-3994.	0.8	31
48	Saprolegniaceae identified on amphibian eggs throughout the Pacific Northwest, USA, by internal transcribed spacer sequences and phylogenetic analysis. <i>Mycologia</i> , 2008, 100, 171-180.	0.8	28
49	A National-Scale Assessment of Mercury Bioaccumulation in United States National Parks Using Dragonfly Larvae As Biosentinels through a Citizen-Science Framework. <i>Environmental Science & Technology</i> , 2020, 54, 8779-8790.	4.6	27
50	Bridging the research-management gap: landscape science in practice on public lands in the western United States. <i>Landscape Ecology</i> , 2020, 35, 545-560.	1.9	24
51	Saprolegniaceae identified on amphibian eggs throughout the Pacific Northwest, USA, by internal transcribed spacer sequences and phylogenetic analysis. <i>Mycologia</i> , 2008, 100, 171-180.	0.8	23
52	Amphibian Responses to Wildfire in the Western United States: Emerging Patterns from Short-Term Studies. <i>Fire Ecology</i> , 2011, 7, 129-144.	1.1	23
53	Regional variation in drivers of connectivity for two frog species (<i>Rana pretiosa</i> and <i>Rana muscosa</i>) in the western United States. <i>Conservation Biology</i> , 2011, 25, 1073-1083.	1.0	23
54	Postfire growth of seeded and planted big sagebrush: strategic designs for restoring greater sage-grouse nesting habitat. <i>Restoration Ecology</i> , 2020, 28, 1495-1504.	1.4	23

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55	Reptiles Under the Conservation Umbrella of the Greater Sage-Grouse. <i>Journal of Wildlife Management</i> , 2020, 84, 478-491.	0.7	23
56	Adding invasive species biosurveillance to the U.S. Geological Survey streamgage network. <i>Ecosphere</i> , 2019, 10, e02843.	1.0	22
57	Role of habitat complexity in predator-prey dynamics between an introduced fish and larval Long-toed Salamanders (<i>Ambystoma macrodactylum</i>). <i>Canadian Journal of Zoology</i> , 2016, 94, 243-249.	0.4	21
58	Managing habitat to slow or reverse population declines of the Columbia spotted frog in the Northern Great Basin. <i>Journal of Wildlife Management</i> , 2015, 79, 579-590.	0.7	20
59	Occupancy and abundance of predator and prey: implications of the fire-heatgrass cycle in sagebrush ecosystems. <i>Ecosphere</i> , 2016, 7, e01307.	1.0	20
60	Functional and geographic components of risk for climate sensitive vertebrates in the Pacific Northwest, USA. <i>Biological Conservation</i> , 2018, 228, 183-194.	1.9	20
61	A Soil Burn Severity Index for Understanding Soil-fire Relations in Tropical Forests. <i>Ambio</i> , 2008, 37, 563-568.	2.8	19
62	Soil characteristics are associated with gradients of big sagebrush canopy structure after disturbance. <i>Ecosphere</i> , 2019, 10, e02780.	1.0	19
63	Cannot see the random forest for the decision trees: selecting predictive models for restoration ecology. <i>Restoration Ecology</i> , 2019, 27, 1053-1063.	1.4	19
64	Small-scale water deficits after wildfires create long-lasting ecological impacts. <i>Environmental Research Letters</i> , 2020, 15, 044001.	2.2	19
65	TAXONOMIC VARIATION IN OVIPOSITION BY TAILED FROGS (<i>ASCAPHUS</i> SPP). <i>Northwestern Naturalist</i> , 2006, 87, 87-97.	0.5	18
66	Fuel Reduction Management Practices in Riparian Areas of the Western USA. <i>Environmental Management</i> , 2010, 46, 91-100.	1.2	18
67	Great Expectations: Deconstructing the Process Pathways Underlying Beaver-Related Restoration. <i>BioScience</i> , 2021, 71, 249-267.	2.2	18
68	Pre-fire vegetation drives post-fire outcomes in sagebrush ecosystems: evidence from field and remote sensing data. <i>Ecosphere</i> , 2019, 10, e02929.	1.0	17
69	Genomic signatures of thermal adaptation are associated with clinal shifts of life history in a broadly distributed frog. <i>Journal of Animal Ecology</i> , 2022, 91, 1222-1238.	1.3	17
70	Protecting restoration investments from the cheatgrass-fire cycle in sagebrush steppe. <i>Conservation Science and Practice</i> , 2021, 3, e508.	0.9	17
71	Appropriate Sample Sizes for Monitoring Burned Pastures in Sagebrush Steppe: How Many Plots are Enough, and Can One Size Fit All?. <i>Rangeland Ecology and Management</i> , 2018, 71, 721-726.	1.1	16
72	A round-robin evaluation of the repeatability and reproducibility of environmental DNA assays for dreissenid mussels. <i>Environmental DNA</i> , 2020, 2, 446-459.	3.1	16

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73	Thermal conditions predict intraspecific variation in senescence rate in frogs and toads. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
74	Adaptive monitoring in support of adaptive management in rangelands. Rangelands, 2022, 44, 1-7.	0.9	15
75	Integration of eDNA-Based Biological Monitoring within the U.S. Geological Survey's National Streamgauge Network. Journal of the American Water Resources Association, 2019, 55, 1505-1518.	1.0	14
76	Extreme Arsenic and Antimony Uptake and Tolerance in Toad Tadpoles during Development in Highly Contaminated Wetlands. Environmental Science & Technology, 2020, 54, 7983-7991.	4.6	13
77	From satellites to frogs: Quantifying ecohydrological change, drought mitigation, and population demography in desert meadows. Science of the Total Environment, 2021, 758, 143632.	3.9	12
78	Ecosystem Engineering of Harvester Ants: Effects on Vegetation in a Sagebrush-Steppe Ecosystem. Western North American Naturalist, 2016, 76, 82-89.	0.2	11
79	It's complicated - environmental DNA as a predictor of trout and char abundance in streams. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 422-432.	0.7	10
80	Lack of Significant Changes in the Herpetofauna of Theodore Roosevelt National Park, North Dakota, Since the 1920s. American Midland Naturalist, 2005, 154, 423-432.	0.2	9
81	Persistence and extirpation in invaded landscapes: patch characteristics and connectivity determine effects of non-native predatory fish on native salamanders. Biological Invasions, 2013, 15, 671-685.	1.2	9
82	Transition of Vegetation States Positively Affects Harvester Ants in the Great Basin, United States. Rangeland Ecology and Management, 2016, 69, 449-456.	1.1	9
83	Insect communities in big sagebrush habitat are altered by wildfire and post-fire restoration seeding. Insect Conservation and Diversity, 2019, 12, 216-230.	1.4	8
84	An Introduction and Practical Guide to Use of the Soil-Vegetation Inventory Method (SVIM) Data. Rangeland Ecology and Management, 2018, 71, 671-680.	1.1	7
85	Illegal killing of nongame wildlife and recreational shooting in conservation areas. Conservation Science and Practice, 2020, 2, e279.	0.9	7
86	A reference system for animal biometrics: Application to the northern leopard frog. , 2014, , .		6
87	Exploring the Use of Environmental DNA to Determine the Species of Salmon Redds. North American Journal of Fisheries Management, 2017, 37, 943-950.	0.5	6
88	Harvester ant seed removal in an invaded sagebrush ecosystem: Implications for restoration. Ecology and Evolution, 2020, 10, 13731-13741.	0.8	6
89	Leveraging rangeland monitoring data for wildlife: From concept to practice. Rangelands, 2022, 44, 87-98.	0.9	6
90	Importance of local weather and environmental gradients on demography of a broadly distributed temperate frog. Ecological Indicators, 2022, 136, 108648.	2.6	6

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91	Hyperspectral Analysis of Columbia Spotted Frog Habitat. <i>Journal of Wildlife Management</i> , 2010, 74, 1387-1394.	0.7	5
92	Larval long-toed salamanders incur nonconsumptive effects in the presence of nonnative trout. <i>Ecosphere</i> , 2016, 7, e01258.	1.0	5
93	Methodological considerations of terrestrial laser scanning for vegetation monitoring in the sagebrush steppe. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 578.	1.3	5
94	Sampling animal sign in heterogeneous environments: How much is enough?. <i>Journal of Arid Environments</i> , 2015, 119, 51-55.	1.2	4
95	Spatiotemporal dynamics of insect pollinator communities in sagebrush steppe associated with weather and vegetation. <i>Global Ecology and Conservation</i> , 2021, 29, e01691.	1.0	4
96	Elevating human dimensions of amphibian and reptile conservation, a <scp>USA</scp> perspective. <i>Conservation Science and Practice</i> , 2022, 4, .	0.9	4
97	Clark's Nutcracker (<i>Nucifraga columbiana</i>) Predation on Tadpoles of the Columbia Spotted Frog (<i>Rana</i>) Tj ETQq1 1 0.7843143rgBT /Over		
98	Hyperspectral Analysis of Columbia Spotted Frog Habitat. <i>Journal of Wildlife Management</i> , 2010, 74, 1387-1394.	0.7	3
99	Corrigendum to "Distribution and environmental limitations of an amphibian pathogen in the Rocky Mountains, USA" [Biological Conservation 141 (2008) 1484-1492]. <i>Biological Conservation</i> , 2008, 141, 3170.	1.9	2
100	Stream Restoration Is Influenced by Details of Engineered Habitats at a Headwater Mine Site. <i>Diversity</i> , 2021, 13, 48.	0.7	2
101	Hydroclimatic Conditions, Wildfire, and Species Assemblages Influence Co-Occurrence of Bull Trout and Tailed Frogs in Northern Rocky Mountain Streams. <i>Water (Switzerland)</i> , 2022, 14, 1162.	1.2	2