John Harte

List of Publications by Year
in descending order

Version: 2024-02-01

131 papers	13,956 citations	38660 50 h-index	22764 112 g-index
151 all docs	151 docs citations	151 times ranked	15492 citing authors

#	Article	IF	Citations
1	Approaching a state shift in Earthâ€™s biosphere. Nature, 2012, 486, 52-58.	13.7	1,518
2	Convergence across biomes to a common rain-use efficiency. Nature, 2004, 429, 651-654.	13.7	968
3	Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. Ecology Letters, 2012, 15, 164-175.	3.0	764
4	Plot-scale evidence of tundra vegetation change and links to recent summer warming. Nature Climate Change, 2012, 2, 453-457.	8.1	745
5	Assessing the Response of Terrestrial Ecosystems to Potential Changes in Precipitation. BioScience, 2003, 53, 941.	2.2	680
6	Global Warming and Terrestrial Ecosystems: A Conceptual Framework for Analysis. BioScience, 2000, 50, 871.	2.2	599
7	Shifting Dominance Within a Montane Vegetation Community: Results of a Climate-Warming Experiment. Science, 1995, 267, 876-880.	6.0	466
8	Experimental warming causes large and rapid species loss, dampened by simulated grazing, on the Tibetan Plateau. Ecology Letters, 2004, 7, 1170-1179.	3.0	456
9	SUBALPINE MEADOW FLOWERING PHENOLOGY RESPONSES TO CLIMATE CHANGE: INTEGRATING EXPERIMENTAL AND GRADIENT METHODS. Ecological Monographs, 2003, 73, 69-86.	2.4	365
10	The Significance of the Erosion-induced Terrestrial Carbon Sink. BioScience, 2007, 57, 337-346.	2.2	348
11	Temperature response of soil respiration largely unaltered with experimental warming. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13797-13802.	3.3	308
12	BioTIME: A database of biodiversity time series for the Anthropocene. Global Ecology and Biogeography, 2018, 27, 760-786.	2.7	289
13	Underestimating the Challenges of Avoiding a Ghastly Future. Frontiers in Conservation Science, 2021, 1, .	0.9	277
14	Global Warming and Soil Microclimate: Results from a Meadow-Warming Experiment. , 1995, 5, 132-150.		258
15	INTEGRATING EXPERIMENTAL AND GRADIENT METHODS IN ECOLOGICAL CLIMATE CHANGE RESEARCH. Ecology, 2004, 85, 904-916.	1.5	229
16	On Theory in Ecology. BioScience, 2014, 64, 701-710.	2.2	195
17	MAXIMUM ENTROPY AND THE STATE-VARIABLE APPROACH TO MACROECOLOGY. Ecology, 2008, 89, 2700-2711.	1.5	193
18	Biodiversity scales from plots to biomes with a universal speciesâ€“area curve. Ecology Letters, 2009, 12, 789-797.	3.0	172

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19	Maximum information entropy: a foundation for ecological theory. Trends in Ecology and Evolution, 2014, 29, 384-389.	4.2	170
20	The debt of nations and the distribution of ecological impacts from human activities. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1768-1773.	3.3	165
21	RESPONSE OF COMPLEX FOOD WEBS TO REALISTIC EXTINCTION SEQUENCES. Ecology, 2007, 88, 671-682.	1.5	164
22	RESPONSE OF PLANT PATHOGENS AND HERBIVORES TO A WARMING EXPERIMENT. Ecology, 2004, 85, 2570-2581.	1.5	151
23	The effect of experimental ecosystem warming on CO 2 fluxes in a montane meadow. Global Change Biology, 1999, 5, 125-141.	4.2	146
24	PLANT RESPONSES TO EXPERIMENTAL WARMING IN A MONTANE MEADOW. Ecology, 2001, 82, 637-648.	1.5	140
25	Persistence of soil organic matter in eroding versus depositional landform positions. Journal of Geophysical Research, 2012, 117, .	3.3	138
26	Dead wood biomass and turnover time, measured by radiocarbon, along a subalpine elevation gradient. Oecologia, 2004, 141, 641-651.	0.9	135
27	Linking soil organic matter dynamics and erosionâ€induced terrestrial carbon sequestration at different landform positions. Journal of Geophysical Research, 2008, 113, .	3.3	126
28	To feed the world in 2050 will require a global revolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14743-14744.	3.3	126
29	CLIMATE CHANGE: Equity and Greenhouse Gas Responsibility. Science, 2000, 289, 2287-2287.	6.0	123
30	Mutualism and Competition between Plants and Decomposers: Implications for Nutrient Allocation in Ecosystems. American Naturalist, 1993, 141, 829-846.	1.0	115
31	Plant community composition mediates both large transient decline and predicted long-term recovery of soil carbon under climate warming. Global Biogeochemical Cycles, 2002, 16, 3-1-3-18.	1.9	113
32	Climate change and extinction risk. Nature, 2004, 430, 34-34.	13.7	111
33	Human population as a dynamic factor in environmental degradation. Population and Environment, 2007, 28, 223-236.	1.3	111
34	Response of nitrogen cycling to simulated climate change: differential responses along a subalpine ecotone. Global Change Biology, 2001, 7, 193-210.	4.2	110
35	Dynamic and complex microclimate responses to warming and grazing manipulations. Global Change Biology, 2005, 11, 1440-1451.	4.2	108
36	Microbial community-level regulation explains soil carbon responses to long-term litter manipulations. Nature Communications, 2017, 8, 1223.	5.8	99

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37	Changes in flowering and abundance of Delphinium nuttallianum (Ranunculaceae) in response to a subalpine climate warming experiment. Global Change Biology, 2003, 9, 885-894.	4.2	93
38	Decline in Medicinal and Forage Species with Warming is Mediated by Plant Traits on the Tibetan Plateau. Ecosystems, 2008, 11, 775-789.	1.6	85
39	Convergent ecosystem responses to 23â€year ambient and manipulated warming link advancing snowmelt and shrub encroachment to transient and longâ€term climateâ€“soil carbon feedback. Global Change Biology, 2015, 21, 2349-2356.	4.2	83
40	Possible Effects of Acidic Deposition on a Rocky Mountain Population of the Tiger Salamander Ambystoma tigrtinum. Conservation Biology, 1989, 3, 149-158.	2.4	81
41	A THEORY OF SPATIAL STRUCTURE IN ECOLOGICAL COMMUNITIES AT MULTIPLE SPATIAL SCALES. Ecological Monographs, 2005, 75, 179-197.	2.4	81
42	TERRESTRIAL ECOSYSTEM FEEDBACKS TO GLOBAL CLIMATE CHANGE. Annual Review of Environment and Resources, 1997, 22, 75-118.	1.2	77
43	Responses of highâ€altitude graminoids and soil fungi to 20 years of experimental warming. Ecology, 2014, 95, 1918-1928.	1.5	75
44	Climate warming drives local extinction: Evidence from observation and experimentation. Science Advances, 2018, 4, eaaq1819.	4.7	74
45	Methane consumption by montane soils: implications for positive and negative feedback with climatic change. Biogeochemistry, 1996, 32, 53.	1.7	73
46	Effects of manipulated soil microclimate on mesofaunal biomass and diversity. Soil Biology and Biochemistry, 1996, 28, 313-322.	4.2	69
47	Missing feedbacks, asymmetric uncertainties, and the underestimation of future warming. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	64
48	COMPENSATORY RESPONSES TO LOSS OF WARMING-SENSITIVE PLANT SPECIES. Ecology, 2007, 88, 740-748.	1.5	58
49	Soil Erosion: Data Say C Sink. Science, 2008, 320, 178-179.	6.0	58
50	In situ photosynthetic freezing tolerance for plants exposed to a global warming manipulation in the Rocky Mountains, Colorado, USA. New Phytologist, 2004, 162, 331-341.	3.5	56
51	Enhanced growth of sagebrush (Artemisia tridentata) in response to manipulated ecosystem warming. Global Change Biology, 2003, 9, 736-742.	4.2	53
52	Tail of death and resurrection. Nature, 2003, 424, 1006-1007.	13.7	52
53	Species richness, endemism, and abundance patterns: tests of two fractal models in a serpentine grassland. Ecology Letters, 2003, 6, 919-928.	3.0	51
54	Upscaling biodiversity: estimating the speciesâ€“area relationship from small samples. Ecological Monographs, 2018, 88, 170-187.	2.4	49

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55	Reproductive and physiological responses to simulated climate warming for four subalpine species. New Phytologist, 2007, 173, 121-134.	3.5	46
56	SUBALPINE FOREST CARBON CYCLING: SHORT- AND LONG-TERM INFLUENCE OF CLIMATE AND SPECIES. , 2005, 15, 1984-1999.		45
57	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. Arctic Science, 2022, 8, 572-608.	0.9	43
58	High-temperature tolerance of Artemisia tridentata and Potentilla gracilis under a climate change manipulation. Oecologia, 1996, 108, 224-231.	0.9	41
59	Shifts in plant dominance control carbon-cycle responses to experimental warming and widespread drought. Environmental Research Letters, 2006, 1, 014001.	2.2	38
60	Consumptionâ€Based Conservation Targeting: Linking Biodiversity Loss to Upstream Demand through a Global Wildlife Footprint. Conservation Letters, 2017, 10, 531-538.	2.8	38
61	Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado. Environmental and Experimental Botany, 1997, 37, 115-123.	2.0	37
62	Self-Similarity and Clustering in the Spatial Distribution of Species. Science, 2000, 290, 671a-671.	6.0	37
63	Improved abundance prediction from presenceâ€“absence data. Global Ecology and Biogeography, 2009, 18, 1-10.	2.7	37
64	Crossing-Symmetric Bootstrap and Exponentially Falling Form Factors. Physical Review, 1968, 165, 1557-1564.	2.7	36
65	CONTROL OF LITTER DECOMPOSITION IN A SUBALPINE MEADOWâ€“SAGEBRUSH STEPPE ECOTONE UNDER CLIMATE CHANGE. , 2001, 11, 1206-1223.		35
66	Finite Size Scaling in Ecology. Physical Review Letters, 1999, 83, 4212-4214.	2.9	34
67	THE VALUE OF NULL THEORIES IN ECOLOGY. Ecology, 2004, 85, 1792-1794.	1.5	34
68	Biophysical and Biogeochemical Responses to Climate Change Depend on Dispersal and Migration. BioScience, 2006, 56, 407.	2.2	34
69	Title is missing!. Plant Ecology, 2000, 146, 195-204.	0.7	32
70	Beyond the speciesâ€“area relationship: improving macroecological extinction estimates. Methods in Ecology and Evolution, 2014, 5, 1-8.	2.2	31
71	On Reauthorization of the Endangered Species Act. Conservation Biology, 1994, 8, 1-3.	2.4	27
72	Effect of community assembly and primary succession on the species-area relationship in disturbed ecosystems. Ecography, 2006, 29, 866-872.	2.1	26

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73	Effects of Long-term Experimental Warming on Aphid Density in the Field. Journal of the Kansas Entomological Society, 2007, 80, 156-168.	0.1	26
74	Food security requires a new revolution. International Journal of Environmental Studies, 2015, 72, 908-920.	0.7	26
75	Empirical tests of within- and across-species energetics in a diverse plant community. Ecology, 2014, 95, 2815-2825.	1.5	25
76	Changes in ant community composition caused by 20 years of experimental warming vs. 13 years of natural climate shift. Ecosphere, 2014, 5, 1-17.	1.0	25
77	Predicting extinction debt from community patterns. Ecology, 2015, 96, 2127-2136.	1.5	25
78	Scale collapse and the emergence of the power law speciesâ€“area relationship. Global Ecology and Biogeography, 2015, 24, 883-895.	2.7	25
79	Building up biogeography: Pattern to process. Journal of Biogeography, 2018, 45, 1223-1230.	1.4	25
80	Mixing Effects forÏ†,Ï‰, andÏ0Mesons. Physical Review, 1964, 135, B459-B466.	2.7	24
81	A NEW CLASS OF MODELS OF SPATIAL DISTRIBUTION. Ecological Monographs, 2007, 77, 269-284.	2.4	24
82	Inferring Regional-Scale Species Diversity from Small-Plot Censuses. PLoS ONE, 2015, 10, e0117527.	1.1	24
83	IMPACT OF CURVE CONSTRUCTION AND COMMUNITY DYNAMICS ON THE SPECIESâ€“TIME RELATIONSHIP. Ecology, 2007, 88, 2145-2153.	1.5	23
84	Selection of micro-organisms in a spatially explicit environment and implications for plant access to nitrogen. Journal of Ecology, 1998, 86, 841-853.	1.9	22
85	Selfâ€Similarity, the Power Law Form of the Speciesâ€Area Relationship, and a Probability Rule: A Reply to Maddux. American Naturalist, 2004, 163, 627-633.	1.0	22
86	Disturbance macroecology: a comparative study of community structure metrics in a highâ€severity disturbance regime. Ecosphere, 2020, 11, e03022.	1.0	21
87	Integrating macroecological metrics and community taxonomic structure. Ecology Letters, 2015, 18, 1068-1077.	3.0	20
88	Ecosystem Climate Manipulations. , 2000, , 353-369.		20
89	A Decision Matrix Approach to Evaluating the Impacts of Land-Use Activities Undertaken to Mitigate Climate Change. Climatic Change, 2004, 63, 247-257.	1.7	19
90	Kinematic Constraints for Infinitely Rising Regge Trajectories. Physical Review, 1967, 164, 1841-1844.	2.7	17

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91	Taxon Categories and the Universal Species-Area Relationship. American Naturalist, 2013, 181, 282-287.	1.0	17
92	Asymptotic Vertex Function in a Crossing-Symmetric Bootstrap Model of the Hadrons. Physical Review, 1968, 171, 1825-1831.	2.7	16
93	Carbon Cycle Uncertainty Increases Climate Change Risks and Mitigation Challenges. Journal of Climate, 2012, 25, 7660-7668.	1.2	16
94	Metabolic partitioning across individuals in ecological communities. Global Ecology and Biogeography, 2017, 26, 993-997.	2.7	14
95	Incipient criticality in ecological communities. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18714-18717.	3.3	13
96	DynaMETE: a hybrid MaxEntâ€plusâ€mechanism theory of dynamic macroecology. Ecology Letters, 2021, 24, 935-949.	3.0	13
97	Bootstrap Prediction for the Wide-Angle Proton-Proton Scattering Amplitude. Physical Review, 1969, 184, 1948-1950.	2.7	11
98	Feedbacks, thresholds and synergies in global change: population as a dynamic factor. Biodiversity and Conservation, 1996, 5, 1069-1083.	1.2	11
99	The shape of a species' spatial abundance distribution. Global Ecology and Biogeography, 2012, 21, 1167-1178.	2.7	11
100	On the Importance of First Principles in Ecological Theory Development. BioScience, 2015, 65, 342-343.	2.2	11
101	Flowering in the greenhouse. Nature, 2012, 485, 448-449.	13.7	10
102	Off-Mass-Shell Theory of the Bootstrap and Composite-Particle Scattering. Physical Review, 1969, 184, 1936-1947.	2.7	9
103	Biophysical limits, women's rights and the climate encyclical. Nature Climate Change, 2015, 5, 904-905.	8.1	9
104	Possible Enhancement of Two-Photon-Exchange Effects in Large-Momentum-Transfer Electron-Proton Scattering. Physical Review, 1968, 171, 1832-1833.	2.7	8
105	Hubbell's local abundance distribution: insights from a simple colonization rule. Oikos, 2010, 119, 379-383.	1.2	8
106	The Use and Misuse of Species-Area Relationships in Predicting Climate-Driven Extinction. , 2012, , 73-86.		8
107	Possible Bootstrap Origin of Thermodynamic Inclusive Spectra. Physical Review D, 1972, 6, 2522-2530.	1.6	7
108	Population dynamics and competitive outcome derive from resource allocation statistics: The governing influence of the distinguishability of individuals. Theoretical Population Biology, 2015, 105, 53-63.	0.5	7

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109	Gastrointestinal Dysbiosis. Evolution, Medicine and Public Health, 2014, 2014, 163-163.	1.1	6
110	Shifting macroecological patterns and static theory failure in a stressed alpine plant community. Ecosphere, 2021, 12, e03548.	1.0	6
111	Land use change through the lens of macroecology: insights from Azorean arthropods and the maximum entropy theory of ecology. Ecography, 2022, 2022, .	2.1	6
112	Unified Treatment of Hadronic Processes Involving High-Mass Virtual Photons. Physical Review, 1969, 188, 2372-2377.	2.7	5
113	Maximum Entropy and Theory Construction: A Reply to Favretti. Entropy, 2018, 20, 285.	1.1	4
114	Relating the Strength of Density Dependence and the Spatial Distribution of Individuals. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	4
115	Mass Perturbations in a Bethe-Salpeter-Equation Model of the Nucleon. Physical Review, 1967, 158, 1521-1529.	2.7	3
116	Theory of Large-Momentum-Transfer Hadron Production in High-Energy, Inelastic Hadron-Hadron Scattering. Physical Review D, 1970, 1, 2603-2609.	1.6	3
117	Ecology must seek universal principles. Nature, 2014, 508, 458-458.	13.7	3
118	A method of alternating characteristics with application to advection-dominated environmental systems. Computational Geosciences, 2018, 22, 851-865.	1.2	3
119	Pessimism on the Food Front. Sustainability, 2018, 10, 1120.	1.6	3
120	Reflections on 27 years of manipulated ecosystem warming in a subalpine meadow. , 2019, , 1-27.		3
121	Response: Commentary: Underestimating the Challenges of Avoiding a Ghastly Future. Frontiers in Conservation Science, 2021, 2, .	0.9	3
122	WATER CONSTRAINTS ON ENERGY DEVELOPMENT: A FRAMEWORK FOR ANALYSIS. Journal of the American Water Resources Association, 1983, 19, 51-57.	1.0	2
123	Acidification and Salamander Recruitment. BioScience, 1994, 44, 125-126.	2.2	2
124	The Phenology of Wilderness Use: Backcountry Recreation in a Changing Climate. Weather, Climate, and Society, 2018, 10, 209-223.	0.5	2
125	Bad News: Is It True?. Science, 1980, 210, 1296-1301.	6.0	2
126	Arctic aerosol and Arctic climate: Results from an energy budget model. Climatic Change, 1988, 13, 161-189.	1.7	1

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127	SUBALPINE MEADOW FLOWERING PHENOLOGY RESPONSES TO CLIMATE CHANGE: INTEGRATING EXPERIMENTAL AND GRADIENT METHODS. , 2003, 73, 69.		1
128	Comment on High-Energy Wide-Angle Proton Compton Scattering. Physical Review D, 1970, 1, 1512-1512.	1.6	0
129	A celebration of birds. BioScience, 1989, 39, 492-493.	2.2	0
130	Kent State and Bakersfield. Visual Communication Quarterly, 2008, 15, 266-271.	0.2	0
131	The Speciesâ€“Area Relationship: Idiosyncratic or Produced by â€˜Laws Acting around Usâ€™?. , 2021, , 227-258.		0