

# Harold A Mooney

## List of Publications by Year in descending order

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100  
papers

44,714  
citations

18887

64  
h-index

36203

101  
g-index

105  
all docs

105  
docs citations

105  
times ranked

47178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Domination of Earth's Ecosystems. <i>Science</i> , 1997, 277, 494-499.	6.0	7,341
2	Global Biodiversity Scenarios for the Year 2100&nbsp;. <i>Science</i> , 2000, 287, 1770-1774.	6.0	7,077
3	Effect of aquaculture on world fish supplies. <i>Nature</i> , 2000, 405, 1017-1024.	13.7	2,310
4	Terrestrial ecosystem production: A process model based on global satellite and surface data. <i>Global Biogeochemical Cycles</i> , 1993, 7, 811-841.	1.9	2,290
5	ENVIRONMENT AND DEVELOPMENT: Sustainability Science. <i>Science</i> , 2001, 292, 641-642.	6.0	2,169
6	Shifting plant phenology in response to global change. <i>Trends in Ecology and Evolution</i> , 2007, 22, 357-365.	4.2	1,746
7	Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1305-1312.	3.3	1,736
8	The IPBES Conceptual Framework "connecting nature and people. <i>Current Opinion in Environmental Sustainability</i> , 2015, 14, 1-16.	3.1	1,658
9	Ecosystem services in decision making: time to deliver. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 21-28.	1.9	1,490
10	Does global change increase the success of biological invaders?. <i>Trends in Ecology and Evolution</i> , 1999, 14, 135-139.	4.2	1,254
11	Invasive species, ecosystem services and human well-being. <i>Trends in Ecology and Evolution</i> , 2009, 24, 497-504.	4.2	1,026
12	Viewing invasive species removal in a whole-ecosystem context. <i>Trends in Ecology and Evolution</i> , 2001, 16, 454-459.	4.2	929
13	Systems integration for global sustainability. <i>Science</i> , 2015, 347, 1258832.	6.0	820
14	Effects of Soil Resources on Plant Invasion and Community Structure in Californian Serpentine Grassland. <i>Ecology</i> , 1990, 71, 478-491.	1.5	639
15	Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2015, 14, 76-85.	3.1	559
16	Should agricultural policies encourage land sparing or wildlife-friendly farming?. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 380-385.	1.9	503
17	Grassland Responses to Global Environmental Changes Suppressed by Elevated CO <sub>2</sub> . <i>Science</i> , 2002, 298, 1987-1990.	6.0	498
18	The fate of carbon in grasslands under carbon dioxide enrichment. <i>Nature</i> , 1997, 388, 576-579.	13.7	444

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19	ECOLOGY: Enhanced: Millennium Ecosystem Assessment: Research Needs. <i>Science</i> , 2006, 314, 257-258.	6.0	442
20	Invasive alien species in an era of globalization. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 199-208.	1.9	418
21	Extinction, Substitution, and Ecosystem Services. <i>BioScience</i> , 1983, 33, 248-254.	2.2	402
22	Diverse responses of phenology to global changes in a grassland ecosystem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13740-13744.	3.3	397
23	Biodiversity, climate change, and ecosystem services. <i>Current Opinion in Environmental Sustainability</i> , 2009, 1, 46-54.	3.1	337
24	GRASSLAND RESPONSES TO THREE YEARS OF ELEVATED TEMPERATURE, CO <sub>2</sub> , PRECIPITATION, AND N DEPOSITION. <i>Ecological Monographs</i> , 2003, 73, 585-604.	2.4	326
25	Intervention Ecology: Applying Ecological Science in the Twenty-first Century. <i>BioScience</i> , 2011, 61, 442-450.	2.2	323
26	Ecosystem Consequences of Changing Biodiversity. <i>BioScience</i> , 1998, 48, 45-52.	2.2	319
27	AGRICULTURE: Losing the Links Between Livestock and Land. <i>Science</i> , 2005, 310, 1621-1622.	6.0	315
28	Responses of Grassland Production to Single and Multiple Global Environmental Changes. <i>PLoS Biology</i> , 2005, 3, e319.	2.6	308
29	ECOLOGY:Nature's Subsidies to Shrimp and Salmon Farming. , 1998, 282, 883-884.		300
30	Evolution of natural and social science interactions in global change research programs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3665-3672.	3.3	277
31	Additive effects of simulated climate changes, elevated CO <sub>2</sub> , and nitrogen deposition on grassland diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7650-7654.	3.3	266
32	Relationships Among Leaf Construction Cost, Leaf Longevity, and Light Environment in Rain-Forest Plants of the Genus <i>Piper</i> . <i>American Naturalist</i> , 1989, 133, 198-211.	1.0	260
33	Reduced nitrate leaching and enhanced denitrifier activity and efficiency in organically fertilized soils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4522-4527.	3.3	257
34	The Biodiversity and Ecosystem Services Science-Policy Interface. <i>Science</i> , 2011, 331, 1139-1140.	6.0	252
35	Effects of Rainfall Variability and Gopher Disturbance on Serpentine Annual Grassland Dynamics. <i>Ecology</i> , 1991, 72, 59-68.	1.5	217
36	Endomycorrhizal Role for Interspecific Transfer of Phosphorus in a Community of Annual Plants. <i>Science</i> , 1982, 217, 941-943.	6.0	209

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37	Long-term biological consequences of nuclear war. <i>Science</i> , 1983, 222, 1293-1300.	6.0	176
38	Photosynthetic Acclimation to Temperature in the Desert Shrub, <i>Larrea divaricata</i> . <i>Plant Physiology</i> , 1978, 61, 406-410.	2.3	172
39	International Trade in Meat: The Tip of the Pork Chop. <i>Ambio</i> , 2007, 36, 622-629.	2.8	161
40	Finding Common Ground for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2012, 62, 503-507.	2.2	161
41	The Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services: moving a step closer to an IPCC-like mechanism for biodiversity. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 9-14.	3.1	152
42	Photosystem II Photosynthetic Unit Sizes from Fluorescence Induction in Leaves. <i>Plant Physiology</i> , 1981, 67, 570-579.	2.3	150
43	A global distribution of biodiversity inferred from climatic constraints: results from a process-based modelling study. <i>Global Change Biology</i> , 2000, 6, 507-523.	4.2	147
44	A Global System for Monitoring Ecosystem Service Change. <i>BioScience</i> , 2012, 62, 977-986.	2.2	142
45	Confronting the human dilemma. <i>Nature</i> , 2005, 434, 561-562.	13.7	129
46	Importing food damages domestic environment: Evidence from global soybean trade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5415-5419.	3.3	127
47	Elevated CO <sub>2</sub> increases belowground respiration in California grasslands. <i>Oecologia</i> , 1996, 108, 130-137.	0.9	125
48	Building a global observing system for biodiversity. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 139-146.	3.1	125
49	Biodiversity targets after 2010. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 3-8.	3.1	124
50	Seasonal variation in the production of tannins and cyanogenic glucosides in the chaparral shrub, <i>Heteromeles arbutifolia</i> . <i>Oecologia</i> , 1974, 15, 65-76.	0.9	123
51	LONG-TERM DATA REVEAL COMPLEX DYNAMICS IN GRASSLAND IN RELATION TO CLIMATE AND DISTURBANCE. <i>Ecological Monographs</i> , 2007, 77, 545-568.	2.4	119
52	Mangrove Biodiversity and Ecosystem Function. <i>Global Ecology and Biogeography Letters</i> , 1998, 7, 3.	0.6	106
53	Herbivory on <i>Diplacus aurantiacus</i> shrubs in sun and shade. <i>Oecologia</i> , 1984, 64, 173-176.	0.9	104
54	Broadening the Extinction Debate: Population Deletions and Additions in California and Western Australia. <i>Conservation Biology</i> , 1998, 12, 271-283.	2.4	101

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55	Carbon-nutrient balance hypothesis in within-species phytochemical variation of <i>Salix lasiolepis</i> . <i>Journal of Chemical Ecology</i> , 1989, 15, 1117-1131.	0.9	97
56	Ecosystem services, targets, and indicators for the conservation and sustainable use of biodiversity. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 512-520.	1.9	91
57	Mechanism of monoterpene volatilization in <i>Salvia mellifera</i> . <i>Phytochemistry</i> , 1975, 14, 2555-2557.	1.4	90
58	ECOLOGY:International Ecosystem Assessment. <i>Science</i> , 1999, 286, 685-686.	6.0	89
59	Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs. <i>Current Opinion in Environmental Sustainability</i> , 2016, 19, 160-168.	3.1	89
60	Ecology of SO <sub>2</sub> resistance: I. Effects of fumigations on gas exchange of deciduous and evergreen shrubs. <i>Oecologia</i> , 1979, 44, 290-295.	0.9	79
61	A global test of ecoregions. <i>Nature Ecology and Evolution</i> , 2018, 2, 1889-1896.	3.4	79
62	The IPBES Global Assessment: Pathways to Action. <i>Trends in Ecology and Evolution</i> , 2020, 35, 407-414.	4.2	77
63	Controls of biomass partitioning between roots and shoots: Atmospheric CO <sub>2</sub> enrichment and the acquisition and allocation of carbon and nitrogen in wild radish. <i>Oecologia</i> , 1992, 89, 580-587.	0.9	68
64	Interactive Effects of Fire, Elevated Carbon Dioxide, Nitrogen Deposition, and precipitation on a California Annual Grassland. <i>Ecosystems</i> , 2006, 9, 1066-1075.	1.6	67
65	Altithermal Timberline Advance in Western United States. <i>Nature</i> , 1967, 213, 980-982.	13.7	66
66	Ecology of SO <sub>2</sub> resistance: II. Photosynthetic changes of shrubs in relation to SO <sub>2</sub> absorption and stomatal behavior. <i>Oecologia</i> , 1979, 44, 296-302.	0.9	66
67	WATER TRANSPORT PROPERTIES OF VINE AND TREE STEMS IN A TROPICAL DECIDUOUS FOREST. <i>American Journal of Botany</i> , 1990, 77, 742-749.	0.8	65
68	Developing a common strategy for integrative global environmental change research and outreach: the Earth System Science Partnership (ESSP). <i>Current Opinion in Environmental Sustainability</i> , 2009, 1, 4-13.	3.1	65
69	International cooperation in the solution to trade-related invasive species risks. <i>Annals of the New York Academy of Sciences</i> , 2010, 1195, 198-212.	1.8	62
70	Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012-2020. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 101-105.	3.1	62
71	The ecosystem-service chain and the biological diversity crisis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 31-39.	1.8	59
72	Recent Climatic Change and Development of the Bristlecone Pine ( <i>P. longaeva</i> Bailey) Krummholz Zone, Mt. Washington, Nevada. <i>Arctic and Alpine Research</i> , 1972, 4, 61.	1.3	58

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73	Volatilisation of terpenes from <i>Salvia mellifera</i> . <i>Nature</i> , 1974, 252, 119-121.	13.7	55
74	Introducing the Scientific Consensus on Maintaining Humanity's Life Support Systems in the 21st Century: Information for Policy Makers. <i>Infrastructure Asset Management</i> , 2014, 1, 78-109.	1.2	55
75	Integrating agroecological production in a robust post-2020 Global Biodiversity Framework. <i>Nature Ecology and Evolution</i> , 2020, 4, 1150-1152.	3.4	54
76	Greenhouse economics: learn before you leap. <i>Ecological Economics</i> , 1991, 4, 1-10.	2.9	49
77	Parallel evolution of leaf pubescence in <i>Encelia</i> in coastal deserts of North and South America. <i>Oecologia</i> , 1981, 49, 38-41.	0.9	44
78	Biodiversity Policy Challenges. <i>Science</i> , 2009, 325, 1474-1474.	6.0	38
79	Ecology of SO <sub>2</sub> resistance: III. Metabolic changes of C <sub>3</sub> and C <sub>4</sub> <i>Atriplex</i> species due to SO <sub>2</sub> fumigations. <i>Oecologia</i> , 1980, 46, 49-54.	0.9	35
80	A system for controlling the root and shoot environment for plant growth studies. <i>Environmental and Experimental Botany</i> , 1987, 27, 365-377.	2.0	35
81	Seasonal patterns of acid fluctuations and resource storage in the arborescent cactus <i>Opuntia excelsa</i> in relation to light availability and size. <i>Oecologia</i> , 1992, 92, 166-171.	0.9	35
82	The millennium ecosystem assessment: what is it all about?. <i>Trends in Ecology and Evolution</i> , 2004, 19, 221-224.	4.2	34
83	The Millennium Ecosystem Assessment: testing the limits of interdisciplinary and multi-scale science. <i>Current Opinion in Environmental Sustainability</i> , 2016, 19, 40-46.	3.1	32
84	Carbon dioxide exchange of plants in natural environments. <i>Botanical Review</i> , The, 1972, 38, 455-469.	1.7	30
85	Lack of nitrogen cycling in the Atacama Desert. <i>Nature</i> , 1992, 359, 316-318.	13.7	30
86	National indicators for observing ecosystem service change. <i>Global Environmental Change</i> , 2015, 35, 12-21.	3.6	28
87	Allocation to reproduction in the chaparral shrub, <i>Diplacus aurantiacus</i> . <i>Oecologia</i> , 1985, 66, 309-316.	0.9	26
88	Effects of multiple stresses on radish growth and resource allocation. <i>Oecologia</i> , 1989, 81, 124-131.	0.9	24
89	The United States, China, and invasive species: present status and future prospects. <i>Biological Invasions</i> , 2006, 8, 1589-1593.	1.2	24
90	Herbivore control of annual grassland composition in current and future environments. <i>Ecology Letters</i> , 2006, 9, 86-94.	3.0	23

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91	GASTROPOD HERBIVORY IN RESPONSE TO ELEVATED CO <sub>2</sub> AND N ADDITION IMPACTS PLANT COMMUNITY COMPOSITION. <i>Ecology</i> , 2006, 87, 686-694.	1.5	22
92	The Shenzhen Declaration on Plant Sciences—Uniting plant sciences and society to build a green, sustainable Earth. <i>Journal of Systematics and Evolution</i> , 2017, 55, 415-416.	1.6	20
93	Effects of CO <sub>2</sub> and nutrient enrichment on tissue quality of two California annuals. <i>Oecologia</i> , 1996, 107, 433-440.	0.9	19
94	Carbon Dynamics of an Old-growth Forest. <i>Ecosystems</i> , 2004, 7, 421.	1.6	19
95	Revegetation of serpentine substrates: Response to phosphate application. <i>Environmental Management</i> , 1987, 11, 563-567.	1.2	17
96	The Global Invasive Species Program (GISP). <i>Biological Invasions</i> , 1999, 1, 97-98.	1.2	15
97	The Shenzhen declaration on plant sciences—Uniting plant sciences and society to build a green, sustainable Earth. <i>Plants People Planet</i> , 2019, 1, 59-61.	1.6	12
98	Restoring Native Forest Understory: The Influence of Ferns and Light in a Hawaiian Experiment. <i>Sustainability</i> , 2013, 5, 1317-1339.	1.6	4
99	Fauna in decline: Global assessments. <i>Science</i> , 2014, 345, 885-885.	6.0	1
100	The Shenzhen Declaration on Plant Sciences. <i>Taxon</i> , 2017, 66, 1261-1262.	0.4	1