# Harold A Mooney

List of Publications by Year
in descending order



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|---|---|---|---|
| 100 papers | 44,714 citations | 16451 64 h-index | 31849 101 g-index |
| 105 all docs | 105 docs citations | 105 times ranked | 41962 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Human Domination of Earth's Ecosystems. Science, 1997, 277, 494-499. | 12.6 | 7,341 |
| 2 | Global Biodiversity Scenarios for the Year 2100 . Science, 2000, 287, 1770-1774. | 12.6 | 7,077 |
| 3 | Effect of aquaculture on world fish supplies. Nature, 2000, 405, 1017-1024. | 27.8 | 2,310 |
| 4 | Terrestrial ecosystem production: A process model based on global satellite and surface data. Global Biogeochemical Cycles, 1993, 7, 811-841. | 4.9 | 2,290 |
| 5 | ENVIRONMENT AND DEVELOPMENT: Sustainability Science. Science, 2001, 292, 641-642. | 12.6 | 2,169 |
| 6 | Shifting plant phenology in response to global change. Trends in Ecology and Evolution, 2007, 22, 357-365. | 8.7 | 1,746 |
| 7 | Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1305-1312. | 7.1 | 1,736 |
| 8 | The IPBES Conceptual Framework â€" connecting nature and people. Current Opinion in Environmental Sustainability, 2015, 14, 1-16. | 6.3 | 1,658 |
| 9 | Ecosystem services in decision making: time to deliver. Frontiers in Ecology and the Environment, 2009, 7, 21-28. | 4.0 | 1,490 |
| 10 | Does global change increase the success of biological invaders?. Trends in Ecology and Evolution, 1999, 14, 135-139. | 8.7 | 1,254 |
| 11 | Invasive species, ecosystem services and human well-being. Trends in Ecology and Evolution, 2009, 24, 497-504. | 8.7 | 1,026 |
| 12 | Viewing invasive species removal in a whole-ecosystem context. Trends in Ecology and Evolution, 2001, 16, 454-459. | 8.7 | 929 |
| 13 | Systems integration for global sustainability. Science, 2015, 347, 1258832. | 12.6 | 820 |
| 14 | Effects of Soil Resources on Plant Invasion and Community Structure in Californian Serpentine Grassland. Ecology, 1990, 71, 478-491. | 3.2 | 639 |
| 15 | Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability. Current Opinion in Environmental Sustainability, 2015, 14, 76-85. | 6.3 | 559 |
| 16 | Should agricultural policies encourage land sparing or wildlife-friendly farming?. Frontiers in Ecology and the Environment, 2008, 6, 380-385. | 4.0 | 503 |
| 17 | Grassland Responses to Global Environmental Changes Suppressed by Elevated CO2. Science, 2002, 298, 1987-1990. | 12.6 | 498 |
| 18 | The fate of carbon in grasslands under carbon dioxide enrichment. Nature, 1997, 388, 576-579. | 27.8 | 444 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | ECOLOGY: Enhanced: Millennium Ecosystem Assessment: Research Needs. Science, 2006, 314, 257-258. | 12.6 | 442 |
| 20 | Invasive alien species in an era of globalization. Frontiers in Ecology and the Environment, 2007, 5, 199-208. | 4.0 | 418 |
| 21 | Extinction, Substitution, and Ecosystem Services. BioScience, 1983, 33, 248-254. | 4.9 | 402 |
| 22 | Diverse responses of phenology to global changes in a grassland ecosystem. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13740-13744. | 7.1 | 397 |
| 23 | Biodiversity, climate change, and ecosystem services. Current Opinion in Environmental Sustainability, 2009, 1, 46-54. | 6.3 | 337 |
| 24 | GRASSLAND RESPONSES TO THREE YEARS OF ELEVATED TEMPERATURE, CO2, PRECIPITATION, AND N DEPOSITION. Ecological Monographs, 2003, 73, 585-604. | 5.4 | 326 |
| 25 | Intervention Ecology: Applying Ecological Science in the Twenty-first Century. BioScience, 2011, 61, 442-450. | 4.9 | 323 |
| 26 | Ecosystem Consequences of Changing Biodiversity. BioScience, 1998, 48, 45-52. | 4.9 | 319 |
| 27 | AGRICULTURE: Losing the Links Between Livestock and Land. Science, 2005, 310, 1621-1622. | 12.6 | 315 |
| 28 | Responses of Grassland Production to Single and Multiple Global Environmental Changes. PLoS Biology, 2005, 3, e319. | 5.6 | 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. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3665-3672. | 7.1 | 277 |
| 31 | Additive effects of simulated climate changes, elevated CO2, and nitrogen deposition on grassland diversity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7650-7654. | 7.1 | 266 |
| 32 | Relationships Among Leaf Construction Cost, Leaf Longevity, and Light Environment in Rain-Forest Plants of the Genus Piper. American Naturalist, 1989, 133, 198-211. | 2.1 | 260 |
| 33 | Reduced nitrate leaching and enhanced denitrifier activity and efficiency in organically fertilized soils. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4522-4527. | 7.1 | 257 |
| 34 | The Biodiversity and Ecosystem Services Science-Policy Interface. Science, 2011, 331, 1139-1140. | 12.6 | 252 |
| 35 | Effects of Rainfall Variability and Gopher Disturbance on Serpentine Annual Grassland Dynamics. Ecology, 1991, 72, 59-68. | 3.2 | 217 |
| 36 | Endomycorrhizal Role for Interspecific Transfer of Phosphorus in a Community of Annual Plants. Science, 1982, 217, 941-943. | 12.6 | 209 |

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|---|---|---|---|
| 37 | Long-term biological consequences of nuclear war. Science, 1983, 222, 1293-1300. | 12.6 | 176 |
| 38 | Photosynthetic Acclimation to Temperature in the Desert Shrub, Larrea divaricata. Plant Physiology, 1978, 61, 406-410. | 4.8 | 172 |
| 39 | International Trade in Meat: The Tip of the Pork Chop. Ambio, 2007, 36, 622-629. | 5.5 | 161 |
| 40 | Finding Common Ground for Biodiversity and Ecosystem Services. BioScience, 2012, 62, 503-507. | 4.9 | 161 |
| 41 | The Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services: moving a step closer to an IPCC-like mechanism for biodiversity. Current Opinion in Environmental Sustainability, 2010, 2, 9-14. | 6.3 | 152 |
| 42 | Photosystem II Photosynthetic Unit Sizes from Fluorescence Induction in Leaves. Plant Physiology, 1981, 67, 570-579. | 4.8 | 150 |
| 43 | A global distribution of biodiversity inferred from climatic constraints: results from a process-based modelling study. Global Change Biology, 2000, 6, 507-523. | 9.5 | 147 |
| 44 | A Global System for Monitoring Ecosystem Service Change. BioScience, 2012, 62, 977-986. | 4.9 | 142 |
| 45 | Confronting the human dilemma. Nature, 2005, 434, 561-562. | 27.8 | 129 |
| 46 | Importing food damages domestic environment: Evidence from global soybean trade. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5415-5419. | 7.1 | 127 |
| 47 | Elevated CO2 increases belowground respiration in California grasslands. Oecologia, 1996, 108, 130-137. | 2.0 | 125 |
| 48 | Building a global observing system for biodiversity. Current Opinion in Environmental Sustainability, 2012, 4, 139-146. | 6.3 | 125 |
| 49 | Biodiversity targets after 2010. Current Opinion in Environmental Sustainability, 2010, 2, 3-8. | 6.3 | 124 |
| 50 | Seasonal variation in the production of tannins and cyanogenic glucosides in the chaparral shrub, Heteromeles arbutifolia. Oecologia, 1974, 15, 65-76. | 2.0 | 123 |
| 51 | LONG-TERM DATA REVEAL COMPLEX DYNAMICS IN GRASSLAND IN RELATION TO CLIMATE AND DISTURBANCE. Ecological Monographs, 2007, 77, 545-568. | 5.4 | 119 |
| 52 | Mangrove Biodiversity and Ecosystem Function. Global Ecology and Biogeography Letters, 1998, 7, 3. | 0.6 | 106 |
| 53 | Herbivory on Diplacus aurantiacus shrubs in sun and shade. Oecologia, 1984, 64, 173-176. | 2.0 | 104 |
| 54 | Broadening the Extinction Debate: Population Deletions and Additions in California and Western Australia. Conservation Biology, 1998, 12, 271-283. | 4.7 | 101 |

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|---|---|---|---|
| 55 | Carbon-nutrient balance hypothesis in within-species phytochemical variation ofSalix lasiolepis. Journal of Chemical Ecology, 1989, 15, 1117-1131. | 1.8 | 97 |
| 56 | Ecosystem services, targets, and indicators for the conservation and sustainable use of biodiversity. Frontiers in Ecology and the Environment, 2011, 9, 512-520. | 4.0 | 91 |
| 57 | Mechanism of monoterpene volatilization in Salvia mellifera. Phytochemistry, 1975, 14, 2555-2557. | 2.9 | 90 |
| 58 | ECOLOGY:International Ecosystem Assessment. Science, 1999, 286, 685-686. | 12.6 | 89 |
| 59 | Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs. Current Opinion in Environmental Sustainability, 2016, 19, 160-168. | 6.3 | 89 |
| 60 | Ecology of SO2 resistance: I. Effects of fumigations on gas exchange of deciduous and evergreen shrubs. Oecologia, 1979, 44, 290-295. | 2.0 | 79 |
| 61 | A global test of ecoregions. Nature Ecology and Evolution, 2018, 2, 1889-1896. | 7.8 | 79 |
| 62 | The IPBES Global Assessment: Pathways to Action. Trends in Ecology and Evolution, 2020, 35, 407-414. | 8.7 | 77 |
| 63 | Controls of biomass partitioning between roots and shoots: Atmospheric CO2 enrichment and the acquisition and allocation of carbon and nitrogen in wild radish. Oecologia, 1992, 89, 580-587. | 2.0 | 68 |
| 64 | Interactive Effects of Fire, Elevated Carbon Dioxide, Nitrogen Deposition, and precipitation on a California Annual Grassland. Ecosystems, 2006, 9, 1066-1075. | 3.4 | 67 |
| 65 | Altithermal Timberline Advance in Western United States. Nature, 1967, 213, 980-982. | 27.8 | 66 |
| 66 | Ecology of SO2 resistance: II. Photosynthetic changes of shrubs in relation to SO2 absorption and stomatal behavior. Oecologia, 1979, 44, 296-302. | 2.0 | 66 |
| 67 | WATER TRANSPORT PROPERTIES OF VINE AND TREE STEMS IN A TROPICAL DECIDUOUS FOREST. American Journal of Botany, 1990, 77, 742-749. | 1.7 | 65 |
| 68 | Developing a common strategy for integrative global environmental change research and outreach: the Earth System Science Partnership (ESSP). Current Opinion in Environmental Sustainability, 2009, 1, 4-13. | 6.3 | 65 |
| 69 | International cooperation in the solution to tradeâ€related invasive species risks<sup>a</sup>. Annals of the New York Academy of Sciences, 2010, 1195, 198-212. | 3.8 | 62 |
| 70 | Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012â€“20. Current Opinion in Environmental Sustainability, 2012, 4, 101-105. | 6.3 | 62 |
| 71 | The ecosystem-service chain and the biological diversity crisis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 31-39. | 4.0 | 59 |
| 72 | Recent Climatic Change and Development of the Bristlecone Pine (P. longaeva Bailey) Krummholz Zone, Mt. Washington, Nevada. Arctic and Alpine Research, 1972, 4, 61. | 1.3 | 58 |

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|---|---|---|---|
| 73 | Volatilisation of terpenes from Salvia mellifera. Nature, 1974, 252, 119-121. | 27.8 | 55 |
| 74 | Introducing the Scientific Consensus on Maintaining Humanityâ€™s Life Support Systems in the 21st Century: Information for Policy Makers. Infrastructure Asset Management, 2014, 1, 78-109. | 1.6 | 55 |
| 75 | Integrating agroecological production in a robust post-2020 Global Biodiversity Framework. Nature Ecology and Evolution, 2020, 4, 1150-1152. | 7.8 | 54 |
| 76 | Greenhouse economics: learn before you leap. Ecological Economics, 1991, 4, 1-10. | 5.7 | 49 |
| 77 | Parallel evolution of leaf pubescence in Encelia in coastal deserts of North and South America. Oecologia, 1981, 49, 38-41. | 2.0 | 44 |
| 78 | Biodiversity Policy Challenges. Science, 2009, 325, 1474-1474. | 12.6 | 38 |
| 79 | Ecology of SO2 resistance: III. Metabolic changes of C3 and C4 Atriplex species due to SO2 fumigations. Oecologia, 1980, 46, 49-54. | 2.0 | 35 |
| 80 | A system for controlling the root and shoot environment for plant growth studies. Environmental and Experimental Botany, 1987, 27, 365-377. | 4.2 | 35 |
| 81 | Seasonal patterns of acid fluctuations and resource storage in the arborescent cactus Opuntia excelsa in relation to light availability and size. Oecologia, 1992, 92, 166-171. | 2.0 | 35 |
| 82 | The millennium ecosystem assessment: what is it all about?. Trends in Ecology and Evolution, 2004, 19, 221-224. | 8.7 | 34 |
| 83 | The Millennium Ecosystem Assessment: testing the limits of interdisciplinary and multi-scale science. Current Opinion in Environmental Sustainability, 2016, 19, 40-46. | 6.3 | 32 |
| 84 | Carbon dioxide exchange of plants in natural environments. Botanical Review, The, 1972, 38, 455-469. | 3.9 | 30 |
| 85 | Lack of nitrogen cycling in the Atacama Desert. Nature, 1992, 359, 316-318. | 27.8 | 30 |
| 86 | National indicators for observing ecosystem service change. Global Environmental Change, 2015, 35, 12-21. | 7.8 | 28 |
| 87 | Allocation to reproduction in the chaparral shrub, Diplacus aurantiacus. Oecologia, 1985, 66, 309-316. | 2.0 | 26 |
| 88 | Effects of multiple stresses on radish growth and resource allocation. Oecologia, 1989, 81, 124-131. | 2.0 | 24 |
| 89 | The United States, China, and invasive species: present status and future prospects. Biological Invasions, 2006, 8, 1589-1593. | 2.4 | 24 |
| 90 | Herbivore control of annual grassland composition in current and future environments. Ecology Letters, 2006, 9, 86-94. | 6.4 | 23 |

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|---|---|---|---|
| 91 | GASTROPOD HERBIVORY IN RESPONSE TO ELEVATED CO2AND N ADDITION IMPACTS PLANT COMMUNITY COMPOSITION. Ecology, 2006, 87, 686-694. | 3.2 | 22 |
| 92 | The Shenzhen Declaration on Plant Sciencesâ€"Uniting plant sciences and society to build a green, sustainable Earth. Journal of Systematics and Evolution, 2017, 55, 415-416. | 3.1 | 20 |
| 93 | Effects of CO2 and nutrient enrichment on tissue quality of two California annuals. Oecologia, 1996, 107, 433-440. | 2.0 | 19 |
| 94 | Carbon Dynamics of an Old-growth Forest. Ecosystems, 2004, 7, 421. | 3.4 | 19 |
| 95 | Revegetation of serpentine substrates: Response to phosphate application. Environmental Management, 1987, 11, 563-567. | 2.7 | 17 |
| 96 | The Global Invasive Species Program (GISP). Biological Invasions, 1999, 1, 97-98. | 2.4 | 15 |
| 97 | The Shenzhen declaration on plant sciencesâ€"Uniting plant sciences and society to build a green, sustainable Earth. Plants People Planet, 2019, 1, 59-61. | 3.3 | 12 |
| 98 | Restoring Native Forest Understory: The Influence of Ferns and Light in a Hawaiian Experiment. Sustainability, 2013, 5, 1317-1339. | 3.2 | 4 |
| 99 | Fauna in decline: Global assessments. Science, 2014, 345, 885-885. | 12.6 | 1 |
| 100 | The Shenzhen Declaration on Plant Sciences. Taxon, 2017, 66, 1261-1262. | 0.7 | 1 |