Amy Austin

List of Publications by Year in descending order

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76	8,534	81743	95083
papers	citations	39 h-index	68 g-index

80	80	80	10268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water pulses and biogeochemical cycles in arid and semiarid ecosystems. Oecologia, 2004, 141, 221-235.	0.9	1,119
2	Global patterns of the isotopic composition of soil and plant nitrogen. Global Biogeochemical Cycles, 2003, 17, .	1.9	866
3	Plant litter decomposition in a semi-arid ecosystem controlled by photodegradation. Nature, 2006, 442, 555-558.	13.7	659
4	Atmospheric nitrogen deposition in world biodiversity hotspots: the need for a greater global perspective in assessing N deposition impacts. Global Change Biology, 2006, 12, 470-476.	4.2	471
5	Nutrient dynamics on a precipitation gradient in Hawai'i. Oecologia, 1998, 113, 519-529.	0.9	426
6	The 15N natural abundance (Î´15N) of ecosystem samples reflects measures of water availability. Functional Plant Biology, 1999, 26, 185.	1.1	381
7	Dual role of lignin in plant litter decomposition in terrestrial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4618-4622.	3.3	374
8	Solar ultraviolet radiation in a changing climate. Nature Climate Change, 2014, 4, 434-441.	8.1	277
9	Tree species identity alters forest litter decomposition through longâ€term plant and soil interactions in Patagonia, Argentina. Journal of Ecology, 2008, 96, 727-736.	1.9	275
10	Responses and feedbacks of coupled biogeochemical cycles to climate change: examples from terrestrial ecosystems. Frontiers in Ecology and the Environment, 2011, 9, 61-67.	1.9	214
11	There's no place like home? An exploration of the mechanisms behind plant litterâ€“decomposer affinity in terrestrial ecosystems. New Phytologist, 2014, 204, 307-314.	3.5	192
12	Microbial community composition explains soil respiration responses to changing carbon inputs along an <scp>A</scp>ndesâ€toâ€<scp>A</scp>mazon elevation gradient. Journal of Ecology, 2014, 102, 1058-1071.	1.9	181
13	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. Photochemical and Photobiological Sciences, 2018, 17, 127-179.	1.6	177
14	Has water limited our imagination for aridland biogeochemistry?. Trends in Ecology and Evolution, 2011, 26, 229-235.	4.2	166
15	Precipitation, decomposition and litter decomposability of Metrosideros polymorpha in native forests on Hawai'i. Journal of Ecology, 2000, 88, 129-138.	1.9	161
16	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. Nature Sustainability, 2019, 2, 569-579.	11.5	156
17	Photodegradation alleviates the lignin bottleneck for carbon turnover in terrestrial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4392-4397.	3.3	146
18	Differential Controls of Water Input on Litter Decomposition and Nitrogen Dynamics in the Patagonian Steppe. Ecosystems, 2006, 9, 128-141.	1.6	137

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19	Carbon and nitrogen dynamics across a natural precipitation gradient in Patagonia, Argentina. Journal of Vegetation Science, 2002, 13, 351-360.	1.1	132
20	Canopy Light and Plant Health. Plant Physiology, 2012, 160, 145-155.	2.3	128
21	Intrinsic effects of species on leaf litter and root decomposition: a comparison of temperate grasses from North and South America. Oecologia, 2006, 150, 97-107.	0.9	127
22	A World of Cobenefits: Solving the Global Nitrogen Challenge. Earth's Future, 2019, 7, 865-872.	2.4	122
23	Sheep Grazing Decreases Organic Carbon and Nitrogen Pools in the Patagonian Steppe: Combination of Direct and Indirect Effects. Ecosystems, 2009, 12, 686-697.	1.6	98
24	Nitrogen addition stimulates forest litter decomposition and disrupts species interactions in Patagonia, Argentina. Global Change Biology, 2011, 17, 1963-1974.	4.2	94
25	A light-dependent molecular link between competition cues and defence responses in plants. Nature Plants, 2020, 6, 223-230.	4.7	92
26	Methods of Estimating Aboveground Net Primary Productivity. , 2000, , 31-43.		92
27	DIFFERENTIAL EFFECTS OF PRECIPITATION ON PRODUCTION AND DECOMPOSITION ALONG A RAINFALL GRADIENT IN HAWAII*. Ecology, 2002, 83, 328-338.	1.5	73
28	Recalculating growth and defense strategies under competition: key roles of photoreceptors and jasmonates. Journal of Experimental Botany, 2019, 70, 3425-3434.	2.4	68
29	Understory bamboo flowering provides a very narrow light window of opportunity for canopy-tree recruitment in a neotropical forest of Misiones, Argentina. Forest Ecology and Management, 2011, 262, 1360-1369.	1.4	62
30	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. Photochemical and Photobiological Sciences, 2020, 19, 542-584.	1.6	59
31	Interaction of position, litter type, and water pulses on decomposition of grasses from the semiarid Patagonian steppe. Ecology, 2009, 90, 2642-2647.	1.5	57
32	Gregarious bamboo flowering opens a window of opportunity for regeneration in a temperate forest of Patagonia. New Phytologist, 2009, 181, 880-889.	3.5	55
33	Effects of stratospheric ozone depletion, solar UV radiation, and climate change on biogeochemical cycling: interactions and feedbacks. Photochemical and Photobiological Sciences, 2014, 14, 127-148.	1.6	53
34	Solar UV radiation in a changing world: roles of cryosphereâ€"landâ€"waterâ€"atmosphere interfaces in global biogeochemical cycles. Photochemical and Photobiological Sciences, 2019, 18, 747-774.	1.6	49
35	Sources of reactive nitrogen affecting ecosystems in Latin America and the Caribbean: current trends and future perspectives. Biogeochemistry, 2006, 79, 3-24.	1.7	48
36	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. Photochemical and Photobiological Sciences, 2012, 11, 13-27.	1.6	47

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37	Ecological consequences of a massive flowering event of bamboo (Chusquea culeou) in a temperate forest of Patagonia, Argentina. Journal of Vegetation Science, 2009, 20, 424-432.	1.1	46
38	Spatial heterogeneity provides organic matter refuges for soil microbial activity in the Patagonian steppe, Argentina. Soil Biology and Biochemistry, 2009, 41, 1348-1351.	4.2	45
39	Inhibition of Nitrification Alters Carbon Turnover in the Patagonian Steppe. Ecosystems, 2006, 9, 1257-1265.	1.6	43
40	A shady business: pine afforestation alters the primary controls on litter decomposition along a precipitation gradient in Patagonia, Argentina. Journal of Ecology, 2015, 103, 1408-1420.	1.9	42
41	Do soil organisms affect aboveground litter decomposition in the semiarid Patagonian steppe, Argentina?. Oecologia, 2012, 168, 221-230.	0.9	41
42	Coarse Woody Debris Stimulates Soil Enzymatic Activity and Litter Decomposition in an Old-Growth Temperate Forest of Patagonia, Argentina. Ecosystems, 2013, 16, 1025-1038.	1.6	38
43	More is less: agricultural impacts on the N cycle in Argentina. Biogeochemistry, 2006, 79, 45-60.	1.7	33
44	Latin America's Nitrogen Challenge. Science, 2013, 340, 149-149.	6.0	32
45	The importance of macro- and micro-nutrients over climate for leaf litter decomposition and nutrient release in Patagonian temperate forests. Forest Ecology and Management, 2019, 441, 144-154.	1.4	31
46	Sunlight Doubles Aboveground Carbon Loss in a Seasonally Dry Woodland in Patagonia. Current Biology, 2020, 30, 3243-3251.e3.	1.8	25
47	Introduction to a <scp>V</scp>irtual <scp>S</scp>pecial <scp>I</scp>ssue on ecological stoichiometry and global change. New Phytologist, 2012, 196, 649-651.	3.5	23
48	Gregarious flowering and death of understorey bamboo slow litter decomposition and nitrogen turnover in a southern temperate forest in Patagonia, Argentina. Functional Ecology, 2012, 26, 265-273.	1.7	23
49	Plant interactions with other organisms: molecules, ecology and evolution. New Phytologist, 2014, 204, 257-260.	3.5	23
50	<scp>P</scp>inus ponderosa alters nitrogen dynamics andÂdiminishes the climate footprint in natural ecosystems of <scp>P</scp>atagonia. Journal of Ecology, 2014, 102, 610-621.	1.9	23
51	Litter microbial and soil faunal communities stimulated in the wake of a volcanic eruption in a semiâ€arid woodland in Patagonia, Argentina. Functional Ecology, 2017, 31, 245-259.	1.7	23
52	Controls on nitrification in a water-limited ecosystem: experimental inhibition of ammonia-oxidising bacteria in the Patagonian steppe. Soil Biology and Biochemistry, 2003, 35, 1609-1613.	4.2	22
53	Whether in life or in death: fresh perspectives on how plants affect biogeochemical cycling. Journal of Ecology, 2015, 103, 1367-1371.	1.9	19
54	Solar radiation exposure accelerates decomposition and biotic activity in surface litter but not soil in a semiarid woodland ecosystem in Patagonia, Argentina. Plant and Soil, 2019, 445, 483-496.	1.8	19

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55	Field exclusion of large soil predators impacts lower trophic levels and decreases leafâ€litter decomposition in dry forests. Journal of Animal Ecology, 2020, 89, 334-346.	1.3	19
56	Pine afforestation alters rhizosphere effects and soil nutrient turnover across a precipitation gradient in Patagonia, Argentina. Plant and Soil, 2017, 415, 449-464.	1.8	17
57	Plant, fungal, bacterial, and nitrogen interactions in the litter layer of a native Patagonian forest. PeerJ, 2018, 6, e4754.	0.9	15
58	Progress in creating a joint research agenda that allows networked longâ€term socioâ€ecological research in southern South America: Addressing crucial technological and human capacity gaps limiting its application in Chile and Argentina. Austral Ecology, 2012, 37, 529-536.	0.7	12
59	Innovations for a sustainable future: rising to the challenge of nitrogen greenhouse gas management in Latin America. Current Opinion in Environmental Sustainability, 2014, 9-10, 73-81.	3.1	11
60	Worlds apart: Location aboveâ€•or belowâ€ground determines plant litter decomposition in a semiâ€arid Patagonian steppe. Journal of Ecology, 2021, 109, 2885-2896.	1.9	11
61	Exotic pine forestation shifts carbon accumulation to litter detritus and wood along a broad precipitation gradient in Patagonia, Argentina. Forest Ecology and Management, 2020, 460, 117902.	1.4	11
62	Sunlight and soil biota accelerate decomposition of crop residues in the Argentine Pampas. Agriculture, Ecosystems and Environment, 2022, 330, 107908.	2.5	11
63	Temperate Grassland and Shrubland Ecosystems. , 2001, , 627-635.		8
64	Carbon and nitrogen dynamics across a natural precipitation gradient in Patagonia, Argentina. , 2002, 13, 351.		6
65	Doseâ€“responses for solar radiation exposure reveal high sensitivity of microbial decomposition to changes in plant litter quality that occur during photodegradation. New Phytologist, 2022, 235, 2022-2033.	3.5	6
66	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change. , 2014, , 493-505.		5
67	Journal of Ecology News: Data Archiving Compliance. Journal of Ecology, 2016, 104, 1-3.	1.9	4
68	Differential Effects of Precipitation on Production and Decomposition along a Rainfall Gradient in Hawaii. Ecology, 2002, 83, 328.	1.5	3
69	The human footprint in ecology â€“ past, present and future. New Phytologist, 2004, 164, 419-422.	3.5	3
70	More is less: agricultural impacts on the N cycle in Argentina. , 2006, , 45-60.		2
71	The Latin America Regional Nitrogen Centre: Concepts and Recent Activities. , 2020, , 499-514.		2
72	Journal of Ecology News. Journal of Ecology, 2014, 102, 1-3.	1.9	1

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73	Journal of Ecology News. Journal of Ecology, 2015, 103, 90-92.	1.9	1
74	Celebrating the ecosystemâ€™s three-quarter century: Introduction to a Virtual Special Issue on Sir Arthur Tansleyâ€™s ecosystem concept. New Phytologist, 2011, 192, 561-563.	3.5	0
75	Exotic plants get a little help from their friends. Science, 2020, 368, 934-936.	6.0	0
76	Summer sunlight impacts carbon turnover in a spatially heterogeneous Patagonian woodland. Plant and Soil, 0, , .	1.8	0