

# Amy Austin

## List of Publications by Citations

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68

papers

6,766

citations

35

h-index

80

g-index

80

ext. papers

7,665

ext. citations

7.6

avg, IF

6.03

L-index

#	Paper	IF	Citations
68	Water pulses and biogeochemical cycles in arid and semiarid ecosystems. <i>Oecologia</i> , <b>2004</b> , 141, 221-35	2.9	966
67	Global patterns of the isotopic composition of soil and plant nitrogen. <i>Global Biogeochemical Cycles</i> , <b>2003</b> , 17,	5.9	707
66	Plant litter decomposition in a semi-arid ecosystem controlled by photodegradation. <i>Nature</i> , <b>2006</b> , 442, 555-8	50.4	542
65	Atmospheric nitrogen deposition in world biodiversity hotspots: the need for a greater global perspective in assessing N deposition impacts. <i>Global Change Biology</i> , <b>2006</b> , 12, 470-476	11.4	403
64	Nutrient dynamics on a precipitation gradient in Hawai'i. <i>Oecologia</i> , <b>1998</b> , 113, 519-529	2.9	375
63	The $\delta^{15}\text{N}$ natural abundance ( $\delta^{15}\text{N}$ ) of ecosystem samples reflects measures of water availability. <i>Functional Plant Biology</i> , <b>1999</b> , 26, 185	2.7	311
62	Dual role of lignin in plant litter decomposition in terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4618-22	11.5	310
61	Tree species identity alters forest litter decomposition through long-term plant and soil interactions in Patagonia, Argentina. <i>Journal of Ecology</i> , <b>2008</b> , 96, 727-736	6	234
60	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , <b>2014</b> , 4, 434-441	21.4	221
59	Responses and feedbacks of coupled biogeochemical cycles to climate change: examples from terrestrial ecosystems. <i>Frontiers in Ecology and the Environment</i> , <b>2011</b> , 9, 61-67	5.5	159
58	Precipitation, decomposition and litter decomposability of <i>Metrosideros polymorpha</i> in native forests on Hawai'i <i>Journal of Ecology</i> , <b>2000</b> , 88, 129-138	6	147
57	There's no place like home? An exploration of the mechanisms behind plant litter-decomposer affinity in terrestrial ecosystems. <i>New Phytologist</i> , <b>2014</b> , 204, 307	9.8	141
56	Microbial community composition explains soil respiration responses to changing carbon inputs along an Andes-to-Amazon elevation gradient. <i>Journal of Ecology</i> , <b>2014</b> , 102, 1058-1071	6	133
55	Has water limited our imagination for aridland biogeochemistry?. <i>Trends in Ecology and Evolution</i> , <b>2011</b> , 26, 229-35	10.9	127
54	Carbon and nitrogen dynamics across a natural precipitation gradient in Patagonia, Argentina. <i>Journal of Vegetation Science</i> , <b>2002</b> , 13, 351-360	3.1	119
53	Canopy light and plant health. <i>Plant Physiology</i> , <b>2012</b> , 160, 145-55	6.6	115
52	Differential Controls of Water Input on Litter Decomposition and Nitrogen Dynamics in the Patagonian Steppe. <i>Ecosystems</i> , <b>2006</b> , 9, 128-141	3.9	114

51	Intrinsic effects of species on leaf litter and root decomposition: a comparison of temperate grasses from North and South America. <i>Oecologia</i> , <b>2006</b> , 150, 97-107	2.9	110
50	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 127-179	4.2	105
49	Photodegradation alleviates the lignin bottleneck for carbon turnover in terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4392-7	11.5	98
48	Sheep Grazing Decreases Organic Carbon and Nitrogen Pools in the Patagonian Steppe: Combination of Direct and Indirect Effects. <i>Ecosystems</i> , <b>2009</b> , 12, 686-697	3.9	83
47	Nitrogen addition stimulates forest litter decomposition and disrupts species interactions in Patagonia, Argentina. <i>Global Change Biology</i> , <b>2011</b> , 17, 1963-1974	11.4	74
46	Methods of Estimating Aboveground Net Primary Productivity <b>2000</b> , 31-43		74
45	DIFFERENTIAL EFFECTS OF PRECIPITATION ON PRODUCTION AND DECOMPOSITION ALONG A RAINFALL GRADIENT IN HAWAII*. <i>Ecology</i> , <b>2002</b> , 83, 328-338	4.6	65
44	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , <b>2019</b> , 2, 569-579	22.1	61
43	A world of co-benefits: Solving the global nitrogen challenge. <i>Earth's Future</i> , <b>2019</b> , 7, 1-8	7.9	61
42	A light-dependent molecular link between competition cues and defence responses in plants. <i>Nature Plants</i> , <b>2020</b> , 6, 223-230	11.5	47
41	Understory bamboo flowering provides a very narrow light window of opportunity for canopy-tree recruitment in a neotropical forest of Misiones, Argentina. <i>Forest Ecology and Management</i> , <b>2011</b> , 262, 1360-1369	3.9	47
40	Interaction of position, litter type, and water pulses on decomposition of grasses from the semiarid Patagonian steppe. <i>Ecology</i> , <b>2009</b> , 90, 2642-7	4.6	47
39	Gregarious bamboo flowering opens a window of opportunity for regeneration in a temperate forest of Patagonia. <i>New Phytologist</i> , <b>2009</b> , 181, 880-889	9.8	47
38	Sources of reactive nitrogen affecting ecosystems in Latin America and the Caribbean: current trends and future perspectives. <i>Biogeochemistry</i> , <b>2006</b> , 79, 3-24	3.8	45
37	Effects of stratospheric ozone depletion, solar UV radiation, and climate change on biogeochemical cycling: interactions and feedbacks. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 127-48	4.2	44
36	Recalculating growth and defense strategies under competition: key roles of photoreceptors and jasmonates. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 3425-3434	7	40
35	Spatial heterogeneity provides organic matter refuges for soil microbial activity in the Patagonian steppe, Argentina. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 1348-1351	7.5	39
34	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , <b>2012</b> , 11, 13-27	4.2	37

33	Inhibition of Nitrification Alters Carbon Turnover in the Patagonian Steppe. <i>Ecosystems</i> , <b>2006</b> , 9, 1257-1265	3.5	35
32	Solar UV radiation in a changing world: roles of cryosphere-land-water-atmosphere interfaces in global biogeochemical cycles. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 747-774	4.2	34
31	Do soil organisms affect aboveground litter decomposition in the semiarid Patagonian steppe, Argentina?. <i>Oecologia</i> , <b>2012</b> , 168, 221-30	2.9	33
30	A shady business: pine afforestation alters the primary controls on litter decomposition along a precipitation gradient in Patagonia, Argentina. <i>Journal of Ecology</i> , <b>2015</b> , 103, 1408-1420	6	31
29	More is less: agricultural impacts on the N cycle in Argentina. <i>Biogeochemistry</i> , <b>2006</b> , 79, 45-60	3.8	31
28	Environment. Latin America's nitrogen challenge. <i>Science</i> , <b>2013</b> , 340, 149	33.3	30
27	Ecological consequences of a massive flowering event of bamboo ( <i>Chusquea culeou</i> ) in a temperate forest of Patagonia, Argentina. <i>Journal of Vegetation Science</i> , <b>2009</b> , 20, 424-432	3.1	29
26	Coarse Woody Debris Stimulates Soil Enzymatic Activity and Litter Decomposition in an Old-Growth Temperate Forest of Patagonia, Argentina. <i>Ecosystems</i> , <b>2013</b> , 16, 1025-1038	3.9	27
25	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , <b>2020</b> , 19, 542-584	4.2	24
24	Controls on nitrification in a water-limited ecosystem: experimental inhibition of ammonia-oxidising bacteria in the Patagonian steppe. <i>Soil Biology and Biochemistry</i> , <b>2003</b> , 35, 1609-1613	7.5	20
23	The importance of macro- and micro-nutrients over climate for leaf litter decomposition and nutrient release in Patagonian temperate forests. <i>Forest Ecology and Management</i> , <b>2019</b> , 441, 144-154	3.9	19
22	<i>Pinus ponderosa</i> alters nitrogen dynamics and diminishes the climate footprint in natural ecosystems of Patagonia. <i>Journal of Ecology</i> , <b>2014</b> , 102, 610-621	6	18
21	Litter microbial and soil faunal communities stimulated in the wake of a volcanic eruption in a semi-arid woodland in Patagonia, Argentina. <i>Functional Ecology</i> , <b>2017</b> , 31, 245-259	5.6	15
20	Whether in life or in death: fresh perspectives on how plants affect biogeochemical cycling. <i>Journal of Ecology</i> , <b>2015</b> , 103, 1367-1371	6	14
19	Gregarious flowering and death of understory bamboo slow litter decomposition and nitrogen turnover in a southern temperate forest in Patagonia, Argentina. <i>Functional Ecology</i> , <b>2012</b> , 26, 265-273	5.6	14
18	Solar radiation exposure accelerates decomposition and biotic activity in surface litter but not soil in a semiarid woodland ecosystem in Patagonia, Argentina. <i>Plant and Soil</i> , <b>2019</b> , 445, 483-496	4.2	12
17	Progress in creating a joint research agenda that allows networked long-term socio-ecological research in southern South America: Addressing crucial technological and human capacity gaps limiting its application in Chile and Argentina. <i>Austral Ecology</i> , <b>2012</b> , 37, 529-536	1.5	11
16	Pine afforestation alters rhizosphere effects and soil nutrient turnover across a precipitation gradient in Patagonia, Argentina. <i>Plant and Soil</i> , <b>2017</b> , 415, 449-464	4.2	10

15	Innovations for a sustainable future: rising to the challenge of nitrogen greenhouse gas management in Latin America. <i>Current Opinion in Environmental Sustainability</i> , <b>2014</b> , 9-10, 73-81	7.2	10
14	Sunlight Doubles Aboveground Carbon Loss in a Seasonally Dry Woodland in Patagonia. <i>Current Biology</i> , <b>2020</b> , 30, 3243-3251.e3	6.3	10
13	Plant, fungal, bacterial, and nitrogen interactions in the litter layer of a native Patagonian forest. <i>PeerJ</i> , <b>2018</b> , 6, e4754	3.1	8
12	Field exclusion of large soil predators impacts lower trophic levels and decreases leaf-litter decomposition in dry forests. <i>Journal of Animal Ecology</i> , <b>2020</b> , 89, 334-346	4.7	8
11	Temperate Grassland and Shrubland Ecosystems <b>2001</b> , 627-635		7
10	Exotic pine forestation shifts carbon accumulation to litter detritus and wood along a broad precipitation gradient in Patagonia, Argentina. <i>Forest Ecology and Management</i> , <b>2020</b> , 460, 117902	3.9	7
9	Carbon and nitrogen dynamics across a natural precipitation gradient in Patagonia, Argentina <b>2002</b> , 13, 351		6
8	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change <b>2014</b> , 493-505		5
7	Worlds apart: Location above- or below-ground determines plant litter decomposition in a semi-arid Patagonian steppe. <i>Journal of Ecology</i> , <b>2021</b> , 109, 2885-2896	6	4
6	The human footprint in ecology Past, present and future. <i>New Phytologist</i> , <b>2004</b> , 164, 419-422	9.8	3
5	Differential Effects of Precipitation on Production and Decomposition along a Rainfall Gradient in Hawaii. <i>Ecology</i> , <b>2002</b> , 83, 328	4.6	3
4	The Latin America Regional Nitrogen Centre: Concepts and Recent Activities <b>2020</b> , 499-514		1
3	More is less: agricultural impacts on the N cycle in Argentina <b>2006</b> , 45-60		1
2	Sunlight and soil biota accelerate decomposition of crop residues in the Argentine Pampas. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 330, 107908	5.7	1
1	Exotic plants get a little help from their friends. <i>Science</i> , <b>2020</b> , 368, 934-936	33.3	