

Julio L Betancourt

List of Publications by Year in descending order

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101
papers

10,944
citations

34105

52
h-index

36028

97
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102
all docs

102
docs citations

102
times ranked

11810
citing authors

#	ARTICLE	IF	CITATIONS
1	APPLIED HISTORICAL ECOLOGY: USING THE PAST TO MANAGE FOR THE FUTURE. , 1999, 9, 1189-1206.		1,055
2	Pacific and Atlantic Ocean influences on multidecadal drought frequency in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4136-4141.	7.1	928
3	Mesoscale Disturbance and Ecological Response to Decadal Climatic Variability in the American Southwest. Journal of Climate, 1998, 11, 3128-3147.	3.2	745
4	A tree-ring based reconstruction of the Atlantic Multidecadal Oscillation since 1567 A.D.. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	484
5	Ecology and the ratchet of events: Climate variability, niche dimensions, and species distributions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19685-19692.	7.1	436
6	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1424-1432.	7.1	400
7	Predicting phenology by integrating ecology, evolution and climate science. Global Change Biology, 2011, 17, 3633-3643.	9.5	314
8	Past and future global transformation of terrestrial ecosystems under climate change. Science, 2018, 361, 920-923.	12.6	307
9	The Unusual Nature of Recent Snowpack Declines in the North American Cordillera. Science, 2011, 333, 332-335.	12.6	290
10	Defining Ecological Drought for the Twenty-First Century. Bulletin of the American Meteorological Society, 2017, 98, 2543-2550.	3.3	255
11	The Neotoma Paleoecology Database, a multiproxy, international, community-curated data resource. Quaternary Research, 2018, 89, 156-177.	1.7	210
12	Leaf $\delta^{13}C$ variability with elevation, slope aspect, and precipitation in the southwest United States. Oecologia, 2002, 132, 332-343.	2.0	192
13	Life at the hyperarid margin: novel bacterial diversity in arid soils of the Atacama Desert, Chile. Extremophiles, 2012, 16, 553-566.	2.3	182
14	Phylogenetic conservatism in plant phenology. Journal of Ecology, 2013, 101, 1520-1530.	4.0	182
15	Vegetation invasions into absolute desert: A 45,000 yr rodent midden record from the Calama-Salar de Atacama basins, northern Chile (lat 22°-24°S). Bulletin of the Geological Society of America, 2002, 114, 349-366.	3.3	173
16	Paleowetlands and regional climate change in the central Atacama Desert, northern Chile. Quaternary Research, 2008, 69, 343-360.	1.7	165
17	Bacterial Community Structure in the Hyperarid Core of the Atacama Desert, Chile. Applied and Environmental Microbiology, 2006, 72, 7902-7908.	3.1	160
18	A vegetation history from the arid prepuna of northern Chile (22°-23°S) over the last 13,500 years. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 194, 223-246.	2.3	144

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19	Late Quaternary paleohydrology of the central Atacama Desert (lat 22°–24°S), Chile. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 334-348.	3.3	137
20	Late Quaternary vegetation and climate history of a perennial river canyon in the Río Salado basin (22°S) of Northern Chile. <i>Quaternary Research</i> , 2006, 65, 450-466.	1.7	126
21	Soils at the hyperarid margin: The isotopic composition of soil carbonate from the Atacama Desert, Northern Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3772-3795.	3.9	126
22	ROLE OF MULTIDECADAL CLIMATE VARIABILITY IN A RANGE EXTENSION OF PINYON PINE. <i>Ecology</i> , 2006, 87, 1124-1130.	3.2	125
23	Pollen analyses from a 50 000-yr rodent midden series in the southern Atacama Desert (25°–30° S). <i>Journal of Quaternary Science</i> , 2005, 20, 493-507.	2.1	123
24	Patterns and sources of multidecadal oscillations in drought-sensitive tree-ring records from the central and southern Rocky Mountains. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	116
25	From Caprio's lilacs to the USA National Phenology Network. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 324-327.	4.0	114
26	Regional patterns and proximal causes of the recent snowpack decline in the Rocky Mountains, U.S.. <i>Geophysical Research Letters</i> , 2013, 40, 1811-1816.	4.0	108
27	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. <i>Ecosystems</i> , 2012, 15, 1283-1294.	3.4	107
28	A dynamic leaf gas exchange strategy is conserved in woody plants under changing ambient CO ₂ : evidence from carbon isotope discrimination in paleo and CO ₂ enrichment studies. <i>Global Change Biology</i> , 2016, 22, 889-902.	9.5	106
29	Spring onset variations and trends in the continental United States: past and regional assessment using temperature-based indices. <i>International Journal of Climatology</i> , 2013, 33, 2917-2922.	3.5	100
30	CLIMATE IN THE DRY CENTRAL ANDES OVER GEOLOGIC, MILLENNIAL, AND INTERANNUAL TIMESCALES ¹ . <i>Annals of the Missouri Botanical Garden</i> , 2009, 96, 386-397.	1.3	97
31	INFLUENCE OF LANDSCAPE STRUCTURE AND CLIMATE VARIABILITY ON A LATE HOLOCENE PLANT MIGRATION. <i>Ecological Monographs</i> , 2003, 73, 567-583.	5.4	95
32	Inferences about winter temperatures and summer rains from the late Quaternary record of C4 perennial grasses and C3 desert shrubs in the northern Chihuahuan Desert. <i>Journal of Quaternary Science</i> , 2007, 22, 141-161.	2.1	86
33	Associations of multi-decadal sea-surface temperature variability with US drought. <i>Quaternary International</i> , 2008, 188, 31-40.	1.5	83
34	⁸⁷ Sr/ ⁸⁶ Sr sourcing of ponderosa pine used in Anasazi great house construction at Chaco Canyon, New Mexico. <i>Journal of Archaeological Science</i> , 2005, 32, 1061-1075.	2.4	82
35	Response of Bushy-Tailed Woodrats (<i>Neotoma cinerea</i>) to Late Quaternary Climatic Change in the Colorado Plateau. <i>Quaternary Research</i> , 1998, 50, 1-11.	1.7	81
36	Middle- and late-Wisconsin paleobotanic and paleoclimatic records from the southern Colorado Plateau, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 155, 31-57.	2.3	79

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37	Ploidy race distributions since the Last Glacial Maximum in the North American desert shrub, <i>Larrea tridentata</i> . <i>Global Ecology and Biogeography</i> , 2001, 10, 521-533.	5.8	77
38	Prehistoric Long-Distance Transport of Construction Beams, Chaco Canyon, New Mexico. <i>American Antiquity</i> , 1986, 51, 370-375.	1.1	75
39	Trends and Natural Variability of Spring Onset in the Coterminous United States as Evaluated by a New Gridded Dataset of Spring Indices. <i>Journal of Climate</i> , 2015, 28, 8363-8378.	3.2	73
40	Molecular analysis of a 11,700-year-old rodent midden from the Atacama Desert, Chile. <i>Molecular Ecology</i> , 2002, 11, 913-924.	3.9	72
41	Re-evaluation of mid-Holocene deposits at Quebrada Puripica, northern Chile. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 194, 207-222.	2.3	70
42	A 16,000 14C yr B.P. packrat midden series from the USA-Mexico Borderlands. <i>Quaternary Research</i> , 2003, 60, 319-329.	1.7	68
43	Anticipatory natural resource science and management for a changing future. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 295-303.	4.0	68
44	Biogeographic Implications of a Packrat Midden Sequence from the Sacramento Mountains, South-Central New Mexico. <i>Quaternary Research</i> , 1984, 22, 344-360.	1.7	65
45	Phylogeny, diet, and habitat of an extinct ground sloth from Cuchillo CurÃ¡, NeuquÃ©n Province, southwest Argentina. <i>Quaternary Research</i> , 2003, 59, 364-378.	1.7	64
46	Late Quaternary vegetation history of Rough Canyon, south-central New Mexico, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 165, 71-95.	2.3	62
47	Facilitation drives 65 years of vegetation change in the Sonoran Desert. <i>Ecology</i> , 2010, 91, 1132-1139.	3.2	61
48	TREE-RING BASED RECONSTRUCTIONS OF INTERANNUAL TO DECADEAL SCALE PRECIPITATION VARIABILITY FOR NORTHEASTERN UTAH SINCE 1226 A.D.. <i>Journal of the American Water Resources Association</i> , 2004, 40, 947-960.	2.4	60
49	Northern Hemisphere Modes of Variability and the Timing of Spring in Western North America. <i>Journal of Climate</i> , 2011, 24, 4003-4014.	3.2	60
50	The effect of Holocene temperature fluctuations on the evolution and ecology of <i>Neotoma</i> (woodrats) in Idaho and northwestern Utah. <i>Quaternary Research</i> , 2003, 59, 160-171.	1.7	59
51	Vegetation history of the deserts of southwestern North America; The nature and timing of the late Wisconsin-Holocene transition. , 0, , 323-352.		55
52	Tree-Ring-Based Reconstruction of Precipitation in the Bighorn Basin, Wyoming, since 1260 A.D. <i>Journal of Climate</i> , 2004, 17, 3855-3865.	3.2	54
53	A 40,000-year woodrat-midden record of vegetational and biogeographical dynamics in north-eastern Utah, USA. <i>Journal of Biogeography</i> , 2005, 32, 1085-1106.	3.0	54
54	Associations of Decadal to Multidecadal Sea Surface Temperature Variability with Upper Colorado River Flow. <i>Journal of the American Water Resources Association</i> , 2007, 43, 183-192.	2.4	54

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55	Influences of the El Niño Southern Oscillation and the Pacific Decadal Oscillation on the timing of the North American spring. <i>International Journal of Climatology</i> , 2012, 32, 2301-2310.	3.5	52
56	Implementing a U.S. National Phenology Network. <i>Eos</i> , 2005, 86, 539.	0.1	51
57	Predicting woodrat (<i>Neotoma</i>) responses to anthropogenic warming from studies of the palaeomidden record. <i>Journal of Biogeography</i> , 2006, 33, 2061-2076.	3.0	50
58	Holocene Vegetation History from Fossil Rodent Middens near Arequipa, Peru. <i>Quaternary Research</i> , 2001, 56, 242-251.	1.7	49
59	A 36,000-yr vegetation history from the Peloncillo Mountains, southeastern Arizona, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 240, 405-422.	2.3	49
60	Introduced and Invasive Species in Novel Rangeland Ecosystems: Friends or Foes?. <i>Rangeland Ecology and Management</i> , 2012, 65, 569-578.	2.3	49
61	Climatic dipoles drive two principal modes of North American boreal bird irruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2795-802.	7.1	49
62	Strontium isotopes and nutrient sourcing in a semi-arid woodland. <i>Geoderma</i> , 2012, 189-190, 574-584.	5.1	46
63	Modeling the long-term effects of fuelwood harvests on Pinyon-Juniper Woodlands. <i>Environmental Management</i> , 1982, 6, 505-515.	2.7	45
64	Rodent middens reveal episodic, long-distance plant colonizations across the hyperarid Atacama Desert over the last 34,000 years. <i>Journal of Biogeography</i> , 2012, 39, 510-525.	3.0	45
65	Annual precipitation in the yellowstone National Park region since AD 1173. <i>Quaternary Research</i> , 2007, 68, 18-27.	1.7	44
66	Holocene Lake-Level Fluctuations of Lake Aricota, Southern Peru. <i>Quaternary Research</i> , 2001, 56, 181-190.	1.7	43
67	A long-term vegetation history of the Mojave Colorado desert ecotone at Joshua Tree National Park. <i>Journal of Quaternary Science</i> , 2010, 25, 222-236.	2.1	43
68	Packrat Middens from Canyon de Chelly, Northeastern Arizona: Paleoeological and Archaeological Implications. <i>Quaternary Research</i> , 1984, 21, 56-64.	1.7	41
69	Paleoclimatic significance of $\delta^{18}O$ and $\delta^{13}C$ values in piñon pine needles from packrat middens spanning the last 40,000 years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999, 147, 53-72.	2.3	39
70	Accumulation of impact markers in desert wetlands and implications for the Younger Dryas impact hypothesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7208-7212.	7.1	38
71	Variability in the start, end, and length of frost-free periods across the conterminous United States during the past century. <i>International Journal of Climatology</i> , 2015, 35, 4673-4680.	3.5	36
72	Climate Dipoles as Continental Drivers of Plant and Animal Populations. <i>Trends in Ecology and Evolution</i> , 2020, 35, 440-453.	8.7	34

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73	Classification tree and minimum-volume ellipsoid analyses of the distribution of ponderosa pine in the western USA. <i>Journal of Biogeography</i> , 2006, 33, 342-360.	3.0	30
74	Understanding arid environments using fossil rodent middens. <i>Journal of Arid Environments</i> , 2002, 50, 499-511.	2.4	29
75	Evidence against a Pleistocene desert refugium in the Lower Colorado River Basin. <i>Journal of Biogeography</i> , 2014, 41, 1769-1780.	3.0	29
76	Leaf cellulose $\delta^{13}C$ and $\delta^{18}O$ trends with elevation differ in direction among co-occurring, semiarid plant species. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3887-3900.	3.9	28
77	Effects of seeding ryegrass (<i>Lolium multiflorum</i>) on vegetation recovery following fire in a ponderosa pine (<i>Pinus ponderosa</i>) forest. <i>International Journal of Wildland Fire</i> , 2004, 13, 183.	2.4	28
78	Vegetation history along the eastern, desert escarpment of the Sierra San Pedro Mártir, Baja California, Mexico. <i>Quaternary Research</i> , 2011, 75, 647-657.	1.7	28
79	Holocene Vegetation and Climate History of the Northern Bighorn Basin, Southern Montana. <i>Quaternary Research</i> , 2002, 58, 171-181.	1.7	27
80	Paleomadrigueras de roedores, un nuevo método para el estudio del Cuaternario en zonas Áridas de Sudamérica. <i>Revista Chilena De Historia Natural</i> , 2002, 75, 527.	1.2	24
81	Using State-and-Transition Modeling to Account for Imperfect Detection in Invasive Species Management. <i>Invasive Plant Science and Management</i> , 2013, 6, 36-47.	1.1	24
82	A Test of "Annual Resolution" in Stalagmites Using Tree Rings. <i>Quaternary Research</i> , 2002, 58, 197-199.	1.7	21
83	Holocene fire occurrence and alluvial responses at the leading edge of pinyon-juniper migration in the Northern Great Basin, USA. <i>Quaternary Research</i> , 2013, 80, 143-157.	1.7	19
84	Teleconnected ocean forcing of Western North American droughts and pluvials during the last millennium. <i>Quaternary Science Reviews</i> , 2016, 146, 238-250.	3.0	18
85	High- and low-latitude forcings drive Atacama Desert rainfall variations over the past 16,000 years. <i>Science Advances</i> , 2021, 7, eabg1333.	10.3	18
86	Variability Common to First Leaf Dates and Snowpack in the Western Conterminous United States. <i>Earth Interactions</i> , 2013, 17, 1-18.	1.5	14
87	Life history traits predict colonization and extinction lags of desert plant species since the Last Glacial Maximum. <i>Ecology</i> , 2019, 100, e02817.	3.2	14
88	Grassification and Fast-Evolving Fire Connectivity and Risk in the Sonoran Desert, United States. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	14
89	Climatic limits on foliar growth during major droughts in the southwestern USA. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
90	Late Holocene expansion of ponderosa pine (<i>Pinus ponderosa</i>) in the Central Rocky Mountains, USA. <i>Journal of Biogeography</i> , 2016, 43, 778-790.	3.0	12

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91	Reduced Population Variance in Strontium Isotope Ratios Informs Domesticated Turkey Use at Chaco Canyon, New Mexico, USA. <i>Journal of Archaeological Method and Theory</i> , 2016, 23, 127-149.	3.0	12
92	Recovery and analysis of ancient beetle DNA from subfossil packrat middens using high-throughput sequencing. <i>Scientific Reports</i> , 2021, 11, 12635.	3.3	12
93	Woodland Dynamics at the Northern Range Periphery: A Challenge for Protected Area Management in a Changing World. <i>PLoS ONE</i> , 2013, 8, e70454.	2.5	11
94	Seasonality of biological and physical systems as indicators of climatic variation and change. <i>Climatic Change</i> , 2020, 163, 1755-1771.	3.6	9
95	Energy flow and the "grassification" of desert shrublands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9504-9505.	7.1	8
96	Extinction debt and delayed colonization have had comparable but unique effects on plant community "climate lags since the Last Glacial Maximum. <i>Global Ecology and Biogeography</i> , 2019, 28, 1067-1077.	5.8	7
97	Influence of source and scale of gridded temperature data on modelled spring onset patterns in the conterminous United States. <i>International Journal of Climatology</i> , 2018, 38, 5430-5440.	3.5	5
98	Ecological fidelity and spatiotemporal resolution of arthropod death assemblages from rodent middens in the central Atacama Desert (northern Chile). <i>Quaternary Science Reviews</i> , 2019, 210, 15-25.	3.0	5
99	Reply to Baker and Genty's comments on "A test of annual resolution in stalagmite using tree rings": <i>Quaternary Research</i> , 2003, 59, 479-479.	1.7	3
100	Investigating (a)symmetry in a small mammal's response to warming and cooling events across western North America over the late Quaternary. <i>Quaternary Research</i> , 2019, 92, 408-415.	1.7	3
101	Creosote bush (<i>Larrea tridentata</i>) ploidy history along its diploid-tetraploid boundary in southeastern Arizona-southwestern New Mexico, USA. <i>Journal of Arid Environments</i> , 2019, 164, 7-11.	2.4	2