

Isabel P MontaÑez

List of Publications by Year in descending order

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115
papers

7,020
citations

53794

45
h-index

62596

80
g-index

118
all docs

118
docs citations

118
times ranked

4418
citing authors

#	ARTICLE	IF	CITATIONS
1	Carboniferous isotope stratigraphy. Geological Society Special Publication, 2022, 512, 197-211.	1.3	7
2	The Late Palaeozoic Ice Age unconformity in southern Namibia viewed as a patchwork mosaic. Depositional Record, 2022, 8, 419-435.	1.7	8
3	Current synthesis of the penultimate icehouse and its imprint on the Upper Devonian through Permian stratigraphic record. Geological Society Special Publication, 2022, 512, 213-245.	1.3	38
4	Late Permian soil-forming paleoenvironments on Gondwana: A review. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 586, 110762.	2.3	3
5	A glimpse of a Gondwanan postglacial fossil forest. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 588, 110814.	2.3	5
6	Enhanced ocean connectivity and volcanism instigated global onset of Cretaceous Oceanic Anoxic Event 2 (OAE2) ~149.5 million years ago. Earth and Planetary Science Letters, 2022, 578, 117331.	4.4	12
7	Variability in effective moisture inferred from inclusion fluid $\delta^{18}\text{O}$ and $\delta^2\text{H}$ values in a central Sierra Nevada stalagmite (CA). Quaternary Science Reviews, 2022, 279, 107399.	3.0	5
8	Marine anoxia linked to abrupt global warming during Earth's penultimate icehouse. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115231119.	7.1	24
9	Modeled physiological mechanisms for observed changes in the late Paleozoic plant fossil record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 562, 110056.	2.3	13
10	Provenance of late Paleozoic glacial/post-glacial deposits in the eastern Chaco-Paraná Basin, Uruguay and southernmost Paraná Basin, Brazil. Journal of South American Earth Sciences, 2021, 106, 102989.	1.4	5
11	Geologic variability of conodont strontium isotopic composition quantified by laser ablation multiple collection inductively coupled plasma mass spectrometry. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 568, 110308.	2.3	5
12	Simulation of oxygen isotopes and circulation in a late Carboniferous epicontinental sea with implications for proxy records. Earth and Planetary Science Letters, 2021, 559, 116770.	4.4	9
13	Was climatic cooling during the earliest Carboniferous driven by expansion of seed plants?. Earth and Planetary Science Letters, 2021, 565, 116953.	4.4	33
14	Fjord network in Namibia: A snapshot into the dynamics of the late Paleozoic glaciation. Geology, 2021, 49, 1521-1526.	4.4	20
15	A high-precision U-Pb zircon age constraints the timing of the faunistic and palynofloristic events of the Carnian Ischigualasto Formation, San Juan, Argentina. Journal of South American Earth Sciences, 2021, 111, 103433.	1.4	17
16	Freeze tolerance influenced forest cover and hydrology during the Pennsylvanian. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
17	A mechanistic understanding of oxygen isotopic changes in the Western United States at the Last Glacial Maximum. Quaternary Science Reviews, 2021, 274, 107255.	3.0	13
18	Monitoring of Sierra Nevada Caves Reveals the Potential for Stalagmites to Archive Seasonal Variability. Frontiers in Earth Science, 2021, 9, .	1.8	1

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19	Orbitally driven redox fluctuations during Cretaceous Oceanic Anoxic Event 2 (OAE2) revealed by a new magnetic proxy. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 538, 109465.	2.3	10
20	A process-based ecosystem model (Paleo-BGC) to simulate the dynamic response of Late Carboniferous plants to elevated O ₂ and aridification. <i>Numerische Mathematik</i> , 2020, 320, 547-598.	1.4	17
21	Past climates inform our future. <i>Science</i> , 2020, 370, .	12.6	253
22	Enhanced continental weathering and large igneous province induced climate warming at the Permo-Carboniferous transition. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116074.	4.4	45
23	Carboniferous plant physiology breaks the mold. <i>New Phytologist</i> , 2020, 227, 667-679.	7.3	18
24	Influence of temporally varying weatherability on CO ₂ and climate coupling and ecosystem change in the late Paleozoic. <i>Climate of the Past</i> , 2020, 16, 1759-1775.	3.4	66
25	Late Mississippian glacio-eustasy recorded in the eastern Paleo-Tethys Ocean (South China). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 531, 108873.	2.3	29
26	Coupled stratigraphic and U-Pb zircon age constraints on the late Paleozoic icehouse-to-greenhouse turnover in south-central Gondwana. <i>Geology</i> , 2019, 47, 1146-1150.	4.4	66
27	Testing the accuracy of new paleoatmospheric CO ₂ proxies based on plant stable carbon isotopic composition and stomatal traits in a range of simulated paleoatmospheric O ₂ :CO ₂ ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 69-90.	3.9	23
28	Carboniferous glaciotectionized sediments in the southernmost Paraná Basin, Brazil: Ice marginal dynamics and paleoclimate indicators. <i>Sedimentary Geology</i> , 2019, 389, 54-72.	2.1	18
29	Mapping Fluid-Filled Inclusions in Stalagmites Using Coupled X-Ray and Neutron Computed Tomography: Potential as a Water Excess Proxy. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2647-2656.	2.5	1
30	Chemostratigraphic correlations across the first major trilobite extinction and faunal turnovers between Laurentia and South China. <i>Scientific Reports</i> , 2019, 9, 17392.	3.3	9
31	Origin of paleovalleys on the Rio Grande do Sul Shield (Brazil): Implications for the extent of late Paleozoic glaciation in west-central Gondwana. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 531, 108738.	2.3	30
32	Isotopes to ice: Constraining provenance of glacial deposits and ice centers in west-central Gondwana. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 531, 108745.	2.3	31
33	Carboniferous climate teleconnections archived in coupled biosphere & hydrosphere. $O_2 \text{ and } CO_2 \text{ during Ocean Anoxic Event 1d indicate similarities to other carbon cycle perturbations. Earth and Planetary Science Letters, 2018, 492, 89-101.}$ 	4.4	28
34	Changes in CO ₂ during Ocean Anoxic Event 1d indicate similarities to other carbon cycle perturbations. <i>Earth and Planetary Science Letters</i> , 2018, 491, 172-182.	4.4	28
35	Strontium and carbon isotopic evidence for decoupling of pCO ₂ from continental weathering at the apex of the late Paleozoic glaciation. <i>Geology</i> , 2018, 46, 395-398.	4.4	91
36	A new stratigraphic framework built on U-Pb single-zircon TIMS ages and implications for the timing of the penultimate icehouse (Paraná Basin, Brazil). <i>Bulletin of the Geological Society of America</i> , 2018, 130, 848-858.	3.3	94

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37	Diagenesis. Encyclopedia of Earth Sciences Series, 2018, , 353-362.	0.1	3
38	Astronomical constraints on global carbon-cycle perturbation during Oceanic Anoxic Event 2 (OAE2). Earth and Planetary Science Letters, 2017, 462, 35-46.	4.4	47
39	Assessing response of local moisture conditions in central Brazil to variability in regional monsoon intensity using speleothem $^{87}\text{Sr}/^{86}\text{Sr}$ values. Earth and Planetary Science Letters, 2017, 463, 310-322.	4.4	48
40	Evolutionary differences in $\delta^{13}\text{C}$ detected between spore and seed bearing plants following exposure to a range of atmospheric $\text{O}_2:\text{CO}_2$ ratios; implications for paleoatmosphere reconstruction. Geochimica Et Cosmochimica Acta, 2017, 213, 517-533.	3.9	37
41	Dynamic Carboniferous tropical forests: new views of plant function and potential for physiological forcing of climate. New Phytologist, 2017, 215, 1333-1353.	7.3	64
42	REVISITING EARLY PERMIAN CO_2 VIA IMPROVED INPUT PARAMETERS AND MODELS. , 2017, , .		1
43	FOSSILIZED DRIP-WATER FROM A SIERRA NEVADA CAVE REVEALS CHANGING CONDITIONS OVER THE NORTH PACIFIC DURING THE LAST DEGLACIATION. , 2017, , .		1
44	Diagenesis. Encyclopedia of Earth Sciences Series, 2017, , 1-11.	0.1	0
45	Eccentricity and obliquity paced carbon cycling in the Early Triassic and implications for post-extinction ecosystem recovery. Scientific Reports, 2016, 6, 27793.	3.3	23
46	Reply to the comment on "Chronostratigraphy and paleoclimatology of the Lodève Basin, France: Evidence for a pan-tropical aridification event across the Carboniferous-Permian boundary" by Michel et al., (2015). Palaeogeography, Palaeoclimatology, Palaeoecology 430, 118-131. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 441, 1000-1004.	2.3	4
47	Paleosol Diagenesis and Its Deep-Time Paleoenvironmental Implications, Pennsylvanian-Permian Lodève Basin, France. Journal of Sedimentary Research, 2016, 86, 813-829.	1.6	13
48	Climate, pCO_2 and terrestrial carbon cycle linkages during late Palaeozoic glacial-interglacial cycles. Nature Geoscience, 2016, 9, 824-828.	12.9	189
49	Evolution of moisture transport to the western U.S. during the last deglaciation. Geophysical Research Letters, 2016, 43, 3468-3477.	4.0	22
50	A Late Paleozoic climate window of opportunity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2334-2336.	7.1	51
51	Coupled sedimentary and $\delta^{13}\text{C}$ records of late Mississippian platform-to-slope successions from South China: Insight into $\delta^{13}\text{C}$ chemostratigraphy. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 448, 162-178.	2.3	33
52	Reconstructing Extinct Plant Water Use for Understanding Vegetation-Climate Feedbacks: Methods, Synthesis, and a Case Study Using the Paleozoic-Era Medullosan Seed Ferns. The Paleontological Society Papers, 2015, 21, 167-196.	0.6	23
53	Chronostratigraphy and Paleoclimatology of the Lodève Basin, France: Evidence for a pan-tropical aridification event across the Carboniferous-Permian boundary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 430, 118-131.	2.3	98
54	The evolution of the global selenium cycle: Secular trends in Se isotopes and abundances. Geochimica Et Cosmochimica Acta, 2015, 162, 109-125.	3.9	59

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55	A refined protocol for $\delta^{18}O_{PO4}$ analysis of conodont bioapatite. <i>Chemical Geology</i> , 2015, 417, 11-20.	3.3	9
56	Late Pennsylvanian aridification on the southwestern margin of Gondwana (Paganzo Basin, NW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Palaeoclimatology, Palaeoecology, 2015, 417, 220-235.	2.3	48
57	Early Permian (Asselian) vegetation from a seasonally dry coast in western equatorial Pangea: Palaeoecology and evolutionary significance. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 433, 158-173.	2.3	20
58	Paleoenvironments and age of the Talampaya Formation: The Permo-Triassic boundary in northwestern Argentina. <i>Journal of South American Earth Sciences</i> , 2015, 63, 310-322.	1.4	40
59	Stalagmite records of hydroclimate in central California during termination 1. <i>Quaternary Science Reviews</i> , 2015, 127, 199-214.	3.0	38
60	Meteoric diagenesis and fluid-rock interaction in the Middle Permian Capitan backreef: Yates Formation, Slaughter Canyon, New Mexico. <i>AAPG Bulletin</i> , 2014, 98, 1495-1519.	1.5	43
61	Millennial-scale variations in western Sierra Nevada precipitation during the last glacial cycle MIS 4/3 transition. <i>Quaternary Research</i> , 2014, 82, 236-248.	1.7	29
62	Climate- and eustasy-driven cyclicity in Pennsylvanian fusulinid assemblages, Donets Basin (Ukraine). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 396, 41-61.	2.3	13
63	Reassessment of mid-Carboniferous glacial extent in southwestern Gondwana (Rio Blanco Basin.) Tj ETQq1 1 0.784314 rgBT /Overlock 19	6.0	19
64	Late Paleozoic continental warming of a cold tropical basin and floristic change in western Pangea. <i>International Journal of Coal Geology</i> , 2013, 119, 177-186.	5.0	53
65	Paleoenvironmental clues archived in non-marine Pennsylvanian "lower Permian limestones of the Central Appalachian Basin, USA. <i>International Journal of Coal Geology</i> , 2013, 119, 41-55.	5.0	16
66	Modern soil system constraints on reconstructing deep-time atmospheric CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 57-75.	3.9	68
67	The Late Paleozoic Ice Age: An Evolving Paradigm. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 629-656.	11.0	459
68	A paleotropical carbonate-dominated archive of carboniferous icehouse dynamics, Bird Spring Fm., Southern Great Basin, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 329-330, 64-82.	2.3	39
69	Eccentricity-paced late Paleozoic climate change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 331-332, 150-161.	2.3	87
70	Diagenetic evaluation of a Pennsylvanian carbonate succession (Bird Spring Formation, Arrow) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 26-39.	3.3	60
71	Response of a modern cave system to large seasonal precipitation variability. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 92-108.	3.9	90
72	A Basal Dinosaur from the Dawn of the Dinosaur Era in Southwestern Pangaea. <i>Science</i> , 2011, 331, 206-210.	12.6	276

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73	A pedogenic goethite record of soil CO ₂ variations as a response to soil moisture content. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7099-7116.	3.9	14
74	A Proxy for Humidity and Floral Province from Paleosols. <i>Journal of Geology</i> , 2011, 119, 559-573.	1.4	29
75	Registro de la relación isotópica de carbono en la paleoflora de la Formación Ischigualasto (Triásico) Tj ETQq1 1 0.784314 rgBT /C 2011, 14, 39-50.	0.4	16
76	Cyclic changes in Pennsylvanian paleoclimate and effects on floristic dynamics in tropical Pangaea. <i>International Journal of Coal Geology</i> , 2010, 83, 329-344.	5.0	128
77	Dynamic Carboniferous climate change, Arrow Canyon, Nevada. , 2010, 6, 1-34.		78
78	Modeling speleothem $\delta^{13}C$ variability in a central Sierra Nevada cave using ^{14}C and $^{87}Sr/^{86}Sr$. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5228-5242.	3.9	61
79	Climate and vegetational regime shifts in the late Paleozoic ice age earth. <i>Geobiology</i> , 2009, 7, 200-226.	2.4	178
80	Late Pleistocene California droughts during deglaciation and Arctic warming. <i>Earth and Planetary Science Letters</i> , 2009, 288, 434-443.	4.4	64
81	The onset of mid-Carboniferous glacio-eustasy: Sedimentologic and diagenetic constraints, Arrow Canyon, Nevada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 276, 217-243.	2.3	75
82	Stratigraphy and architecture of the Upper Triassic Ischigualasto Formation, Ischigualasto Provincial Park, San Juan, Argentina. <i>Journal of South American Earth Sciences</i> , 2009, 27, 74-87.	1.4	81
83	Special issue on the late Paleozoic Earth system. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 268, 123-125.	2.3	1
84	Toward an orbital chronology for the early Aptian Oceanic Anoxic Event (OAE1a, ~120 Ma). <i>Earth and Planetary Science Letters</i> , 2008, 271, 88-100.	4.4	130
85	Paleosol archives of environmental and climatic history in paleotropical western Pangea during the latest Pennsylvanian through Early Permian. , 2008, , 291-303.		28
86	CO ₂ -Forced Climate and Vegetation Instability During Late Paleozoic Deglaciation. <i>Science</i> , 2007, 315, 87-91.	12.6	464
87	Late Paleozoic tropical climate response to Gondwanan deglaciation. <i>Geology</i> , 2007, 35, 771.	4.4	143
88	Differentiating the Bishop ash bed and related tephra layers by elemental-based similarity coefficients of volcanic glass shards using solution inductively coupled plasma-mass spectrometry (S-ICP-MS). <i>Quaternary International</i> , 2007, 166, 79-86.	1.5	12
89	$\delta^{13}C$ values of carbonate nodules across the Permian-Triassic boundary in the Karoo Supergroup (South Africa) reflect a stinking sulfurous swamp, not atmospheric CO ₂ . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 252, 370-381.	2.3	69
90	Timing and local perturbations to the carbon pool in the lower Mississippian Madison Limestone, Montana and Wyoming. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 256, 231-253.	2.3	32

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91	Multi-carbonate component reconstruction of mid-carboniferous (Chesterian) seawater $\delta^{13}C$. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 256, 298-318.	2.3	37
92	Using U-Pb ages of Miocene tufa for correlation in a terrestrial succession, Barstow Formation, California. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 276.	3.3	20
93	Oxygen and hydrogen isotope compositions of Permian pedogenic phyllosilicates: Development of modern surface domain arrays and implications for paleotemperature reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 127-146.	2.3	75
94	Climatically driven glacial-interglacial variations in C3 and C4 plant proportions on the Chinese Loess Plateau. <i>Geology</i> , 2004, 32, 337.	4.4	82
95	Morphology and distribution of fossil soils in the Permo-Pennsylvanian Wichita and Bowie Groups, north-central Texas, USA: implications for western equatorial Pangean palaeoclimate during icehouse-greenhouse transition. <i>Sedimentology</i> , 2004, 51, 851-884.	3.1	116
96	Petrographic and trace element analysis of uranium-rich tufa calcite, middle Miocene Barstow Formation, California, USA. <i>Sedimentology</i> , 2004, 51, 433-453.	3.1	33
97	Mineralogical and geochemical evolution of a basalt-hosted fossil soil (Late Triassic, Ischigualasto) Tj ETQq1 1 0.784314 rgBT /Overlooked Geological Society of America, 2004, 116, 1280.	3.3	53
98	Goethite, calcite, and organic matter from Permian and Triassic soils: carbon isotopes and CO ₂ concentrations 1 Associate editor: M. Goldhaber. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1503-1517.	3.9	56
99	CO ₂ as a primary driver of Phanerozoic climate. <i>GSA Today</i> , 2004, 14, 4.	2.0	467
100	It's All About Dating: From Nexters to Climate Change. <i>Palaios</i> , 2003, 18, 299-300.	1.3	2
101	Shifts in late Paleozoic atmospheric circulation over western equatorial Pangea: Insights from pedogenic mineral $\delta^{18}O$ compositions. <i>Geology</i> , 2002, 30, 1127.	4.4	98
102	Biological skeletal carbonate records changes in major-ion chemistry of paleo-oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15852-15854.	7.1	24
103	Paleoenvironmental reconstruction from chemical and isotopic compositions of Permo-Pennsylvanian pedogenic minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3093-3107.	3.9	55
104	Morphology and Stable and Radiogenic Isotope Composition of Pedogenic Carbonates in Late Quaternary Relict Soils, New Mexico, U.S.A.: An Integrated Record of Pedogenic Overprinting. <i>Journal of Sedimentary Research</i> , 2002, 72, 809-822.	1.6	58
105	⁴⁰ Ar/ ³⁹ Ar dating of Late Permian evaporites, southeastern New Mexico, USA. <i>Earth and Planetary Science Letters</i> , 2001, 193, 539-547.	4.4	29
106	Morphology and isotope heterogeneity of Late Quaternary pedogenic carbonates: Implications for paleosol carbonates as paleoenvironmental proxies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 166, 293-317.	2.3	69
107	Cyclic variations of uranium concentrations and oxygen isotopes in tufa from the middle Miocene Barstow Formation, Mojave Desert, California. <i>Geology</i> , 2001, 29, 139.	4.4	19
108	Hypersaline Burial Diagenesis Delineated by Component Isotopic Analysis, Late Paleozoic Limestones, West Texas. <i>Journal of Sedimentary Research</i> , 2001, 71, 372-379.	1.6	14

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109	Modified Fischer Plots as Graphical Tools for Evaluating Thickness Patterns in Stratigraphic Successions. <i>Journal of Geoscience Education</i> , 2000, 48, 179-183.	1.4	9
110	Sequence Stratigraphy of Lower Cretaceous (Barremian-Albian) Carbonate Platforms of Northeastern Mexico: Regional and Global Correlations. <i>Journal of Sedimentary Research</i> , 2000, 70, 373-391.	1.6	60
111	Evolution of Cupido and Coahuila carbonate platforms, Early Cretaceous, northeastern Mexico. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 1010-1029.	3.3	89
112	Integrated Sr isotope variations and sea-level history of Middle to Upper Cambrian platform carbonates: Implications for the evolution of Cambrian seawater $87\text{Sr}/86\text{Sr}$. <i>Geology</i> , 1996, 24, 917.	4.4	151
113	Cross-platform architecture of a sequence boundary in mixed siliciclastic-carbonate lithofacies, Middle Cambrian, southern Great Basin, USA. <i>Sedimentology</i> , 1996, 43, 197-217.	3.1	65
114	Eustatic control on early dolomitization of cyclic peritidal carbonates: Evidence from the Early Ordovician Upper Knox Group, Appalachians. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 872-886.	3.3	78
115	Alleghenian Regional Diagenesis: A Response to the Migration of Modified Metamorphic Fluids Derived from beneath the Blue Ridge-Piedmont Thrust Sheet. <i>Journal of Geology</i> , 1992, 100, 339-352.	1.4	35