

# Isabel P MontaÑez

## List of Publications by Year in descending order

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115  
papers

7,020  
citations

53794

45  
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62596

80  
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118  
all docs

118  
docs citations

118  
times ranked

4418  
citing authors

#	ARTICLE	IF	CITATIONS
1	CO <sub>2</sub> as a primary driver of Phanerozoic climate. <i>GSA Today</i> , 2004, 14, 4.	2.0	467
2	CO <sub>2</sub> -Forced Climate and Vegetation Instability During Late Paleozoic Deglaciation. <i>Science</i> , 2007, 315, 87-91.	12.6	464
3	The Late Paleozoic Ice Age: An Evolving Paradigm. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 629-656.	11.0	459
4	A Basal Dinosaur from the Dawn of the Dinosaur Era in Southwestern Pangaea. <i>Science</i> , 2011, 331, 206-210.	12.6	276
5	Past climates inform our future. <i>Science</i> , 2020, 370, .	12.6	253
6	Climate, pCO <sub>2</sub> and terrestrial carbon cycle linkages during late Palaeozoic glacial–interglacial cycles. <i>Nature Geoscience</i> , 2016, 9, 824-828.	12.9	189
7	Climate and vegetational regime shifts in the late Paleozoic ice age earth. <i>Geobiology</i> , 2009, 7, 200-226.	2.4	178
8	Integrated Sr isotope variations and sea-level history of Middle to Upper Cambrian platform carbonates: Implications for the evolution of Cambrian seawater <sup>87</sup> Sr/ <sup>86</sup> Sr. <i>Geology</i> , 1996, 24, 917.	4.4	151
9	Late Paleozoic tropical climate response to Gondwanan deglaciation. <i>Geology</i> , 2007, 35, 771.	4.4	143
10	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
11	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
12	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
13	Shifts in late Paleozoic atmospheric circulation over western equatorial Pangea: Insights from pedogenic mineral δ <sup>18</sup> O compositions. <i>Geology</i> , 2002, 30, 1127.	4.4	98
14	Chronostratigraphy and Paleoclimatology of the Lodève Basin, France: Evidence for a pan-tropical aridification event across the Carboniferous–Permian boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 430, 118-131.	2.3	98
15	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
16	Strontium and carbon isotopic evidence for decoupling of pCO <sub>2</sub> from continental weathering at the apex of the late Paleozoic glaciation. <i>Geology</i> , 2018, 46, 395-398.	4.4	91
17	Response of a modern cave system to large seasonal precipitation variability. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 92-108.	3.9	90
18	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

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19	Eccentricity-paced late Paleozoic climate change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 331-332, 150-161.	2.3	87
20	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
21	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
22	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
23	Dynamic Carboniferous climate change, Arrow Canyon, Nevada. , 2010, 6, 1-34.		78
24	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
25	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
26	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
27	$\delta^{13}\text{C}$ values of carbonate nodules across the Permian–Triassic boundary in the Karoo Supergroup (South Africa) reflect a stinking sulfurous swamp, not atmospheric $\text{CO}_2$ . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 252, 370-381.	2.3	69
28	Modern soil system constraints on reconstructing deep-time atmospheric $\text{CO}_2$ . <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 57-75.	3.9	68
29	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
30	Influence of temporally varying weatherability on $\text{CO}_2$ -climate coupling and ecosystem change in the late Paleozoic. <i>Climate of the Past</i> , 2020, 16, 1759-1775.	3.4	66
31	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
32	Late Pleistocene California droughts during deglaciation and Arctic warming. <i>Earth and Planetary Science Letters</i> , 2009, 288, 434-443.	4.4	64
33	Dynamic Carboniferous tropical forests: new views of plant function and potential for physiological forcing of climate. <i>New Phytologist</i> , 2017, 215, 1333-1353.	7.3	64
34	Modeling speleothem $\delta^{13}\text{C}$ variability in a central Sierra Nevada cave using $^{14}\text{C}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ . <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5228-5242.	3.9	61
35	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
36	Diagenetic evaluation of a Pennsylvanian carbonate succession (Bird Spring Formation, Arrow) $\text{Tj ETQqO O O rgBT /Overlock 10 Tf 50 67}$ 26-39.	3.3	60

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37	The evolution of the global selenium cycle: Secular trends in Se isotopes and abundances. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 109-125.	3.9	59
38	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
39	Goethite, calcite, and organic matter from Permian and Triassic soils: carbon isotopes and CO <sub>2</sub> concentrations 1 Associate editor: M. Goldhaber. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1503-1517.	3.9	56
40	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
41	Mineralogical and geochemical evolution of a basalt-hosted fossil soil (Late Triassic, Ischigualasto) Tj ETQq1 1 0.784314 rgBT /Overlock Geological Society of America, 2004, 116, 1280.	3.3	53
42	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
43	A Late Paleozoic climate window of opportunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2334-2336.	7.1	51
44	Late Pennsylvanian aridification on the southwestern margin of Gondwana (Paganzo Basin, NW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Palaeoclimatology, Palaeoecology, 2015, 417, 220-235.	2.3	48
45	Assessing response of local moisture conditions in central Brazil to variability in regional monsoon intensity using speleothem <sup>87</sup> Sr/ <sup>86</sup> Sr values. <i>Earth and Planetary Science Letters</i> , 2017, 463, 310-322.	4.4	48
46	Astronomical constraints on global carbon-cycle perturbation during Oceanic Anoxic Event 2 (OAE2). <i>Earth and Planetary Science Letters</i> , 2017, 462, 35-46.	4.4	47
47	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
48	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
49	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
50	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
51	Stalagmite records of hydroclimate in central California during termination 1. <i>Quaternary Science Reviews</i> , 2015, 127, 199-214.	3.0	38
52	Current synthesis of the penultimate icehouse and its imprint on the Upper Devonian through Permian stratigraphic record. <i>Geological Society Special Publication</i> , 2022, 512, 213-245.	1.3	38
53	Multi-carbonate component reconstruction of mid-carboniferous (Chesterian) seawater $\delta^{13}C$ . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 256, 298-318.	2.3	37
54	Evolutionary differences in $\delta^{13}C$ detected between spore and seed bearing plants following exposure to a range of atmospheric O <sub>2</sub> :CO <sub>2</sub> ratios; implications for paleoatmosphere reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 517-533.	3.9	37

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55	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
56	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
57	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 448, 162-178.	2.3	33
58	Was climatic cooling during the earliest Carboniferous driven by expansion of seed plants?. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116953.	4.4	33
59	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
60	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
61	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
62	$^{40}\text{Ar}/^{39}\text{Ar}$ dating of Late Permian evaporites, southeastern New Mexico, USA. <i>Earth and Planetary Science Letters</i> , 2001, 193, 539-547.	4.4	29
63	A Proxy for Humidity and Floral Province from Paleosols. <i>Journal of Geology</i> , 2011, 119, 559-573.	1.4	29
64	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
65	Late Mississippian glacio-eustasy recorded in the eastern Paleo-Tethys Ocean (South China). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 531, 108873.	2.3	29
66	Paleosol archives of environmental and climatic history in paleotropical western Pangea during the latest Pennsylvanian through Early Permian. , 2008, , 291-303.		28
67	<a href="#">Carboniferous climate teleconnections archived in coupled biapatite</a> $\delta^{18}\text{O}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ re. <i>Earth and Planetary Science Letters</i> , 2018, 492, 89-101.	4.4	28
68	Changes in $\text{CO}_2$ 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
69	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
70	Marine anoxia linked to abrupt global warming during Earth's penultimate icehouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115231119.	7.1	24
71	Reconstructing Extinct Plant Water Use for Understanding Vegetation's Climate Feedbacks: Methods, Synthesis, and a Case Study Using the Paleozoic-Era Medullosan Seed Ferns. <i>The Paleontological Society Papers</i> , 2015, 21, 167-196.	0.6	23
72	Eccentricity and obliquity paced carbon cycling in the Early Triassic and implications for post-extinction ecosystem recovery. <i>Scientific Reports</i> , 2016, 6, 27793.	3.3	23

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73	Testing the accuracy of new paleoatmospheric CO <sub>2</sub> proxies based on plant stable carbon isotopic composition and stomatal traits in a range of simulated paleoatmospheric O <sub>2</sub> :CO <sub>2</sub> ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 69-90.	3.9	23
74	Evolution of moisture transport to the western U.S. during the last deglaciation. <i>Geophysical Research Letters</i> , 2016, 43, 3468-3477.	4.0	22
75	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
76	Early Permian (Asselian) vegetation from a seasonally dry coast in western equatorial Pangea: Paleoecology and evolutionary significance. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 433, 158-173.	2.3	20
77	Fjord network in Namibia: A snapshot into the dynamics of the late Paleozoic glaciation. <i>Geology</i> , 2021, 49, 1521-1526.	4.4	20
78	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
79	Reassessment of mid-Carboniferous glacial extent in southwestern Gondwana (Rio Blanco Basin, Tj ETQq1 1 0.784314 rgBT / Overlook	6.0	19
80	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
81	Carboniferous plant physiology breaks the mold. <i>New Phytologist</i> , 2020, 227, 667-679.	7.3	18
82	A process-based ecosystem model (Paleo-BGC) to simulate the dynamic response of Late Carboniferous plants to elevated O <sub>2</sub> and aridification. <i>Numerische Mathematik</i> , 2020, 320, 547-598.	1.4	17
83	A high-precision U-Pb zircon age constraints the timing of the faunistic and palynofloristic events of the Carnian Ischigualasto Formation, San Juan, Argentina. <i>Journal of South American Earth Sciences</i> , 2021, 111, 103433.	1.4	17
84	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
85	Registro de la relación isotópica de carbono en la paleoflora de la Formación Ischigualasto (Triásico) Tj ETQq1 1 0.784314 rgBT / C	0.4	16
86	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
87	A pedogenic goethite record of soil CO <sub>2</sub> variations as a response to soil moisture content. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7099-7116.	3.9	14
88	Climate- and eustasy-driven cyclicity in Pennsylvanian fusulinid assemblages, Donets Basin (Ukraine). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 396, 41-61.	2.3	13
89	Paleosol Diagenesis and Its Deep-Time Paleoenvironmental Implications, Pennsylvanian-Permian Lodève Basin, France. <i>Journal of Sedimentary Research</i> , 2016, 86, 813-829.	1.6	13
90	Modeled physiological mechanisms for observed changes in the late Paleozoic plant fossil record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 562, 110056.	2.3	13

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91	A mechanistic understanding of oxygen isotopic changes in the Western United States at the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2021, 274, 107255.	3.0	13
92	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
93	Enhanced ocean connectivity and volcanism instigated global onset of Cretaceous Oceanic Anoxic Event 2 (OAE2) ~149.5 million years ago. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117331.	4.4	12
94	Freeze tolerance influenced forest cover and hydrology during the Pennsylvanian. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
95	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
96	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
97	A refined protocol for $\delta^{18}O_{PO4}$ analysis of conodont bioapatite. <i>Chemical Geology</i> , 2015, 417, 11-20.	3.3	9
98	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
99	Simulation of oxygen isotopes and circulation in a late Carboniferous epicontinental sea with implications for proxy records. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116770.	4.4	9
100	The Late Palaeozoic Ice Age unconformity in southern Namibia viewed as a patchwork mosaic. <i>Depositional Record</i> , 2022, 8, 419-435.	1.7	8
101	Carboniferous isotope stratigraphy. <i>Geological Society Special Publication</i> , 2022, 512, 197-211.	1.3	7
102	Provenance of late Paleozoic glacial/post-glacial deposits in the eastern Chaco-Paraná Basin, Uruguay and southernmost Paraná Basin, Brazil. <i>Journal of South American Earth Sciences</i> , 2021, 106, 102989.	1.4	5
103	Geologic variability of conodont strontium isotopic composition quantified by laser ablation multiple collection inductively coupled plasma mass spectrometry. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 568, 110308.	2.3	5
104	A glimpse of a Gondwanan postglacial fossil forest. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 588, 110814.	2.3	5
105	Variability in effective moisture inferred from inclusion fluid $\delta^{18}O$ and $\delta^2H$ values in a central Sierra Nevada stalagmite (CA). <i>Quaternary Science Reviews</i> , 2022, 279, 107399.	3.0	5
106	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). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> 430, 118-131. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 1000-1004.	2.3	4
107	Diagenesis. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 353-362.	0.1	3
108	Late Permian soil-forming paleoenvironments on Gondwana: A review. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 586, 110762.	2.3	3



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109	It's All About Dating: From Nexters to Climate Change. <i>Palaios</i> , 2003, 18, 299-300.	1.3	2
110	Special issue on the late Paleozoic Earth system. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 268, 123-125.	2.3	1
111	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
112	REVISITING EARLY PERMIAN CO2 VIA IMPROVED INPUT PARAMETERS AND MODELS. , 2017, , .		1
113	FOSSILIZED DRIP-WATER FROM A SIERRA NEVADA CAVE REVEALS CHANGING CONDITIONS OVER THE NORTH PACIFIC DURING THE LAST DEGLACIATION. , 2017, , .		1
114	Monitoring of Sierra Nevada Caves Reveals the Potential for Stalagmites to Archive Seasonal Variability. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
115	Diagenesis. <i>Encyclopedia of Earth Sciences Series</i> , 2017, , 1-11.	0.1	0