

Yannick Donnadieu

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

5,928
citations

71061

41
h-index

79644

73
g-index

141
all docs

141
docs citations

141
times ranked

5135
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic evolution of phytoplankton forced by changes in tropical seasonality. <i>Nature</i> , 2022, 601, 79-84.	13.7	26
2	Assessing Volcanic Controls on Miocene Climate Change. <i>Geophysical Research Letters</i> , 2022, 49, e2021GL096519.	1.5	10
3	Evolution of continental temperature seasonality from the Eocene greenhouse to the Oligocene icehouse – a model–data comparison. <i>Climate of the Past</i> , 2022, 18, 341-362.	1.3	10
4	Early Eocene Ocean Meridional Overturning Circulation: The Roles of Atmospheric Forcing and Strait Geometry. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	1.3	11
5	Neogene South Asian monsoon rainfall and wind histories diverged due to topographic effects. <i>Nature Geoscience</i> , 2022, 15, 314-319.	5.4	22
6	African Hydroclimate During the Early Eocene From the DeepMIP Simulations. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	1.3	3
7	The complex response of continental silicate rock weathering to the colonization of the continents by vascular plants in the Devonian. <i>Numerische Mathematik</i> , 2022, 322, 461-492.	0.7	5
8	Simulation of Arctic sea ice within the DeepMIP Eocene ensemble: Thresholds, seasonality and factors controlling sea ice development. <i>Global and Planetary Change</i> , 2022, 214, 103848.	1.6	1
9	DeepMIP: model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data. <i>Climate of the Past</i> , 2021, 17, 203-227.	1.3	71
10	Spatial continuous integration of Phanerozoic global biogeochemistry and climate. <i>Gondwana Research</i> , 2021, 100, 73-86.	3.0	31
11	Simulating Miocene Warmth: Insights From an Opportunistic Multi-Model Ensemble (MioMIP1). <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004054.	1.3	52
12	Quantitative comparison of geological data and model simulations constrains early Cambrian geography and climate. <i>Nature Communications</i> , 2021, 12, 3868.	5.8	15
13	Exploring the Impact of Cenomanian Paleogeography and Marine Gateways on Oceanic Oxygen. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004202.	1.3	9
14	Orbital variations as a major driver of climate and biome distribution during the greenhouse to icehouse transition. <i>Science Advances</i> , 2021, 7, eabh2819.	4.7	22
15	Extinction intensity during Ordovician and Cenozoic glaciations explained by cooling and palaeogeography. <i>Nature Geoscience</i> , 2020, 13, 65-70.	5.4	39
16	Cenozoic evolution of the steppe-desert biome in Central Asia. <i>Science Advances</i> , 2020, 6, .	4.7	79
17	The origin of Asian monsoons: a modelling perspective. <i>Climate of the Past</i> , 2020, 16, 847-865.	1.3	37
18	Quantifying the Effect of the Drake Passage Opening on the Eocene Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003889.	1.3	33

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19	Carbonate platform production during the Cretaceous. Bulletin of the Geological Society of America, 2020, 132, 2606-2610.	1.6	11
20	Early Eocene vigorous ocean overturning and its contribution to a warm Southern Ocean. Climate of the Past, 2020, 16, 1263-1283.	1.3	13
21	Stripping back the modern to reveal the Cenomanian–Turonian climate and temperature gradient underneath. Climate of the Past, 2020, 16, 953-971.	1.3	19
22	IPSL-CM5A2 – an Earth system model designed for multi-millennial climate simulations. Geoscientific Model Development, 2020, 13, 3011-3053.	1.3	55
23	Response to Comment on “Revised paleoaltimetry data show low Tibetan Plateau elevation during the Eocene”. Science, 2019, 365, .	6.0	3
24	Marine carbonate factories: a global model of carbonate platform distribution. International Journal of Earth Sciences, 2019, 108, 1773-1792.	0.9	37
25	Investigating Ocean Deoxygenation During the PETM Through the Cr Isotopic Signature of Foraminifera. Paleoceanography and Paleoclimatology, 2019, 34, 917-929.	1.3	14
26	Revised paleoaltimetry data show low Tibetan Plateau elevation during the Eocene. Science, 2019, 363, .	6.0	155
27	Some Illustrations of Large Tectonically Driven Climate Changes in Earth History. Tectonics, 2019, 38, 4454-4464.	1.3	7
28	Quantifying the paleogeographic driver of Cretaceous carbonate platform development using paleoecological niche modeling. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 514, 222-232.	1.0	20
29	A sink- or a source-driven carbon cycle at the geological timescale? Relative importance of palaeogeography versus solid Earth degassing rate in the Phanerozoic climatic evolution. Geological Magazine, 2019, 156, 355-365.	0.9	13
30	Meridional Contrasts in Productivity Changes Driven by the Opening of Drake Passage. Paleoceanography and Paleoclimatology, 2018, 33, 302-317.	1.3	18
31	The influence of orography on modern ocean circulation. Climate Dynamics, 2018, 50, 1277-1289.	1.7	28
32	Possible patterns of marine primary productivity during the Great Ordovician Biodiversification Event. Lethaia, 2018, 51, 187-197.	0.6	17
33	Ocean Circulation in the Toarcian (Early Jurassic): A Key Control on Deoxygenation and Carbon Burial on the European Shelf. Paleoceanography and Paleoclimatology, 2018, 33, 994-1012.	1.3	59
34	An early Cambrian greenhouse climate. Science Advances, 2018, 4, eaar5690.	4.7	67
35	Onset and ending of the late Palaeozoic ice age triggered by tectonically paced rock weathering. Nature Geoscience, 2017, 10, 382-386.	5.4	134
36	The climatic significance of Late Ordovician–early Silurian black shales. Paleoceanography, 2017, 32, 397-423.	3.0	42

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37	Paleogeographic forcing of the strontium isotopic cycle in the Neoproterozoic. <i>Gondwana Research</i> , 2017, 42, 151-162.	3.0	38
38	Reconstructing first-order changes in sea level during the Phanerozoic and Neoproterozoic using strontium isotopes. <i>Gondwana Research</i> , 2017, 44, 22-34.	3.0	57
39	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017, 3, e1600983.	4.7	424
40	The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). <i>Geoscientific Model Development</i> , 2017, 10, 889-901.	1.3	90
41	Impacts of Tibetan Plateau uplift on atmospheric dynamics and associated precipitation <i>O. Climate of the Past, 2016, 12, 1401-1420.	1.3	38
42	Glacial onset predated Late Ordovician climate cooling. <i>Paleoceanography</i> , 2016, 31, 800-821.	3.0	79
43	High dependence of Ordovician ocean surface circulation on atmospheric CO2 levels. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 458, 39-51.	1.0	61
44	High potential for weathering and climate effects of non-vascular vegetation in the Late Ordovician. <i>Nature Communications</i> , 2016, 7, 12113.	5.8	72
45	Palaeogeographic regulation of glacial events during the Cretaceous supergreenhouse. <i>Nature Communications</i> , 2016, 7, 12771.	5.8	54
46	A better-ventilated ocean triggered by Late Cretaceous changes in continental configuration. <i>Nature Communications</i> , 2016, 7, 10316.	5.8	73
47	Evolution of neodymium isotopic signature of seawater during the Late Cretaceous: Implications for intermediate and deep circulation. <i>Gondwana Research</i> , 2016, 36, 503-522.	3.0	28
48	Geochemical consequences of intense pulse-like degassing during the onset of the Central Atlantic Magmatic Province. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 74-82.	1.0	13
49	Did high Neo-Tethys subduction rates contribute to early Cenozoic warming?. <i>Climate of the Past</i> , 2015, 11, 1751-1767.	1.3	19
50	Orbitally forced ice sheet fluctuations during the Marinoan Snowball Earth glaciation. <i>Nature Geoscience</i> , 2015, 8, 704-707.	5.4	59
51	Links between CO ₂ , glaciation and water flow: reconciling the Cenozoic history of the Antarctic Circumpolar Current. <i>Climate of the Past</i> , 2014, 10, 1957-1966.	1.3	21
52	The faint young Sun problem revisited with a 3-D climateâ€œcarbon model â€œ Part 1. <i>Climate of the Past</i> , 2014, 10, 697-713.	1.3	9
53	Effect of the Ordovician paleogeography on the (in)stability of the climate. <i>Climate of the Past</i> , 2014, 10, 2053-2066.	1.3	44
54	Consequences of shoaling of the Central American Seaway determined from modeling Nd isotopes. <i>Paleoceanography</i> , 2014, 29, 176-189.	3.0	83

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55	Neoproterozoic Atmospheres and Glaciation. , 2014, , 217-229.		3
56	Error analysis of CO ₂ and O ₂ estimates from the long-term geochemical model GEOCARBSULF. Numerische Mathematik, 2014, 314, 1259-1283.	0.7	119
57	Investigating the Paleoproterozoic glaciations with 3-D climate modeling. Earth and Planetary Science Letters, 2014, 395, 71-80.	1.8	20
58	Tectonic-driven climate change and the diversification of angiosperms. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14066-14070.	3.3	85
59	Asian monsoons in a late Eocene greenhouse world. Nature, 2014, 513, 501-506.	13.7	386
60	The role of palaeogeography in the Phanerozoic history of atmospheric CO ₂ and climate. Earth-Science Reviews, 2014, 128, 122-138.	4.0	125
61	The respective role of atmospheric carbon dioxide and orbital parameters on ice sheet evolution at the Eocene-Oligocene transition. Paleoceanography, 2014, 29, 810-823.	3.0	67
62	A 100 Myr history of the carbon cycle based on the 400 kyr cycle in marine $\delta^{13}C$ benthic records. Paleoceanography, 2014, 29, 1249-1255.	3.0	12
63	Evolution of the neodymium isotopic signature of neritic seawater on a northwestern Pacific margin: new constrains on possible end-members for the composition of deep-water masses in the Late Cretaceous ocean. Chemical Geology, 2013, 356, 160-170.	1.4	20
64	Was the Antarctic glaciation delayed by a high degassing rate during the early Cenozoic?. Earth and Planetary Science Letters, 2013, 371-372, 203-211.	1.8	27
65	High sensitivity of the continental-weathering carbon dioxide sink to future climate change. Nature Climate Change, 2012, 2, 346-349.	8.1	196
66	Growth of subtropical forests in Miocene Europe: The roles of carbon dioxide and Antarctic ice volume. Geology, 2012, 40, 567-570.	2.0	20
67	Modeling evidences for global warming, Arctic seawater freshening, and sluggish oceanic circulation during the Early Toarcian anoxic event. Paleoceanography, 2012, 27, .	3.0	104
68	Deciphering the role of southern gateways and carbon dioxide on the onset of the Antarctic Circumpolar Current. Paleoceanography, 2012, 27, .	3.0	42
69	Nutrients as the dominant control on the spread of anoxia and euxinia across the Cenomanian-Turonian oceanic anoxic event (OAE2): Model-data comparison. Paleoceanography, 2012, 27, .	3.0	153
70	Tectonic control of continental weathering, atmospheric CO ₂ , and climate over Phanerozoic times. Comptes Rendus - Geoscience, 2012, 344, 652-662.	0.4	30
71	The Aptian evaporites of the South Atlantic: a climatic paradox?. Climate of the Past, 2012, 8, 1047-1058.	1.3	35
72	A mechanism for brief glacial episodes in the Mesozoic greenhouse. Paleoceanography, 2011, 26, .	3.0	61

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73	The climate change caused by the land plant invasion in the Devonian. <i>Earth and Planetary Science Letters</i> , 2011, 310, 203-212.	1.8	92
74	GEOCLIM <i>reloaded</i> (v 1.0): a new coupled earth system model for past climate change. <i>Geoscientific Model Development</i> , 2011, 4, 451-481.	1.3	20
75	Chapter 10 Modelling the Snowball Earth. <i>Geological Society Memoir</i> , 2011, 36, 151-161.	0.9	1
76	Modeling the early Paleozoic long-term climatic trend. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 1181-1192.	1.6	97
77	Toward the snowball earth deglaciation. <i>Climate Dynamics</i> , 2010, 35, 285-297.	1.7	42
78	Investigating boron isotopes in a middle Jurassic micritic sequence: Primary vs. diagenetic signal. <i>Chemical Geology</i> , 2010, 275, 117-126.	1.4	30
79	Exploring the climatic impact of the continental vegetation on the Mesozoic atmospheric CO ₂ and climate history. <i>Climate of the Past</i> , 2009, 5, 85-96.	1.3	47
80	Climatic plant power. <i>Nature</i> , 2009, 460, 40-41.	13.7	8
81	The snowball Earth aftermath: Exploring the limits of continental weathering processes. <i>Earth and Planetary Science Letters</i> , 2009, 277, 453-463.	1.8	105
82	The tectonic history of Drake Passage and its possible impacts on global climate. <i>Earth and Planetary Science Letters</i> , 2009, 279, 197-211.	1.8	177
83	Carbon cycling and snowball Earth. <i>Nature</i> , 2008, 456, E8-E8.	13.7	6
84	Causal or casual link between the rise of nannoplankton calcification and a tectonically-driven massive decrease in Late Triassic atmospheric CO ₂ . <i>Earth and Planetary Science Letters</i> , 2008, 267, 247-255.	1.8	63
85	Shield effect on continental weathering: Implication for climatic evolution of the Earth at the geological timescale. <i>Geoderma</i> , 2008, 145, 439-448.	2.3	43
86	Scenario for the evolution of atmospheric pCO ₂ during a snowball Earth. <i>Geology</i> , 2008, 36, 47.	2.0	82
87	A geochemical modelling study of the evolution of the chemical composition of seawater linked to a "snowball" glaciation. <i>Biogeosciences</i> , 2008, 5, 253-267.	1.3	30
88	Fish tooth ¹⁸ O revising Late Cretaceous meridional upper ocean water temperature gradients. <i>Geology</i> , 2007, 35, 107.	2.0	88
89	Coupled modeling of global carbon cycle and climate in the Neoproterozoic: links between Rodinia breakup and major glaciations. <i>Comptes Rendus - Geoscience</i> , 2007, 339, 212-222.	0.4	35
90	Investigating plausible mechanisms to trigger a deglaciation from a hard snowball Earth. <i>Comptes Rendus - Geoscience</i> , 2007, 339, 274-287.	0.4	33

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91	Effect of changes in $\delta^{18}O$ content of the surface ocean on estimated sea surface temperatures in past warm climate. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	36
92	A GEOCLIM simulation of climatic and biogeochemical consequences of Pangea breakup. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	114
93	Modelling the primary control of paleogeography on Cretaceous climate. <i>Earth and Planetary Science Letters</i> , 2006, 248, 426-437.	1.8	122
94	Impact of the hydrological cycle on past climate changes: three illustrations at different time scales. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 125-137.	0.4	8
95	Numerical evidence for thermohaline circulation reversals during the Maastrichtian. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	4
96	A "snowball Earth" climate triggered by continental break-up through changes in runoff. <i>Nature</i> , 2004, 428, 303-306.	13.7	292
97	The impact of atmospheric and oceanic heat transports on the sea-ice-albedo instability during the Neoproterozoic. <i>Climate Dynamics</i> , 2004, 22, 293-306.	1.7	44
98	Les glaciations du Protérozoïque. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 639-646.	0.4	12
99	Is there a conflict between the Neoproterozoic glacial deposits and the snowball Earth interpretation: an improved understanding with numerical modeling. <i>Earth and Planetary Science Letters</i> , 2003, 208, 101-112.	1.8	98
100	The Sturtian "snowball" glaciation: fire and ice. <i>Earth and Planetary Science Letters</i> , 2003, 211, 1-12.	1.8	160
101	Bias in the paleoceanographic time series: Tests with a numerical model of U, Corg, and Al burial. <i>Paleoceanography</i> , 2002, 17, 6-16-11.	3.0	3
102	Is high obliquity a plausible cause for Neoproterozoic glaciations?. <i>Geophysical Research Letters</i> , 2002, 29, 42-1-42-4.	1.5	42
103	Global Tectonic Setting and Climate of the Late Neoproterozoic: A Climate-Geochemical Coupled Study. <i>Geophysical Monograph Series</i> , 0, , 79-89.	0.1	5