S L Jaccard

List of Publications by Year
in descending order

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89 papers	7,535 citations	71061 41 h-index	54882 84 g-index
110 all docs	110 docs citations	110 times ranked	7696 citing authors

#	Article	IF	Citations
1	Enhanced Carbonate Counter Pump and upwelling strengths in the Indian sector of the Southern Ocean during MIS 11. Quaternary Science Reviews, 2022, 287, 107556.	1.4	1
2	The influence of deep water circulation on the distribution of 231Pa and 230Th in the Pacific Ocean. Earth and Planetary Science Letters, 2021, 554, 116674.	1.8	4
3	Early deglacial CO2 release from the Sub-Antarctic Atlantic and Pacific oceans. Earth and Planetary Science Letters, 2021, 554, 116649.	1.8	10
4	Redox capacity of rocks and sediments by high temperature chalcometric titration. Chemical Geology, 2021, 564, 120016.	1.4	4
5	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. Global Biogeochemical Cycles, 2021, 35, e2020GB006769.	1.9	46
6	Bioactive Trace Metals and Their Isotopes as Paleoproductivity Proxies: An Assessment Using GEOTRACESâ€Era Data. Global Biogeochemical Cycles, 2021, 35, e2020GB006814.	1.9	42
7	Evolution of Ocean Productivity in the Subâ€Tropical West Pacific Ocean Across the Last Deglaciation. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004250.	1.3	3
8	Opposite dust grain-size patterns in the Pacific and Atlantic sectors of the Southern Ocean during the last 260,000 years. Quaternary Science Reviews, 2021, 263, 106978.	1.4	6
9	Assessment of C, N, and Si Isotopes as Tracers of Past Ocean Nutrient and Carbon Cycling. Global Biogeochemical Cycles, 2021, 35, e2020GB006775.	1.9	7
10	Release from biogenic particles, benthic fluxes, and deep water circulation control Cr and Î′53Cr distributions in the ocean interior. Earth and Planetary Science Letters, 2021, 574, 117163.	1.8	13
11	Deglacial patterns of South Pacific overturning inferred from 231Pa and 230Th. Scientific Reports, 2021, 11, 20473.	1.6	3
12	Modeling the marine chromium cycle: new constraints on global-scale processes. Biogeosciences, 2021, 18, 5447-5463.	1.3	6
13	Biological Control of Chromium Redox and Stable Isotope Composition in the Surface Ocean. Global Biogeochemical Cycles, 2020, 34, e2019GB006397.	1.9	37
14	A Mg(OH)₂ coprecipitation method for determining chromium speciation and isotopic composition in seawater. Limnology and Oceanography: Methods, 2020, 18, 8-19.	1.0	15
15	Water mass gradients of the mid-depth Southwest Atlantic during the past 25,000 years. Earth and Planetary Science Letters, 2020, 531, 115963.	1.8	10
16	Southern Ocean link between changes in atmospheric CO2 levels and northern-hemisphere climate anomalies during the last two glacial periods. Quaternary Science Reviews, 2020, 230, 106067.	1.4	20
17	Deep Pacific storage of respired carbon during the last ice age: Perspectives from bottom water oxygen reconstructions. Quaternary Science Reviews, 2020, 230, 106065.	1.4	40
18	Glacial heterogeneity in Southern Ocean carbon storage abated by fast South Indian deglacial carbon release. Nature Communications, 2020, 11, 6192.	5.8	27

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19	Contrasting Upper and Deep Ocean Oxygen Response to Protracted Global Warming. Global Biogeochemical Cycles, 2020, 34, e2020GB006601.	1.9	24
20	Materials and pathways of the organic carbon cycle through time. Nature Geoscience, 2020, 13, 535-546.	5.4	26
21	Southern Ocean upwelling, Earthâ€™s obliquity, and glacial-interglacial atmospheric CO ₂ change. Science, 2020, 370, 1348-1352.	6.0	57
22	Northern-sourced water dominated the Atlantic Ocean during the Last Glacial Maximum. Geology, 2020, 48, 826-829.	2.0	25
23	Chromium reduction and associated stable isotope fractionation restricted to anoxic shelf waters in the Peruvian Oxygen Minimum Zone. Geochimica Et Cosmochimica Acta, 2020, 285, 207-224.	1.6	28
24	²³⁰Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003820.	1.3	56
25	Trace metal and nutrient dynamics across broad biogeochemical gradients in the Indian and Pacific sectors of the Southern Ocean. Marine Chemistry, 2020, 221, 103773.	0.9	28
26	A global database of Holocene paleotemperature records. Scientific Data, 2020, 7, 115.	2.4	112
27	Glacial-interglacial dust and export production records from the Southern Indian Ocean. Earth and Planetary Science Letters, 2019, 525, 115716.	1.8	30
28	Chromium biogeochemistry and stable isotope distribution in the Southern Ocean. Geochimica Et Cosmochimica Acta, 2019, 262, 188-206.	1.6	40
29	Mechanisms of millennial-scale atmospheric CO2 change in numerical model simulations. Quaternary Science Reviews, 2019, 220, 30-74.	1.4	46
30	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. Paleoceanography and Paleoclimatology, 2019, 34, 1570-1596.	1.3	30
31	Constraining the Variability of the Atlantic Meridional Overturning Circulation During the Holocene. Geophysical Research Letters, 2019, 46, 11338-11346.	1.5	43
32	Low terrestrial carbon storage at the Last Glacial Maximum: constraints from multi-proxy data. Climate of the Past, 2019, 15, 849-879.	1.3	38
33	Improving North Atlantic Marine Core Chronologies Using ²³⁰Th Normalization. Paleoceanography and Paleoclimatology, 2019, 34, 1057-1073.	1.3	9
34	The residence time of Southern Ocean surface waters and the 100,000-year ice age cycle. Science, 2019, 363, 1080-1084.	6.0	58
35	Deepâ€Sea Oxygen Depletion and Ocean Carbon Sequestration During the Last Ice Age. Global Biogeochemical Cycles, 2019, 33, 301-317.	1.9	73
36	Push from the Pacific. Nature Geoscience, 2018, 11, 299-300.	5.4	3

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37	Reduced oxygenation at intermediate depths of the southwest Pacific during the last glacial maximum. Earth and Planetary Science Letters, 2018, 491, 48-57.	1.8	12
38	Radiocarbon Measurements of Small-Size Foraminiferal Samples with the Mini Carbon Dating System (MICADAS) at the University of Bern: Implications for Paleoclimate Reconstructions. Radiocarbon, 2018, 60, 469-491.	0.8	35
39	Carbon burial in deep-sea sediment and implications for oceanic inventories of carbon and alkalinity over the last glacial cycle. Climate of the Past, 2018, 14, 1819-1850.	1.3	39
40	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	5.4	166
41	Increased nutrient supply to the Southern Ocean during the Holocene and its implications for the pre-industrial atmospheric CO2 rise. Nature Geoscience, 2018, 11, 756-760.	5.4	40
42	Past Carbonate Preservation Events in the Deep Southeast Atlantic Ocean (Cape Basin) and Their Implications for Atlantic Overturning Dynamics and Marine Carbon Cycling. Paleoceanography and Paleoclimatology, 2018, 33, 643-663.	1.3	11
43	Enhanced ocean-atmosphere carbon partitioning via the carbonate counter pump during the last deglacial. Nature Communications, 2018, 9, 2396.	5.8	20
44	Determination of the Mg/Mn ratio in foraminiferal coatings: An approach to correct Mg/Ca temperatures for Mn-rich contaminant phases. Earth and Planetary Science Letters, 2017, 457, 335-347.	1.8	22
45	Calibration of the carbon isotope composition (Î´¹³C) of benthic foraminifera. Paleoceanography, 2017, 32, 512-530.	3.0	63
46	Export production in the New-Zealand region since the Last Glacial Maximum. Earth and Planetary Science Letters, 2017, 469, 110-122.	1.8	17
47	Millennial-scale ocean dynamics controlled export productivity in the subtropical North Pacific. Geology, 2017, 45, 651-654.	2.0	16
48	New insights into cycling of 231 Pa and 230 Th in the Atlantic Ocean. Earth and Planetary Science Letters, 2017, 468, 27-37.	1.8	34
49	Change in dust seasonality as the primary driver for orbitalâ€scale dust storm variability in East Asia. Geophysical Research Letters, 2017, 44, 3796-3805.	1.5	17
50	Mg/Ca-temperature calibration for the benthic foraminifera Melonis barleeanum and Melonis pompilioides. Geochimica Et Cosmochimica Acta, 2017, 217, 365-383.	1.6	10
51	Active Pacific meridional overturning circulation (PMOC) during the warm Pliocene. Science Advances, 2017, 3, e1700156.	4.7	55
52	Causes of ice age intensification across the Mid-Pleistocene Transition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13114-13119.	3.3	166
53	Changes in the geometry and strength of the Atlantic meridional overturning circulation during the last glacial (20â€“50â€¯ka). Climate of the Past, 2016, 12, 2061-2075.	1.3	22
54	Quantification of biogenic silica by means of Fourier transform infrared spectroscopy (FTIRS) in marine sediments. Limnology and Oceanography: Methods, 2016, 14, 828-838.	1.0	22

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55	Ocean dynamics, not dust, have controlled equatorial Pacific productivity over the past 500,000 years. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6119-6124.	3.3	79
56	Deep water provenance and dynamics of the (de)glacial Atlantic meridional overturning circulation. Earth and Planetary Science Letters, 2016, 445, 68-78.	1.8	88
57	Chromium uptake and adsorption in marine phytoplankton â€“ Implications for the marine chromium cycle. Geochimica Et Cosmochimica Acta, 2016, 184, 41-54.	1.6	58
58	Biological and physical controls in the Southern Ocean on past millennial-scale atmospheric CO2 changes. Nature Communications, 2016, 7, 11539.	5.8	102
59	Global pulses of organic carbon burial in deep-sea sediments during glacial maxima. Nature Communications, 2016, 7, 10796.	5.8	84
60	Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. Geochimica Et Cosmochimica Acta, 2016, 175, 47-67.	1.6	46
61	Covariation of deep Southern Ocean oxygenation and atmospheric CO2 through the last ice age. Nature, 2016, 530, 207-210.	13.7	173
62	Antarctic Zone nutrient conditions during the last two glacial cycles. Paleoceanography, 2015, 30, 845-862.	3.0	88
63	Deglacial weakening of the oceanic soft tissue pump: global constraints from sedimentary nitrogen isotopes and oxygenation proxies. Quaternary Science Reviews, 2015, 109, 38-48.	1.4	59
64	Ocean (De)oxygenation Across the Last Deglaciation: Insights for the Future. Oceanography, 2014, 27, 26-35.	0.5	43
65	Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. Science, 2014, 343, 1347-1350.	6.0	350
66	A stagnation event in the deep South Atlantic during the last interglacial period. Science, 2014, 346, 1514-1517.	6.0	62
67	A new perspective on boundary scavenging in the North Pacific Ocean. Earth and Planetary Science Letters, 2013, 369-370, 86-97.	1.8	34
68	Deglacial pulses of deep-ocean silicate into the subtropical North Atlantic Ocean. Nature, 2013, 495, 495-498.	13.7	75
69	The acceleration of oceanic denitrification during deglacial warming. Nature Geoscience, 2013, 6, 579-584.	5.4	84
70	Direct ventilation of the North Pacific did not reach the deep ocean during the last deglaciation. Geophysical Research Letters, 2013, 40, 199-203.	1.5	46
71	Two Modes of Change in Southern Ocean Productivity Over the Past Million Years. Science, 2013, 339, 1419-1423.	6.0	194
72	Processes and patterns of oceanic nutrient limitation. Nature Geoscience, 2013, 6, 701-710.	5.4	1,627

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73	The dynamics of the marine nitrogen cycle across the last deglaciation. Paleoceanography, 2013, 28, 116-129.	3.0	30
74	Pacific and Atlantic synchronized. Nature Geoscience, 2012, 5, 594-596.	5.4	4
75	A review of nitrogen isotopic alteration in marine sediments. Paleoceanography, 2012, 27, .	3.0	240
76	Persistent non-solar forcing of Holocene storm dynamics in coastal sedimentary archives. Nature Geoscience, 2012, 5, 892-896.	5.4	124
77	Enhanced stratification and seasonality in the Subarctic Pacific upon Northern Hemisphere Glaciationâ€"New evidence from diatom-bound nitrogen isotopes, alkenones and archaeal tetraethers. Earth and Planetary Science Letters, 2012, 351-352, 84-94.	1.8	39
78	Large climate-driven changes of oceanic oxygen concentrations during the last deglaciation. Nature Geoscience, 2012, 5, 151-156.	5.4	182
79	Southern Ocean dustâ€"climate coupling over the past four million years. Nature, 2011, 476, 312-315.	13.7	298
80	A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800kyrs. Quaternary Science Reviews, 2010, 29, 206-212.	1.4	68
81	Glacial/interglacial changes in nutrient supply and stratification in the western subarctic North Pacific since the penultimate glacial maximum. Quaternary Science Reviews, 2010, 29, 2579-2590.	1.4	86
82	Subarctic Pacific evidence for a glacial deepening of the oceanic respired carbon pool. Earth and Planetary Science Letters, 2009, 277, 156-165.	1.8	129
83	Consistent relationship between global climate and surface nitrate utilization in the western subarctic Pacific throughout the last 500 ka. Paleoceanography, 2008, 23, .	3.0	78
84	Evidence from diatom-bound nitrogen isotopes for subarctic Pacific stratification during the last ice age and a link to North Pacific denitrification changes. Paleoceanography, 2007, 22, n/a-n/a.	3.0	119
85	Carbon dioxide release from the North Pacific abyss during the last deglaciation. Nature, 2007, 449, 890-893.	13.7	201
86	Testing the silica leakage hypothesis with sedimentary opal records from the eastern equatorial Pacific over the last 150 kyrs. Geophysical Research Letters, 2006, 33, .	1.5	54
87	North Pacific seasonality and the glaciation of North America 2.7â€‰million years ago. Nature, 2005, 433, 821-825.	13.7	336
88	Glacial/Interglacial Changes in Subarctic North Pacific Stratification. Science, 2005, 308, 1003-1006.	6.0	157
89	Polar ocean stratification in a cold climate. Nature, 2004, 428, 59-63.	13.7	219