

# S L Jaccard

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

7,535  
citations

70961

41  
h-index

54797

84  
g-index

110  
all docs

110  
docs citations

110  
times ranked

7696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	5.4	1,627
2	Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. <i>Science</i> , 2014, 343, 1347-1350.	6.0	350
3	North Pacific seasonality and the glaciation of North America 2.7 million years ago. <i>Nature</i> , 2005, 433, 821-825.	13.7	336
4	Southern Ocean dust-climate coupling over the past four million years. <i>Nature</i> , 2011, 476, 312-315.	13.7	298
5	A review of nitrogen isotopic alteration in marine sediments. <i>Paleoceanography</i> , 2012, 27, .	3.0	240
6	Polar ocean stratification in a cold climate. <i>Nature</i> , 2004, 428, 59-63.	13.7	219
7	Carbon dioxide release from the North Pacific abyss during the last deglaciation. <i>Nature</i> , 2007, 449, 890-893.	13.7	201
8	Two Modes of Change in Southern Ocean Productivity Over the Past Million Years. <i>Science</i> , 2013, 339, 1419-1423.	6.0	194
9	Large climate-driven changes of oceanic oxygen concentrations during the last deglaciation. <i>Nature Geoscience</i> , 2012, 5, 151-156.	5.4	182
10	Covariation of deep Southern Ocean oxygenation and atmospheric CO <sub>2</sub> through the last ice age. <i>Nature</i> , 2016, 530, 207-210.	13.7	173
11	Causes of ice age intensification across the Mid-Pleistocene Transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13114-13119.	3.3	166
12	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018, 11, 474-485.	5.4	166
13	Glacial/Interglacial Changes in Subarctic North Pacific Stratification. <i>Science</i> , 2005, 308, 1003-1006.	6.0	157
14	Subarctic Pacific evidence for a glacial deepening of the oceanic respired carbon pool. <i>Earth and Planetary Science Letters</i> , 2009, 277, 156-165.	1.8	129
15	Persistent non-solar forcing of Holocene storm dynamics in coastal sedimentary archives. <i>Nature Geoscience</i> , 2012, 5, 892-896.	5.4	124
16	Evidence from diatom-bound nitrogen isotopes for subarctic Pacific stratification during the last ice age and a link to North Pacific denitrification changes. <i>Paleoceanography</i> , 2007, 22, n/a-n/a.	3.0	119
17	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	2.4	112
18	Biological and physical controls in the Southern Ocean on past millennial-scale atmospheric CO <sub>2</sub> changes. <i>Nature Communications</i> , 2016, 7, 11539.	5.8	102

#	ARTICLE	IF	CITATIONS
19	Antarctic Zone nutrient conditions during the last two glacial cycles. <i>Paleoceanography</i> , 2015, 30, 845-862.	3.0	88
20	Deep water provenance and dynamics of the (de)glacial Atlantic meridional overturning circulation. <i>Earth and Planetary Science Letters</i> , 2016, 445, 68-78.	1.8	88
21	Glacial/interglacial changes in nutrient supply and stratification in the western subarctic North Pacific since the penultimate glacial maximum. <i>Quaternary Science Reviews</i> , 2010, 29, 2579-2590.	1.4	86
22	The acceleration of oceanic denitrification during deglacial warming. <i>Nature Geoscience</i> , 2013, 6, 579-584.	5.4	84
23	Global pulses of organic carbon burial in deep-sea sediments during glacial maxima. <i>Nature Communications</i> , 2016, 7, 10796.	5.8	84
24	Ocean dynamics, not dust, have controlled equatorial Pacific productivity over the past 500,000 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6119-6124.	3.3	79
25	Consistent relationship between global climate and surface nitrate utilization in the western subarctic Pacific throughout the last 500 ka. <i>Paleoceanography</i> , 2008, 23, .	3.0	78
26	Deglacial pulses of deep-ocean silicate into the subtropical North Atlantic Ocean. <i>Nature</i> , 2013, 495, 495-498.	13.7	75
27	Deep-sea Oxygen Depletion and Ocean Carbon Sequestration During the Last Ice Age. <i>Global Biogeochemical Cycles</i> , 2019, 33, 301-317.	1.9	73
28	A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800kyrs. <i>Quaternary Science Reviews</i> , 2010, 29, 206-212.	1.4	68
29	Calibration of the carbon isotope composition ( $\delta^{13}C$ ) of benthic foraminifera. <i>Paleoceanography</i> , 2017, 32, 512-530.	3.0	63
30	A stagnation event in the deep South Atlantic during the last interglacial period. <i>Science</i> , 2014, 346, 1514-1517.	6.0	62
31	Deglacial weakening of the oceanic soft tissue pump: global constraints from sedimentary nitrogen isotopes and oxygenation proxies. <i>Quaternary Science Reviews</i> , 2015, 109, 38-48.	1.4	59
32	Chromium uptake and adsorption in marine phytoplankton – Implications for the marine chromium cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 41-54.	1.6	58
33	The residence time of Southern Ocean surface waters and the 100,000-year ice age cycle. <i>Science</i> , 2019, 363, 1080-1084.	6.0	58
34	Southern Ocean upwelling, Earth's obliquity, and glacial-interglacial atmospheric CO <sub>2</sub> change. <i>Science</i> , 2020, 370, 1348-1352.	6.0	57
35	<sup>230</sup> Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003820.	1.3	56
36	Active Pacific meridional overturning circulation (PMOC) during the warm Pliocene. <i>Science Advances</i> , 2017, 3, e1700156.	4.7	55

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37	Testing the silica leakage hypothesis with sedimentary opal records from the eastern equatorial Pacific over the last 150 kyrs. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	54
38	Direct ventilation of the North Pacific did not reach the deep ocean during the last deglaciation. <i>Geophysical Research Letters</i> , 2013, 40, 199-203.	1.5	46
39	Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 175, 47-67.	1.6	46
40	Mechanisms of millennial-scale atmospheric CO2 change in numerical model simulations. <i>Quaternary Science Reviews</i> , 2019, 220, 30-74.	1.4	46
41	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006769.	1.9	46
42	Ocean (De)oxygenation Across the Last Deglaciation: Insights for the Future. <i>Oceanography</i> , 2014, 27, 26-35.	0.5	43
43	Constraining the Variability of the Atlantic Meridional Overturning Circulation During the Holocene. <i>Geophysical Research Letters</i> , 2019, 46, 11338-11346.	1.5	43
44	Bioactive Trace Metals and Their Isotopes as Paleoproductivity Proxies: An Assessment Using GEOTRACES Era Data. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006814.	1.9	42
45	Increased nutrient supply to the Southern Ocean during the Holocene and its implications for the pre-industrial atmospheric CO2 rise. <i>Nature Geoscience</i> , 2018, 11, 756-760.	5.4	40
46	Chromium biogeochemistry and stable isotope distribution in the Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 262, 188-206.	1.6	40
47	Deep Pacific storage of respired carbon during the last ice age: Perspectives from bottom water oxygen reconstructions. <i>Quaternary Science Reviews</i> , 2020, 230, 106065.	1.4	40
48	Enhanced stratification and seasonality in the Subarctic Pacific upon Northern Hemisphere Glaciation—New evidence from diatom-bound nitrogen isotopes, alkenones and archaeal tetraethers. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 84-94.	1.8	39
49	Carbon burial in deep-sea sediment and implications for oceanic inventories of carbon and alkalinity over the last glacial cycle. <i>Climate of the Past</i> , 2018, 14, 1819-1850.	1.3	39
50	Low terrestrial carbon storage at the Last Glacial Maximum: constraints from multi-proxy data. <i>Climate of the Past</i> , 2019, 15, 849-879.	1.3	38
51	Biological Control of Chromium Redox and Stable Isotope Composition in the Surface Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006397.	1.9	37
52	Radiocarbon Measurements of Small-Size Foraminiferal Samples with the Mini Carbon Dating System (MICADAS) at the University of Bern: Implications for Paleoclimate Reconstructions. <i>Radiocarbon</i> , 2018, 60, 469-491.	0.8	35
53	A new perspective on boundary scavenging in the North Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 86-97.	1.8	34
54	New insights into cycling of <sup>231</sup> Pa and <sup>230</sup> Th in the Atlantic Ocean. <i>Earth and Planetary Science Letters</i> , 2017, 468, 27-37.	1.8	34

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55	The dynamics of the marine nitrogen cycle across the last deglaciation. <i>Paleoceanography</i> , 2013, 28, 116-129.	3.0	30
56	Glacial-interglacial dust and export production records from the Southern Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115716.	1.8	30
57	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	1.3	30
58	Chromium reduction and associated stable isotope fractionation restricted to anoxic shelf waters in the Peruvian Oxygen Minimum Zone. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 207-224.	1.6	28
59	Trace metal and nutrient dynamics across broad biogeochemical gradients in the Indian and Pacific sectors of the Southern Ocean. <i>Marine Chemistry</i> , 2020, 221, 103773.	0.9	28
60	Glacial heterogeneity in Southern Ocean carbon storage abated by fast South Indian deglacial carbon release. <i>Nature Communications</i> , 2020, 11, 6192.	5.8	27
61	Materials and pathways of the organic carbon cycle through time. <i>Nature Geoscience</i> , 2020, 13, 535-546.	5.4	26
62	Northern-sourced water dominated the Atlantic Ocean during the Last Glacial Maximum. <i>Geology</i> , 2020, 48, 826-829.	2.0	25
63	Contrasting Upper and Deep Ocean Oxygen Response to Protracted Global Warming. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006601.	1.9	24
64	Changes in the geometry and strength of the Atlantic meridional overturning circulation during the last glacial (20â€“50â€“ka). <i>Climate of the Past</i> , 2016, 12, 2061-2075.	1.3	22
65	Quantification of biogenic silica by means of Fourier transform infrared spectroscopy (FTIRS) in marine sediments. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 828-838.	1.0	22
66	Determination of the Mg/Mn ratio in foraminiferal coatings: An approach to correct Mg/Ca temperatures for Mn-rich contaminant phases. <i>Earth and Planetary Science Letters</i> , 2017, 457, 335-347.	1.8	22
67	Enhanced ocean-atmosphere carbon partitioning via the carbonate counter pump during the last deglacial. <i>Nature Communications</i> , 2018, 9, 2396.	5.8	20
68	Southern Ocean link between changes in atmospheric CO <sub>2</sub> levels and northern-hemisphere climate anomalies during the last two glacial periods. <i>Quaternary Science Reviews</i> , 2020, 230, 106067.	1.4	20
69	Export production in the New-Zealand region since the Last Glacial Maximum. <i>Earth and Planetary Science Letters</i> , 2017, 469, 110-122.	1.8	17
70	Change in dust seasonality as the primary driver for orbitalâ€“scale dust storm variability in East Asia. <i>Geophysical Research Letters</i> , 2017, 44, 3796-3805.	1.5	17
71	Millennial-scale ocean dynamics controlled export productivity in the subtropical North Pacific. <i>Geology</i> , 2017, 45, 651-654.	2.0	16
72	A Mg(OH) <sub>2</sub> coprecipitation method for determining chromium speciation and isotopic composition in seawater. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 8-19.	1.0	15

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73	Release from biogenic particles, benthic fluxes, and deep water circulation control Cr and $\delta^{53}\text{Cr}$ distributions in the ocean interior. <i>Earth and Planetary Science Letters</i> , 2021, 574, 117163.	1.8	13
74	Reduced oxygenation at intermediate depths of the southwest Pacific during the last glacial maximum. <i>Earth and Planetary Science Letters</i> , 2018, 491, 48-57.	1.8	12
75	Past Carbonate Preservation Events in the Deep Southeast Atlantic Ocean (Cape Basin) and Their Implications for Atlantic Overturning Dynamics and Marine Carbon Cycling. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 643-663.	1.3	11
76	Mg/Ca-temperature calibration for the benthic foraminifera <i>Melonis barleeanum</i> and <i>Melonis pompilioides</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 365-383.	1.6	10
77	Water mass gradients of the mid-depth Southwest Atlantic during the past 25,000 years. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115963.	1.8	10
78	Early deglacial CO <sub>2</sub> release from the Sub-Antarctic Atlantic and Pacific oceans. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116649.	1.8	10
79	Improving North Atlantic Marine Core Chronologies Using $^{230}\text{Th}$ Normalization. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1057-1073.	1.3	9
80	Assessment of C, N, and Si Isotopes as Tracers of Past Ocean Nutrient and Carbon Cycling. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006775.	1.9	7
81	Opposite dust grain-size patterns in the Pacific and Atlantic sectors of the Southern Ocean during the last 260,000 years. <i>Quaternary Science Reviews</i> , 2021, 263, 106978.	1.4	6
82	Modeling the marine chromium cycle: new constraints on global-scale processes. <i>Biogeosciences</i> , 2021, 18, 5447-5463.	1.3	6
83	Pacific and Atlantic synchronized. <i>Nature Geoscience</i> , 2012, 5, 594-596.	5.4	4
84	The influence of deep water circulation on the distribution of $^{231}\text{Pa}$ and $^{230}\text{Th}$ in the Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116674.	1.8	4
85	Redox capacity of rocks and sediments by high temperature chalcometric titration. <i>Chemical Geology</i> , 2021, 564, 120016.	1.4	4
86	Push from the Pacific. <i>Nature Geoscience</i> , 2018, 11, 299-300.	5.4	3
87	Evolution of Ocean Productivity in the Sub-Tropical West Pacific Ocean Across the Last Deglaciation. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004250.	1.3	3
88	Deglacial patterns of South Pacific overturning inferred from $^{231}\text{Pa}$ and $^{230}\text{Th}$ . <i>Scientific Reports</i> , 2021, 11, 20473.	1.6	3
89	Enhanced Carbonate Counter Pump and upwelling strengths in the Indian sector of the Southern Ocean during MIS 11. <i>Quaternary Science Reviews</i> , 2022, 287, 107556.	1.4	1