

# Francois Lacan

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,851  
citations

136950

32  
h-index

182427

51  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive Trace Metals and Their Isotopes as Paleoproductivity Proxies: An Assessment Using GEOTRACES Era Data. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006814.	4.9	42
2	The Importance of Water Mass Transport and Dissolved-Particle Interactions on the Aluminum Cycle in the Subtropical North Atlantic. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006569.	4.9	3
3	Drake Passage gateway opening and Antarctic Circumpolar Current onset 31 Ma ago: The message of foraminifera and reconsideration of the Neodymium isotope record. <i>Chemical Geology</i> , 2021, 570, 120171.	3.3	8
4	Constraining the Solomon Sea as a source of Al and Mn to the Equatorial Undercurrent. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 174, 103559.	1.4	0
5	Interferences and Matrix Effects on Iron Isotopic Composition Measurements by $^{57}\text{Fe}$ - $^{58}\text{Fe}$ Double-Spike Multi-Collector Inductively Coupled Plasma Mass Spectrometry; the Importance of Calcium and Aluminum Interferences. <i>Frontiers in Environmental Chemistry</i> , 2021, 2, .	1.6	2
6	Water mass analysis along 22°N in the subtropical North Atlantic for the JC150 cruise (GEOTRACES). <i>Journal of Geophysical Research</i> , 2020, 125, e2019JC015000.	1.4	7
7	Dissolved iron in the North Atlantic Ocean and Labrador Sea along the GEOVIDE section (GEOTRACES). <i>Journal of Geophysical Research</i> , 2020, 125, e2019JC015000.	3.3	24
8	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
9	A New Interlaboratory Characterisation of Silicon, Rare Earth Elements and Twenty-Two Other Trace Element Concentrations in the Natural River Water Certified Reference Material (SRM 660) (NIST SRM 660). <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 475-496.	3.1	56
10	Thorium isotopes in the Southeast Atlantic Ocean: Tracking scavenging during water mass mixing along neutral density surfaces. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 149, 103042.	1.4	6
11	Insight into the measurement of dissolved $^{227}\text{Ac}$ in seawater using radium delayed coincidence counter. <i>Marine Chemistry</i> , 2019, 212, 64-73.	2.3	10
12	Sources of dissolved iron to oxygen minimum zone waters on the Senegalese continental margin in the tropical North Atlantic Ocean: Insights from iron isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 60-78.	3.9	27
13	Differentiating Lithogenic Supplies, Water Mass Transport, and Biological Processes On and Off the Kerguelen Plateau Using Rare Earth Element Concentrations and Neodymium Isotopic Compositions. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	25
14	Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise. <i>Biogeosciences</i> , 2018, 15, 7097-7109.	3.3	10
15	Dissolved Pb and Pb isotopes in the North Atlantic from the GEOVIDE transect (GEOTRACES GA-01) and their decadal evolution. <i>Biogeosciences</i> , 2018, 15, 4995-5014.	3.3	19
16	Aluminium in the North Atlantic Ocean and the Labrador Sea (GEOTRACES GA01 section): roles of continental inputs and biogenic particle removal. <i>Biogeosciences</i> , 2018, 15, 5271-5286.	3.3	19
17	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
18	The $^{226}\text{Ra}$ - $^{137}\text{Cs}$ relationship in the North Atlantic during GEOTRACES-GA01. <i>Biogeosciences</i> , 2018, 15, 3027-3048.	3.3	25

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19	Iron isotopes reveal distinct dissolved iron sources and pathways in the intermediate versus deep Southern Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 858-863.	7.1	57
20	The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data. Chemical Geology, 2017, 457, 131-148.	3.3	78
21	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. Elementa, 2017, 5, .	3.2	17
22	Intercomparison of dissolved iron isotope profiles from reoccupation of three GEOTRACES stations in the Atlantic Ocean. Marine Chemistry, 2016, 183, 50-61.	2.3	25
23	Rare earth elements and Nd isotopes tracing water mass mixing and particle-seawater interactions in the SE Atlantic. Geochimica Et Cosmochimica Acta, 2014, 125, 351-372.	3.9	94
24	Iron sources and dissolved-particle interactions in the seawater of the Western Equatorial Pacific, iron isotope perspectives. Global Biogeochemical Cycles, 2014, 28, 1044-1065.	4.9	66
25	Rare earth element analysis in natural waters by multiple isotope dilution "sector field ICP-MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 573.	3.0	58
26	A Compilation of Silicon, Rare Earth Element and Twenty-One other Trace Element Concentrations in the Natural River Water Reference Material <sc>SLRS</sc> ( <sc>NRC</sc> <sc>CNRC</sc>). Geostandards and Geoanalytical Research, 2013, 37, 449-467.	3.1	92
27	Rare earth element concentrations and Nd isotopes in the Southeast Pacific Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 328-341.	2.5	68
28	From the subtropics to the central equatorial Pacific Ocean: Neodymium isotopic composition and rare earth element concentration variations. Journal of Geophysical Research: Oceans, 2013, 118, 592-618.	2.6	111
29	GEOTRACES IC1 (BATS) contamination-prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. Limnology and Oceanography: Methods, 2012, 10, 653-665.	2.0	98
30	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 1: reproducibility of results for the international intercomparison. Limnology and Oceanography: Methods, 2012, 10, 234-251.	2.0	119
31	Neodymium isotopic composition of the oceans: A compilation of seawater data. Chemical Geology, 2012, 300-301, 177-184.	3.3	108
32	Ocean margins: The missing term in oceanic element budgets?. Eos, 2011, 92, 217-218.	0.1	80
33	Iron isotopes in the seawater of the equatorial Pacific Ocean: New constraints for the oceanic iron cycle. Earth and Planetary Science Letters, 2011, 306, 1-10.	4.4	139
34	Single Column Sequential Extraction of Ra, Nd, Th, Pa and U from a Natural Sample. Geostandards and Geoanalytical Research, 2011, 35, 449-459.	3.1	12
35	The biogeochemical cycle of dissolved cobalt in the Atlantic and the Southern Ocean south off the coast of South Africa. Marine Chemistry, 2011, 126, 193-206.	2.3	62
36	Modeling the Nd isotopic composition in the North Atlantic basin using an eddy-permitting model. Ocean Science, 2010, 6, 789-797.	3.4	11

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37	High-Precision Determination of the Isotopic Composition of Dissolved Iron in Iron Depleted Seawater by Double Spike Multicollector-ICPMS. <i>Analytical Chemistry</i> , 2010, 82, 7103-7111.	6.5	30
38	Reconstructing the Nd oceanic cycle using a coupled dynamical " biogeochemical model. <i>Biogeosciences</i> , 2009, 6, 2829-2846.	3.3	185
39	Influence of particle size and type on <sup>231</sup> Pa and <sup>230</sup> Th simulation with a global coupled biogeochemical-ocean general circulation model: A first approach. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	40
40	Dissolved rare earth elements tracing lithogenic inputs over the Kerguelen Plateau (Southern Ocean). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 638-652.	1.4	81
41	Measurement of the isotopic composition of dissolved iron in the open ocean. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	70
42	A modeling sensitivity study of the influence of the Atlantic meridional overturning circulation on neodymium isotopic composition at the Last Glacial Maximum. <i>Climate of the Past</i> , 2008, 4, 191-203.	3.4	30
43	Isotopic Nd compositions and concentrations of the lithogenic inputs into the ocean: A compilation, with an emphasis on the margins. <i>Chemical Geology</i> , 2007, 239, 156-164.	3.3	208
44	Modeling the neodymium isotopic composition with a global ocean circulation model. <i>Chemical Geology</i> , 2007, 239, 165-177.	3.3	113
45	Cadmium isotopic composition in the ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5104-5118.	3.9	146
46	Neodymium isotopes as a new tool for quantifying exchange fluxes at the continent-ocean interface. <i>Earth and Planetary Science Letters</i> , 2005, 232, 245-257.	4.4	359
47	Acquisition of the neodymium isotopic composition of the North Atlantic Deep Water. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	122
48	Neodymium isotopic composition and rare earth element concentrations in the deep and intermediate Nordic Seas: Constraints on the Iceland Scotland Overflow Water signature. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	93
49	Subpolar Mode Water formation traced by neodymium isotopic composition. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	64
50	Denmark Strait water circulation traced by heterogeneity in neodymium isotopic compositions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 71-82.	1.4	71
51	Tracing Papua New Guinea imprint on the central Equatorial Pacific Ocean using neodymium isotopic compositions and Rare Earth Element patterns. <i>Earth and Planetary Science Letters</i> , 2001, 186, 497-512.	4.4	204