Francois Lacan

List of Publications by Year in descending order

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	Neodymium isotopes as a new tool for quantifying exchange fluxes at the continentâ€“ocean interface. Earth and Planetary Science Letters, 2005, 232, 245-257.	4.4	359
2	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
3	Isotopic Nd compositions and concentrations of the lithogenic inputs into the ocean: A compilation, with an emphasis on the margins. Chemical Geology, 2007, 239, 156-164.	3.3	208
4	Tracing Papua New Guinea imprint on the central Equatorial Pacific Ocean using neodymium isotopic compositions and Rare Earth Element patterns. Earth and Planetary Science Letters, 2001, 186, 497-512.	4.4	204
5	Reconstructing the Nd oceanic cycle using a coupled dynamical â€“ biogeochemical model. Biogeosciences, 2009, 6, 2829-2846.	3.3	185
6	Cadmium isotopic composition in the ocean. Geochimica Et Cosmochimica Acta, 2006, 70, 5104-5118.	3.9	146
7	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
8	Acquisition of the neodymium isotopic composition of the North Atlantic Deep Water. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	122
9	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
10	Modeling the neodymium isotopic composition with a global ocean circulation model. Chemical Geology, 2007, 239, 165-177.	3.3	113
11	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
12	Neodymium isotopic composition of the oceans: A compilation of seawater data. Chemical Geology, 2012, 300-301, 177-184.	3.3	108
13	GEOTRACES IC1 (BATS) contaminationâ€prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. Limnology and Oceanography: Methods, 2012, 10, 653-665.	2.0	98
14	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
15	Neodymium isotopic composition and rare earth element concentrations in the deep and intermediate Nordic Seas: Constraints on the Iceland Scotland Overflow Water signature. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	93
16	A Compilation of Silicon, Rare Earth Element and Twentyâ€One other Trace Element Concentrations in the Natural River Water Reference Material <scp>SLRS</scp>â€5 (<scp>NRC</scp>â€<scp>CNRC</scp>). Geostandards and Geoanalytical Research, 2013, 37, 449-467.	3.1	92
17	Dissolved rare earth elements tracing lithogenic inputs over the Kerguelen Plateau (Southern Ocean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 638-652.	1.4	81
18	Ocean margins: The missing term in oceanic element budgets?. Eos, 2011, 92, 217-218.	0.1	80

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19	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
20	Denmark Strait water circulation traced by heterogeneity in neodymium isotopic compositions. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 71-82.	1.4	71
21	Measurement of the isotopic composition of dissolved iron in the open ocean. Geophysical Research Letters, 2008, 35, .	4.0	70
22	Rare earth element concentrations and Nd isotopes in the Southeast Pacific Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 328-341.	2.5	68
23	Iron sources and dissolvedâ€particulate interactions in the seawater of the Western Equatorial Pacific, iron isotope perspectives. Global Biogeochemical Cycles, 2014, 28, 1044-1065.	4.9	66
24	Subpolar Mode Water formation traced by neodymium isotopic composition. Geophysical Research Letters, 2004, 31, .	4.0	64
25	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
26	Rare earth element analysis in natural waters by multiple isotope dilution â€“ sector field ICP-MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 573.	3.0	58
27	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
28	A New Interlaboratory Characterisation of Silicon, Rare Earth Elements and Twentyâ€Two Other Trace Element Concentrations in the Natural River Water Certified Reference Material <scp>SLRS</scp>â€6 (<scp>NRC</scp>â€<scp>CNRC</scp>). Geostandards and Geoanalytical Research, 2019, 43, 475-496.	3.1	56
29	Bioactive Trace Metals and Their Isotopes as Paleoproductivity Proxies: An Assessment Using GEOTRACESâ€Era Data. Global Biogeochemical Cycles, 2021, 35, e2020GB006814.	4.9	42
30	Influence of particle size and type on ²³¹Pa and ²³⁰Th simulation with a global coupled biogeochemicalâ€ocean general circulation model: A first approach. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	40
31	Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, .	2.5	39
32	A modeling sensitivity study of the influence of the Atlantic meridional overturning circulation on neodymium isotopic composition at the Last Glacial Maximum. Climate of the Past, 2008, 4, 191-203.	3.4	30
33	High-Precision Determination of the Isotopic Composition of Dissolved Iron in Iron Depleted Seawater by Double Spike Multicollector-ICPMS. Analytical Chemistry, 2010, 82, 7103-7111.	6.5	30
34	Sources of dissolved iron to oxygen minimum zone waters on the Senegalese continental margin in the tropical North Atlantic Ocean: Insights from iron isotopes. Geochimica Et Cosmochimica Acta, 2018, 236, 60-78.	3.9	27
35	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
36	Differentiating Lithogenic Supplies, Water Mass Transport, and Biological Processes On and Off the Kerguelen Plateau Using Rare Earth Element Concentrations and Neodymium Isotopic Compositions. Frontiers in Marine Science, 2018, 5, .	2.5	25

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37	The ²²⁶Raâ€“Ba relationship in the North Atlantic during GEOTRACES-GA01. Biogeosciences, 2018, 15, 3027-3048.	3.3	25
38	Dissolved iron in the North Atlantic Ocean and Labrador Sea along the GEOVIDE section (GEOTRACES) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	24
39	Dissolved Pb and Pb isotopes in the North Atlantic from the GEOVIDE transect (GEOTRACES GA-01) and their decadal evolution. Biogeosciences, 2018, 15, 4995-5014.	3.3	19
40	Aluminium in the North Atlantic Ocean and the Labrador Sea (GEOTRACES GA01 section): roles of continental inputs and biogenic particle removal. Biogeosciences, 2018, 15, 5271-5286.	3.3	19
41	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. Elementa, 2017, 5, .	3.2	17
42	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
43	Modeling the Nd isotopic composition in the North Atlantic basin using an eddy-permitting model. Ocean Science, 2010, 6, 789-797.	3.4	11
44	Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise. Biogeosciences, 2018, 15, 7097-7109.	3.3	10
45	Insight into the measurement of dissolved 227Ac in seawater using radium delayed coincidence counter. Marine Chemistry, 2019, 212, 64-73.	2.3	10
46	Drake Passage gateway opening and Antarctic Circumpolar Current onset 31ÂMa ago: The message of foraminifera and reconsideration of the Neodymium isotope record. Chemical Geology, 2021, 570, 120171.	3.3	8
47	Water mass analysis along 22 Â°N in the subtropical North Atlantic for the JC150 cruise (GEOTRACES,) Tj ETQq1 1 0.784314 rgBT /Ov	1.4	7
48	Thorium isotopes in the Southeast Atlantic Ocean: Tracking scavenging during water mass mixing along neutral density surfaces. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 149, 103042.	1.4	6
49	The Importance of Water Mass Transport and Dissolvedâ€Particle Interactions on the Aluminum Cycle in the Subtropical North Atlantic. Global Biogeochemical Cycles, 2021, 35, e2020GB006569.	4.9	3
50	Interferences and Matrix Effects on Iron Isotopic Composition Measurements by 57Fe-58Fe Double-Spike Multi-Collector Inductively Coupled Plasma Mass Spectrometry; the Importance of Calcium and Aluminum Interferences. Frontiers in Environmental Chemistry, 2021, 2, .	1.6	2
51	Constraining the Solomon Sea as a source of Al and Mn to the Equatorial Undercurrent. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 174, 103559.	1.4	0