

# Anne Lorrain

## List of Publications by Year in descending order

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74  
papers

3,926  
citations

101496

36  
h-index

123376

61  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decarbonation and preservation method for the analysis of organic C and N contents and stable isotope ratios of low-carbonated suspended particulate material. <i>Analytica Chimica Acta</i> , 2003, 491, 125-133.	2.6	233
2	Differential $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ signatures among scallop tissues: implications for ecology and physiology. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 275, 47-61.	0.7	208
3	Strong biological controls on Sr/Ca ratios in aragonitic marine bivalve shells. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	184
4	$\delta^{13}\text{C}$ variation in scallop shells: Increasing metabolic carbon contribution with body size?. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3509-3519.	1.6	175
5	Barium uptake into the shells of the common mussel ( <i>Mytilus edulis</i> ) and the potential for estuarine paleo-chemistry reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 395-407.	1.6	163
6	Stable carbon isotopic composition of <i>Mytilus edulis</i> shells: relation to metabolism, salinity, $\delta^{13}\text{C}_{\text{DIC}}$ and phytoplankton. <i>Organic Geochemistry</i> , 2006, 37, 1371-1382.	0.9	161
7	The trophodynamics of marine top predators: Current knowledge, recent advances and challenges. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 170-187.	0.6	132
8	A large metabolic carbon contribution to the $\delta^{13}\text{C}$ record in marine aragonitic bivalve shells. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2936-2946.	1.6	131
9	Strong kinetic effects on Sr/Ca ratios in the calcitic bivalve <i>Pecten maximus</i> . <i>Geology</i> , 2005, 33, 965.	2.0	126
10	Nitrogen and carbon isotope values of individual amino acids: a tool to study foraging ecology of penguins in the Southern Ocean. <i>Marine Ecology - Progress Series</i> , 2009, 391, 293-306.	0.9	126
11	Shell of the Great Scallop <i>Pecten maximus</i> as a high-frequency archive of paleoenvironmental changes. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	124
12	Nitrogen isotopic baselines and implications for estimating foraging habitat and trophic position of yellowfin tuna in the Indian and Pacific Oceans. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 188-198.	0.6	118
13	Isotopic evidence of distinct feeding ecologies and movement patterns in two migratory predators (yellowfin tuna and swordfish) of the western Indian Ocean. <i>Marine Biology</i> , 2007, 153, 141-152.	0.7	110
14	An evaluation of Mg/Ca, Sr/Ca, and Ba/Ca ratios as environmental proxies in aragonite bivalve shells. <i>Chemical Geology</i> , 2015, 396, 42-50.	1.4	109
15	Diversifying the use of tuna to improve food security and public health in Pacific Island countries and territories. <i>Marine Policy</i> , 2015, 51, 584-591.	1.5	97
16	A global perspective on the trophic geography of sharks. <i>Nature Ecology and Evolution</i> , 2018, 2, 299-305.	3.4	95
17	Direct evidence of a biologically active coastal silicate pump: Ecological implications. <i>Limnology and Oceanography</i> , 2002, 47, 1849-1854.	1.6	84
18	Synchronous barium peaks in high-resolution profiles of calcite and aragonite marine bivalve shells. <i>Geo-Marine Letters</i> , 2008, 28, 351-358.	0.5	82

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19	Inter- and intra-annual variations of Pb/Ca ratios in clam shells ( <i>Mercenaria mercenaria</i> ): A record of anthropogenic lead pollution?. <i>Marine Pollution Bulletin</i> , 2005, 50, 1530-1540.	2.3	65
20	Growth anomalies in <i>Pecten maximus</i> from coastal waters (Bay of Brest, France): relationship with diatom blooms. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2000, 80, 667-673.	0.4	62
21	Experimental shift of diet and DIC stable carbon isotopes: Influence on shell $\delta^{13}C$ values in the Manila clam <i>Ruditapes philippinarum</i> . <i>Chemical Geology</i> , 2010, 272, 75-82.	1.4	60
22	The impact of metabolism on stable isotope dynamics: a theoretical framework. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3455-3468.	1.8	58
23	Experimental shift in diet $\delta^{13}C$ : A potential tool for ecophysiological studies in marine bivalves. <i>Organic Geochemistry</i> , 2006, 37, 1359-1370.	0.9	57
24	Sequential Isotopic Signature Along <i>Gladius</i> Highlights Contrasted Individual Foraging Strategies of Jumbo Squid ( <i>Dosidicus gigas</i> ). <i>PLoS ONE</i> , 2011, 6, e22194.	1.1	54
25	Tracking habitat and resource use for the jumbo squid <i>Dosidicus gigas</i> : a stable isotope analysis in the Northern Humboldt Current System. <i>Marine Biology</i> , 2012, 159, 2105-2116.	0.7	52
26	Seabirds supply nitrogen to reef-building corals on remote Pacific islets. <i>Scientific Reports</i> , 2017, 7, 3721.	1.6	50
27	A global meta-analysis of marine predator nitrogen stable isotopes: Relationships between trophic structure and environmental conditions. <i>Global Ecology and Biogeography</i> , 2018, 27, 1043-1055.	2.7	50
28	Trends in tuna carbon isotopes suggest global changes in pelagic phytoplankton communities. <i>Global Change Biology</i> , 2020, 26, 458-470.	4.2	47
29	Stable isotope variations in benthic filter feeders across a large depth gradient on the continental shelf. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 96, 228-235.	0.9	45
30	A coupled stable isotope-size spectrum approach to understanding pelagic food-web dynamics: A case study from the southwest sub-tropical Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 208-224.	0.6	44
31	Trophic position increases with thermocline depth in yellowfin and bigeye tuna across the Western and Central Pacific Ocean. <i>Progress in Oceanography</i> , 2017, 154, 49-63.	1.5	43
32	Diazotrophs: a non-negligible source of nitrogen for the tropical coral <i>Stylophora pistillata</i> . <i>Journal of Experimental Biology</i> , 2016, 219, 2608-12.	0.8	42
33	Responses of Two Scleractinian Corals to Cobalt Pollution and Ocean Acidification. <i>PLoS ONE</i> , 2015, 10, e0122898.	1.1	41
34	Trophic structure in the northern Humboldt Current system: new perspectives from stable isotope analysis. <i>Marine Biology</i> , 2017, 164, 1.	0.7	41
35	High-resolution nitrogen stable isotope sclerochronology of bivalve shell carbonate-bound organics. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 55-66.	1.6	38
36	A Model of Mercury Distribution in Tuna from the Western and Central Pacific Ocean: Influence of Physiology, Ecology and Environmental Factors. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1422-1431.	4.6	37

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37	High frequency Barium profiles in shells of the Great Scallop &lt;i>Pecten maximus</i>: a methodical long-term and multi-site survey in Western Europe. <i>Biogeosciences</i> , 2009, 6, 157-170.	1.3	33
38	Whatâ€™s Hiding Behind Ontogenetic $\delta^{13}C$ Variations in Mollusk Shells? New Insights from the Great Scallop ( <i>Pecten maximus</i> ). <i>Estuaries and Coasts</i> , 2011, 34, 211-220.	1.0	31
39	Seasonal oceanography from physics to micronekton in the south-west Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 125-144.	0.6	29
40	Bleaching forces coralâ€™s heterotrophy on diazotrophs and <i>Synechococcus</i>. <i>ISME Journal</i> , 2019, 13, 2882-2886.	4.4	28
41	Nickel and ocean warming affect scleractinian coral growth. <i>Marine Pollution Bulletin</i> , 2017, 120, 250-258.	2.3	27
42	Spatial Variability of Stable Isotope Ratios in Oysters ( <i>Crassostrea gigas</i> ) and Primary Producers Along an Estuarine Gradient (Bay of Brest, France). <i>Estuaries and Coasts</i> , 2013, 36, 808-819.	1.0	26
43	<i>Senilia senilis</i> (Linnaeus, 1758), a biogenic archive of environmental conditions on the Banc d'Arguin (Mauritania). <i>Journal of Sea Research</i> , 2013, 76, 61-72.	0.6	25
44	Setting the stage for a global-scale trophic analysis of marine top predators: a multi-workshop review. <i>Reviews in Fish Biology and Fisheries</i> , 2015, 25, 261-272.	2.4	25
45	Mercury isotopes as tracers of ecology and metabolism in two sympatric shark species. <i>Environmental Pollution</i> , 2020, 265, 114931.	3.7	25
46	Evidence that Pacific tuna mercury levels are driven by marine methylmercury production and anthropogenic inputs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	25
47	High <i>p</i> CO <sub>2</sub> promotes coral primary production. <i>Biology Letters</i> , 2019, 15, 20180777.	1.0	23
48	Spatial changes in fatty acids signatures of the great scallop <i>Pecten maximus</i> across the Bay of Biscay continental shelf. <i>Continental Shelf Research</i> , 2015, 109, 1-9.	0.9	22
49	The Twilight Zone as a Major Foraging Habitat and Mercury Source for the Great White Shark. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15872-15882.	4.6	20
50	Isotopic niches of the blue shark <i>Prionace glauca</i> and the silky shark <i>Carcharhinus falciformis</i> in the southwestern Indian Ocean. <i>Endangered Species Research</i> , 2012, 17, 83-92.	1.2	20
51	Global patterns and inferences of tuna movements and trophodynamics from stable isotope analysis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 175, 104775.	0.6	19
52	Stable mercury concentrations of tropical tuna in the south western Pacific ocean: An 18-year monitoring study. <i>Chemosphere</i> , 2021, 263, 128024.	4.2	19
53	An environmentally induced tidal periodicity of microgrowth increment formation in subtidal populations of the clam <i>Ruditapes philippinarum</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 397, 58-64.	0.7	18
54	Modelling N&lt;sub>2</sub> fixation related to &lt;i>Trichodesmium</i> sp.: driving processes and impacts on primary production in the tropical Pacific Ocean. <i>Biogeosciences</i> , 2018, 15, 4333-4352.	1.3	16

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55	Trophic resources and mercury exposure of two silvertip shark populations in the Northeast Pacific Ocean. <i>Chemosphere</i> , 2020, 253, 126645.	4.2	12
56	Flying to the moon: Lunar cycle influences trip duration and nocturnal foraging behavior of the wedge-tailed shearwater <i>Ardenna pacifica</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2020, 525, 151322.	0.7	11
57	Seabirds: Sentinels beyond the oceans. <i>Science</i> , 2019, 366, 813-813.	6.0	10
58	Behavioral and trophic segregations help the Tahiti petrel to cope with the abundance of wedge-tailed shearwater when foraging in oligotrophic tropical waters. <i>Scientific Reports</i> , 2020, 10, 15129.	1.6	10
59	Defining the stock structures of key commercial tunas in the Pacific Ocean II: Sampling considerations and future directions. <i>Fisheries Research</i> , 2020, 230, 105524.	0.9	10
60	Bivalve $\delta^{15}\text{N}$ isoscapes provide a baseline for urban nitrogen footprint at the edge of a World Heritage coral reef. <i>Marine Pollution Bulletin</i> , 2020, 152, 110870.	2.3	9
61	Description of a global marine particulate organic carbon-13 isotope data set. <i>Earth System Science Data</i> , 2021, 13, 4861-4880.	3.7	9
62	Stable isotope ratios in benthic-demersal biota along a depth gradient in the Bay of Biscay: A multitrophic study. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 179, 201-206.	0.9	8
63	Assimilation of shrimp farm sediment by <i>Holothuria scabra</i> : a coupled fatty acid and stable isotope approach. <i>Aquatic Living Resources</i> , 2020, 33, 3.	0.5	8
64	ENSO Climate Forcing of the Marine Mercury Cycle in the Peruvian Upwelling Zone Does Not Affect Methylmercury Levels of Marine Avian Top Predators. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15754-15765.	4.6	8
65	Mercury concentrations, biomagnification and isotopic discrimination factors in two seabird species from the Humboldt Current ecosystem. <i>Marine Pollution Bulletin</i> , 2022, 177, 113481.	2.3	8
66	Comment on Trophic strategy and bleaching resistance in reef-building corals. <i>Science Advances</i> , 2021, 7, .	4.7	7
67	Mercury concentrations in tuna blood and muscle mirror seawater methylmercury in the Western and Central Pacific Ocean. <i>Marine Pollution Bulletin</i> , 2022, 180, 113801.	2.3	7
68	Circadian behaviour of <i>Tectus (Trochus) niloticus</i> in the southwest Pacific inferred from accelerometry. <i>Movement Ecology</i> , 2015, 3, 26.	1.3	6
69	Variability in diel and seasonal in situ metabolism of the tropical gastropod <i>Tectus niloticus</i> . <i>Aquatic Biology</i> , 2015, 23, 167-182.	0.5	6
70	Foraging plasticity diversifies mercury exposure sources and bioaccumulation patterns in the world's largest predatory fish. <i>Journal of Hazardous Materials</i> , 2022, 425, 127956.	6.5	6
71	Seabird-Derived Nutrients Supply Modulates the Trophic Strategies of Mixotrophic Corals. <i>Frontiers in Marine Science</i> , 2022, 8, .	1.2	5
72	Lipid-free tuna muscle samples are suitable for total mercury analysis. <i>Marine Environmental Research</i> , 2021, 169, 105385.	1.1	3

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73	Mercury stable isotopes suggest reduced foraging depth in oxygen minimum zones for blue sharks. <i>Marine Pollution Bulletin</i> , 2022, 181, 113892.	2.3	3
74	Global data set for nitrogen and carbon stable isotopes of tunas. <i>Ecology</i> , 2021, 102, e03265.	1.5	2