Anne Lorrain

List of Publications by Year
in descending order

74 papers	3,926 citations	101543 36 h-index	123424 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. Analytica Chimica Acta, 2003, 491, 125-133.	5.4	233
2	Differential Î´13C and Î´15N signatures among scallop tissues: implications for ecology and physiology. Journal of Experimental Marine Biology and Ecology, 2002, 275, 47-61.	1.5	208
3	Strong biological controls on Sr/Ca ratios in aragonitic marine bivalve shells. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	184
4	Î´13C variation in scallop shells: Increasing metabolic carbon contribution with body size?. Geochimica Et Cosmochimica Acta, 2004, 68, 3509-3519.	3.9	175
5	Barium uptake into the shells of the common mussel (Mytilus edulis) and the potential for estuarine paleo-chemistry reconstruction. Geochimica Et Cosmochimica Acta, 2006, 70, 395-407.	3.9	163
6	Stable carbon isotopic composition of Mytilus edulis shells: relation to metabolism, salinity, Î´13CDIC and phytoplankton. Organic Geochemistry, 2006, 37, 1371-1382.	1.8	161
7	The trophodynamics of marine top predators: Current knowledge, recent advances and challenges. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 113, 170-187.	1.4	132
8	A large metabolic carbon contribution to the Î´13C record in marine aragonitic bivalve shells. Geochimica Et Cosmochimica Acta, 2007, 71, 2936-2946.	3.9	131
9	Strong kinetic effects on Sr/Ca ratios in the calcitic bivalve Pecten maximus. Geology, 2005, 33, 965.	4.4	126
10	Nitrogen and carbon isotope values of individual amino acids: a tool to study foraging ecology of penguins in the Southern Ocean. Marine Ecology - Progress Series, 2009, 391, 293-306.	1.9	126
11	Shell of the Great ScallopPecten maximusas a high-frequency archive of paleoenvironmental changes. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	124
12	Nitrogen isotopic baselines and implications for estimating foraging habitat and trophic position of yellowfin tuna in the Indian and Pacific Oceans. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 113, 188-198.	1.4	118
13	Isotopic evidence of distinct feeding ecologies and movement patterns in two migratory predators (yellowfin tuna and swordfish) of the western Indian Ocean. Marine Biology, 2007, 153, 141-152.	1.5	110
14	An evaluation of Mg/Ca, Sr/Ca, and Ba/Ca ratios as environmental proxies in aragonite bivalve shells. Chemical Geology, 2015, 396, 42-50.	3.3	109
15	Diversifying the use of tuna to improve food security and public health in Pacific Island countries and territories. Marine Policy, 2015, 51, 584-591.	3.2	97
16	A global perspective on the trophic geography of sharks. Nature Ecology and Evolution, 2018, 2, 299-305.	7.8	95
17	Direct evidence of a biologically active coastal silicate pump: Ecological implications. Limnology and Oceanography, 2002, 47, 1849-1854.	3.1	84
18	Synchronous barium peaks in high-resolution profiles of calcite and aragonite marine bivalve shells. Geo-Marine Letters, 2008, 28, 351-358.	1.1	82

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19	Inter- and intra-annual variations of Pb/Ca ratios in clam shells (Mercenaria mercenaria): A record of anthropogenic lead pollution?. Marine Pollution Bulletin, 2005, 50, 1530-1540.	5.0	65
20	Growth anomalies in Pecten maximus from coastal waters (Bay of Brest, France): relationship with diatom blooms. Journal of the Marine Biological Association of the United Kingdom, 2000, 80, 667-673.	0.8	62
21	Experimental shift of diet and DIC stable carbon isotopes: Influence on shell Î´13C values in the Manila clam Ruditapes philippinarum. Chemical Geology, 2010, 272, 75-82.	3.3	60
22	The impact of metabolism on stable isotope dynamics: a theoretical framework. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3455-3468.	4.0	58
23	Experimental shift in diet Î´13C: A potential tool for ecophysiological studies in marine bivalves. Organic Geochemistry, 2006, 37, 1359-1370.	1.8	57
24	Sequential Isotopic Signature Along Gladius Highlights Contrasted Individual Foraging Strategies of Jumbo Squid (Dosidicus gigas). PLoS ONE, 2011, 6, e22194.	2.5	54
25	Tracking habitat and resource use for the jumbo squid Dosidicus gigas: a stable isotope analysis in the Northern Humboldt Current System. Marine Biology, 2012, 159, 2105-2116.	1.5	52
26	Seabirds supply nitrogen to reef-building corals on remote Pacific islets. Scientific Reports, 2017, 7, 3721.	3.3	50
27	A global metaâ€analysis of marine predator nitrogen stable isotopes: Relationships between trophic structure and environmental conditions. Global Ecology and Biogeography, 2018, 27, 1043-1055.	5.8	50
28	Trends in tuna carbon isotopes suggest global changes in pelagic phytoplankton communities. Global Change Biology, 2020, 26, 458-470.	9.5	47
29	Stable isotope variations in benthic filter feeders across a large depth gradient on the continental shelf. Estuarine, Coastal and Shelf Science, 2012, 96, 228-235.	2.1	45
30	A coupled stable isotope-size spectrum approach to understanding pelagic food-web dynamics: A case study from the southwest sub-tropical Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 113, 208-224.	1.4	44
31	Trophic position increases with thermocline depth in yellowfin and bigeye tuna across the Western and Central Pacific Ocean. Progress in Oceanography, 2017, 154, 49-63.	3.2	43
32	Diazotrophs: a non-negligible source of nitrogen for the tropical coral Stylophora pistillata. Journal of Experimental Biology, 2016, 219, 2608-12.	1.7	42
33	Responses of Two Scleractinian Corals to Cobalt Pollution and Ocean Acidification. PLoS ONE, 2015, 10, e0122898.	2.5	41
34	Trophic structure in the northern Humboldt Current system: new perspectives from stable isotope analysis. Marine Biology, 2017, 164, 1.	1.5	41
35	High-resolution nitrogen stable isotope sclerochronology of bivalve shell carbonate-bound organics. Geochimica Et Cosmochimica Acta, 2017, 200, 55-66.	3.9	38
36	A Model of Mercury Distribution in Tuna from the Western and Central Pacific Ocean: Influence of Physiology, Ecology and Environmental Factors. Environmental Science & Technology, 2019, 53, 1422-1431.	10.0	37

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37	High frequency Barium profiles in shells of the Great Scallop <i>Pecten maximus</i>: a methodical long-term and multi-site survey in Western Europe. Biogeosciences, 2009, 6, 157-170.	3.3	33
38	Whatâ€™s Hiding Behind Ontogenetic Î´13C Variations in Mollusk Shells? New Insights from the Great Scallop (Pecten maximus). Estuaries and Coasts, 2011, 34, 211-220.	2.2	31
39	Seasonal oceanography from physics to micronekton in the south-west Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 113, 125-144.	1.4	29
40	Bleaching forces coralâ€™s heterotrophy on diazotrophs and Synechococcus. ISME Journal, 2019, 13, 2882-2886.	9.8	28
41	Nickel and ocean warming affect scleractinian coral growth. Marine Pollution Bulletin, 2017, 120, 250-258.	5.0	27
42	Spatial Variability of Stable Isotope Ratios in Oysters (Crassostrea gigas) and Primary Producers Along an Estuarine Gradient (Bay of Brest, France). Estuaries and Coasts, 2013, 36, 808-819.	2.2	26
43	Senilia senilis (Linnaeus, 1758), a biogenic archive of environmental conditions on the Banc d'Arguin (Mauritania). Journal of Sea Research, 2013, 76, 61-72.	1.6	25
44	Setting the stage for a global-scale trophic analysis of marine top predators: a multi-workshop review. Reviews in Fish Biology and Fisheries, 2015, 25, 261-272.	4.9	25
45	Mercury isotopes as tracers of ecology and metabolism in two sympatric shark species. Environmental Pollution, 2020, 265, 114931.	7.5	25
46	Evidence that Pacific tuna mercury levels are driven by marine methylmercury production and anthropogenic inputs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	25
47	High p CO ₂ promotes coral primary production. Biology Letters, 2019, 15, 20180777.	2.3	23
48	Spatial changes in fatty acids signatures of the great scallop Pecten maximus across the Bay of Biscay continental shelf. Continental Shelf Research, 2015, 109, 1-9.	1.8	22
49	The Twilight Zone as a Major Foraging Habitat and Mercury Source for the Great White Shark. Environmental Science & Technology, 2020, 54, 15872-15882.	10.0	20
50	Isotopic niches of the blue shark Prionace glauca and the silky shark Carcharhinus falciformis in the southwestern Indian Ocean. Endangered Species Research, 2012, 17, 83-92.	2.4	20
51	Global patterns and inferences of tuna movements and trophodynamics from stable isotope analysis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 175, 104775.	1.4	19
52	Stable mercury concentrations of tropical tuna in the south western Pacific ocean: An 18-year monitoring study. Chemosphere, 2021, 263, 128024.	8.2	19
53	An environmentally induced tidal periodicity of microgrowth increment formation in subtidal populations of the clam Ruditapes philippinarum. Journal of Experimental Marine Biology and Ecology, 2011, 397, 58-64.	1.5	18
54	Modelling N₂ fixation related to <i>Trichodesmium</i> sp.: driving processes and impacts on primary production in the tropical Pacific Ocean. Biogeosciences, 2018, 15, 4333-4352.	3.3	16

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55	Trophic resources and mercury exposure of two silvertip shark populations in the Northeast Pacific Ocean. Chemosphere, 2020, 253, 126645.	8.2	12
56	Flying to the moon: Lunar cycle influences trip duration and nocturnal foraging behavior of the wedge-tailed shearwater Ardenna pacifica. Journal of Experimental Marine Biology and Ecology, 2020, 525, 151322.	1.5	11
57	Seabirds: Sentinels beyond the oceans. Science, 2019, 366, 813-813.	12.6	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. Scientific Reports, 2020, 10, 15129.	3.3	10
59	Defining the stock structures of key commercial tunas in the Pacific Ocean II: Sampling considerations and future directions. Fisheries Research, 2020, 230, 105524.	1.7	10
60	Bivalve Î´15N isoscapes provide a baseline for urban nitrogen footprint at the edge of a World Heritage coral reef. Marine Pollution Bulletin, 2020, 152, 110870.	5.0	9
61	Description of a global marine particulate organic carbon-13 isotope data set. Earth System Science Data, 2021, 13, 4861-4880.	9.9	9
62	Stable isotope ratios in bentho-demersal biota along a depth gradient in the Bay of Biscay: A multitrophic study. Estuarine, Coastal and Shelf Science, 2016, 179, 201-206.	2.1	8
63	Assimilation of shrimp farm sediment by Holothuria scabra: a coupled fatty acid and stable isotope approach. Aquatic Living Resources, 2020, 33, 3.	1.2	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. Environmental Science & Technology, 2021, 55, 15754-15765.	10.0	8
65	Mercury concentrations, biomagnification and isotopic discrimination factors in two seabird species from the Humboldt Current ecosystem. Marine Pollution Bulletin, 2022, 177, 113481.	5.0	8
66	Comment on Trophic strategy and bleaching resistance in reef-building corals. Science Advances, 2021, 7, .	10.3	7
67	Mercury concentrations in tuna blood and muscle mirror seawater methylmercury in the Western and Central Pacific Ocean. Marine Pollution Bulletin, 2022, 180, 113801.	5.0	7
68	Circadian behaviour of Tectus (Trochus) niloticus in the southwest Pacific inferred from accelerometry. Movement Ecology, 2015, 3, 26.	2.8	6
69	Variability in diel and seasonal in situ metabolism of the tropical gastropod Tectus niloticus. Aquatic Biology, 2015, 23, 167-182.	1.4	6
70	Foraging plasticity diversifies mercury exposure sources and bioaccumulation patterns in the world's largest predatory fish. Journal of Hazardous Materials, 2022, 425, 127956.	12.4	6
71	Seabird-Derived Nutrients Supply Modulates the Trophic Strategies of Mixotrophic Corals. Frontiers in Marine Science, 2022, 8, .	2.5	5
72	Lipid-free tuna muscle samples are suitable for total mercury analysis. Marine Environmental Research, 2021, 169, 105385.	2.5	3

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73	Mercury stable isotopes suggest reduced foraging depth in oxygen minimum zones for blue sharks. Marine Pollution Bulletin, 2022, 181, 113892.	5.0	3
74	Global data set for nitrogen and carbon stable isotopes of tunas. Ecology, 2021, 102, e03265.	3.2	2