

# Laurent Chauvaud

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4532165/publications.pdf>

Version: 2024-02-01

75  
papers

3,435  
citations

159358

30  
h-index

149479

56  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human activities and climate variability drive fast-paced change across the world's estuarine coastal ecosystems. <i>Global Change Biology</i> , 2016, 22, 513-529.	4.2	368
2	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
3	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
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	Marine eutrophication and benthos: the need for new approaches and concepts. <i>Global Change Biology</i> , 2002, 8, 813-830.	4.2	166
6	Strong kinetic effects on Sr/Ca ratios in the calcitic bivalve <i>Pecten maximus</i> . <i>Geology</i> , 2005, 33, 965.	2.0	126
7	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
8	Effects of environmental factors on the daily growth rate of <i>Pecten maximus</i> juveniles in the Bay of Brest (France). <i>Journal of Experimental Marine Biology and Ecology</i> , 1998, 227, 83-111.	0.7	122
9	Sperm features in turbot ( <i>Scophthalmus maximus</i> ): a comparison with other freshwater and marine fish species. <i>Aquatic Living Resources</i> , 1994, 7, 283-294.	0.5	107
10	Barium and molybdenum records in bivalve shells: Geochemical proxies for phytoplankton dynamics in coastal environments?. <i>Limnology and Oceanography</i> , 2009, 54, 1002-1014.	1.6	97
11	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	1.9	96
12	Direct evidence of a biologically active coastal silicate pump: Ecological implications. <i>Limnology and Oceanography</i> , 2002, 47, 1849-1854.	1.6	84
13	Clams as $\text{CO}_2$ generators: The <i>Potamocorbula amurensis</i> example in San Francisco Bay. <i>Limnology and Oceanography</i> , 2003, 48, 2086-2092.	1.6	81
14	Sperm motility in turbot, <i>Scophthalmus marimus</i> : initiation of movement and changes with time of swimming characteristics. <i>Environmental Biology of Fishes</i> , 1995, 43, 341-349.	0.4	76
15	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
16	Ancient <i>scp</i> DNA analysis identifies marine mollusc shells as new metagenomic archives of the past. <i>Molecular Ecology Resources</i> , 2017, 17, 835-853.	2.2	62
17	Variation in Size and Growth of the Great Scallop <i>Pecten maximus</i> along a Latitudinal Gradient. <i>PLoS ONE</i> , 2012, 7, e37717.	1.1	59
18	Comparison of <i>Zostera marina</i> and maerl community metabolism. <i>Aquatic Botany</i> , 2005, 83, 161-174.	0.8	50

#	ARTICLE	IF	CITATIONS
19	Spatial and temporal variability of benthic biogeochemical fluxes associated with macrophytic and macrofaunal distributions in the Thau lagoon (France). <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 432-446.	0.9	49
20	Structural analysis and paleoenvironmental potential of dog cockle shells ( <i>Glycymeris glycymeris</i> ) in Brittany, northwest France. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 373, 123-132.	1.0	48
21	Primary production and spatial distribution of subtidal microphytobenthos in a temperate coastal system, the Bay of Brest, France. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 74, 367-380.	0.9	44
22	Respiration, calcification, and excretion of the invasive slipper limpet, <i>Crepidula fornicata</i> L.: Implications for carbon, carbonate, and nitrogen fluxes in affected areas. <i>Limnology and Oceanography</i> , 2006, 51, 1996-2007.	1.6	42
23	Li/Ca enrichments in great scallop shells ( <i>Pecten maximus</i> ) and their relationship with phytoplankton blooms. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 373, 108-122.	1.0	41
24	Responses of Two Scleractinian Corals to Cobalt Pollution and Ocean Acidification. <i>PLoS ONE</i> , 2015, 10, e0122898.	1.1	41
25	Nickel and vanadium contamination of benthic invertebrates following the "Erika" wreck. <i>Aquatic Living Resources</i> , 2004, 17, 273-280.	0.5	38
26	Aerial and underwater carbon metabolism of a <i>Zostera noltii</i> seagrass bed in the Banc d'Arguin, Mauritania. <i>Aquatic Botany</i> , 2011, 95, 24-30.	0.8	38
27	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
28	Small actions, big costs: the behavioural energetics of a commercially important invertebrate. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1486-1498.	1.5	34
29	No limit? The multiphasic uptake of silicic acid by benthic diatoms. <i>Limnology and Oceanography</i> , 2009, 54, 571-576.	1.6	32
30	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. <i>Earth System Science Data</i> , 2020, 12, 151-176.	3.7	32
31	What'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
32	Respiration and Calcification of <i>Crassostrea gigas</i> : Contribution of an Intertidal Invasive Species to Coastal Ecosystem CO <sub>2</sub> Fluxes. <i>Estuaries and Coasts</i> , 2012, 35, 622-632.	1.0	30
33	Genetic structure of a commercially exploited bivalve, the great scallop <i>Pecten maximus</i> , along the European coasts. <i>Conservation Genetics</i> , 2016, 17, 57-67.	0.8	30
34	Diel variation of benthic respiration in a coral reef sediment (Reunion Island, Indian Ocean). <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 369-377.	0.9	29
35	Benthic response to ammonium pulses in a tropical lagoon: implications for coastal environmental processes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2005, 316, 231-241.	0.7	28
36	Reconstruction of seasonal temperature variability in the tropical Pacific Ocean from the shell of the scallop, <i>Comptopallium radula</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 918-928.	1.6	27

#	ARTICLE	IF	CITATIONS
37	Trophic resources of the bivalve, <i>Venus verrucosa</i> , in the Chausey archipelago (Normandy, France). <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 393, 158-167.	1.1	27
38	Determination of metal and organometal trophic bioaccumulation in the benthic macrofauna of the Adour estuary coastal zone (SW France, Bay of Biscay). <i>Journal of Environmental Monitoring</i> , 2005, 7, 693.	2.1	26
39	Experimental collection of great scallop postlarvae and other benthic species in the Bay of Brest: settlement patterns in relation to spatio-temporal variability of environmental factors. <i>Aquaculture International</i> , 1996, 4, 263-288.	1.1	23
40	A current synthesis on the effects of electric and magnetic fields emitted by submarine power cables on invertebrates. <i>Marine Environmental Research</i> , 2020, 159, 104958.	1.1	23
41	Experimental growth pattern calibration of Antarctic scallop shells ( <i>Adamussium colbecki</i> , Smith) changes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 393, 158-167.	0.7	21
42	Specific pathways for the incorporation of dissolved barium and molybdenum into the bivalve shell: An isotopic tracer approach in the juvenile Great Scallop ( <i>Pecten maximus</i> ). <i>Marine Environmental Research</i> , 2012, 78, 15-25.	1.1	21
43	Food source diversity, trophic plasticity, and omnivory enhance the stability of a shallow benthic food web from a high-Arctic fjord exposed to freshwater inputs. <i>Limnology and Oceanography</i> , 2021, 66, S259.	1.6	21
44	Growth of <i>Argopecten purpuratus</i> (Mollusca: Bivalvia) on a natural bank in Northern Chile: sclerochronological record and environmental controls. <i>Aquatic Living Resources</i> , 2008, 21, 45-55.	0.5	20
45	Trophic connectivity between offshore upwelling and the inshore food web of Banc d'Arguin (Mauritania): New insights from isotopic analysis. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 165, 149-158.	0.9	20
46	Marine soundscape shaped by fishing activity. <i>Royal Society Open Science</i> , 2017, 4, 160606.	1.1	20
47	Comparative dynamics of pelagic and benthic micro-algae in a coastal ecosystem. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 133, 67-77.	0.9	18
48	Contrasting shell growth strategies in two Mediterranean bivalves revealed by oxygen-isotope ratio geochemistry: The case of <i>Pecten jacobaeus</i> and <i>Glycymeris pilosa</i> . <i>Chemical Geology</i> , 2019, 526, 23-35.	1.4	18
49	Sound detection by the American lobster ( <i>Homarus americanus</i> ). <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	17
50	Spiny lobster sounds can be detectable over kilometres underwater. <i>Scientific Reports</i> , 2020, 10, 7943.	1.6	15
51	CO <sub>2</sub> generation by calcified invertebrates along rocky shores of Brittany, France. <i>Marine and Freshwater Research</i> , 2013, 64, 91.	0.7	14
52	Assessment of Ba/Ca in <i>Arctica islandica</i> shells as a proxy for phytoplankton dynamics in the Northwestern Atlantic Ocean. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 237, 106628.	0.9	14
53	Diurnal heterogeneity in silicic acid fluxes in shallow coastal sites: Causes and implications. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 82, 495-502.	0.9	13
54	Short-Term Behavioural Responses of the Great Scallop <i>Pecten maximus</i> Exposed to the Toxic Alga <i>Alexandrium minutum</i> Measured by Accelerometry and Passive Acoustics. <i>PLoS ONE</i> , 2016, 11, e0160935.	1.1	13

#	ARTICLE	IF	CITATIONS
55	Coastal upwelling in Norway recorded in Great Scallop shells. <i>Limnology and Oceanography</i> , 2015, 60, 1265-1275.	1.6	12
56	Anthropogenic boat noise reduces feeding success in winter flounder larvae ( <i>Pseudopleuronectes</i> ) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.4	12
57	Influence of riverine input on the growth of <i>Glycymeris glycymeris</i> in the Bay of Brest, North-West France. <i>PLoS ONE</i> , 2017, 12, e0189782.	1.1	12
58	Ba/Ca profiles in shells of <i>Pecten maximus</i> – A proxy for specific primary producers rather than bulk phytoplankton. <i>Chemical Geology</i> , 2022, 593, 120743.	1.4	12
59	Does trace element composition of bivalve shells record ultra-high frequency environmental variations?. <i>Marine Environmental Research</i> , 2020, 158, 104943.	1.1	11
60	System-Based Assessments – Improving the Confidence in the EIA Process. <i>Environments - MDPI</i> , 2017, 4, 95.	1.5	9
61	Seasonal variations in ectotherm growth rates: Quantifying growth as an intermittent non steady state compensatory process. <i>Journal of Sea Research</i> , 2011, 65, 355-361.	0.6	8
62	Feet, heat and scallops: what is the cost of anthropogenic disturbance in bivalve aquaculture?. <i>Royal Society Open Science</i> , 2016, 3, 150679.	1.1	8
63	Acoustic behaviour of male European lobsters ( <i>Homarus gammarus</i> ) during agonistic encounters. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	8
64	Potential for acoustic masking due to shipping noise in the European lobster ( <i>Homarus gammarus</i> ). <i>Marine Pollution Bulletin</i> , 2021, 173, 112934.	2.3	8
65	A novel approach using the 15N tracer technique and benthic chambers to determine ammonium fluxes at the sediment – water interface and its application in a back-reef zone on Reunion Island (Indian) Tj ETQq1 1 0.764314 rgBT/Overlock	1.4	8
66	Scallop shells as geochemical archives of phytoplankton – related ecological processes in a temperate coastal ecosystem. <i>Limnology and Oceanography</i> , 2022, 67, 187-202.	1.6	6
67	The ormer ( <i>Haliotis tuberculata</i> ): A new, promising paleoclimatic tool. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 427, 32-40.	1.0	5
68	Ligament, hinge, and shell cross-sections of the Atlantic surfclam ( <i>Spisula solidissima</i> ): Promising marine environmental archives in NE North America. <i>PLoS ONE</i> , 2018, 13, e0199212.	1.1	5
69	Insights into the behavioural responses of juvenile thornback ray <scp> <i>Raja clavata</i></scp> to alternating and direct current magnetic fields. <i>Journal of Fish Biology</i> , 2022, 100, 645-659.	0.7	5
70	A new probabilistic approach to estimating marine gastropod densities from baited traps. <i>Marine Ecology</i> , 2018, 39, e12509.	0.4	4
71	An inference procedure for behavioural studies combining numerical simulations, statistics and experimental results. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2019, 99, 1-7.	0.4	4
72	Using growth and geochemical composition of <i>Clathromorphum compactum</i> to track multiscale North Atlantic hydro-climate variability. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 562, 110097.	1.0	4

#	ARTICLE	IF	CITATIONS
73	Regional scale estimation of carbon fluxes from long-term monitoring of intertidal exposed rocky shore communities. <i>Journal of Marine Systems</i> , 2015, 149, 25-35.	0.9	1
74	Can artificial magnetic fields alter the functional role of the blue mussel, <i>Mytilus edulis</i> ? <i>Marine Biology</i> , 2022, 169, .	0.7	1
75	Sources, quality and transfers of organic matter in a highly-stratified sub-Arctic coastal system (Saint-Pierre-et-Miquelon, NW Atlantic). <i>Progress in Oceanography</i> , 2021, 190, 102483.	1.5	0