Laurent Seuront

List of Publications by Year
in descending order

133 papers	3,613 citations	147566 31 h-index	189595 50 g-index
135 all docs	135 docs citations	135 times ranked	3916 citing authors

#	Article	IF	Citations
1	Going with the flow: Experimental simulation of sediment transport from a foraminifera perspective. Sedimentology, 2022, 69, 1231-1251.	1.6	8
2	Plastic leachates: Bridging the gap between a conspicuous pollution and its pernicious effects on marine life. Science of the Total Environment, 2022, 826, 154091.	3.9	27
3	Symbiont-induced intraspecific phenotypic variation enhances plastic trapping and ingestion in biogenic habitats. Science of the Total Environment, 2022, 826, 153922.	3.9	6
4	Microplastic leachates disrupt the chemotactic and chemokinetic behaviours of an ecosystem engineer (Mytilus edulis). Chemosphere, 2022, 306, 135425.	4.2	11
5	Microplastic leachates induce speciesâ€specific trait strengthening in intertidal mussels. Ecological Applications, 2021, 31, e02222.	1.8	23
6	Effects of temperature on the behaviour and metabolism of an intertidal foraminifera and consequences for benthic ecosystem functioning. Scientific Reports, 2021, 11, 4013.	1.6	18
7	Foulâ€weather friends: Modelling thermal stress mitigation by symbiotic endolithic microbes in a changing environment. Global Change Biology, 2021, 27, 2549-2560.	4.2	8
8	Behavioral repertoire of highâ€shore littorinid snails reveals novel adaptations to an extreme environment. Ecology and Evolution, 2021, 11, 7114-7124.	0.8	7
9	Density-Dependent and Species-Specific Effects on Self-Organization Modulate the Resistance of Mussel Bed Ecosystems to Hydrodynamic Stress. American Naturalist, 2021, 197, 615-623.	1.0	6
10	Inter-specific and inter-individual trait variability matter in surface sediment reworking rates of intertidal benthic foraminifera. Marine Biology, 2021, 168, 1.	0.7	6
11	Seasonal Variations in the Biodiversity, Ecological Strategy, and Specialization of Diatoms and Copepods in a Coastal System With Phaeocystis Blooms: The Key Role of Trait Trade-Offs. Frontiers in Marine Science, 2021, 8, .	1.2	7
12	The rÃ1es of plankton and neuston microbial organic matter in climate regulation. Journal of Plankton Research, 2021, 43, 801-821.	0.8	4
13	Heads in the clouds: On the carbon footprint of conferenceâ€seeded publications in the advancement of knowledge. Ecology and Evolution, 2021, 11, 15205-15211.	0.8	5
14	Weather and topography regulate the benefit of a conditionally helpful parasite. Functional Ecology, 2021, 35, 2691-2706.	1.7	4
15	Motion behavior and metabolic response to microplastic leachates in the benthic foraminifera Haynesina germanica. Journal of Experimental Marine Biology and Ecology, 2020, 529, 151395.	0.7	17
16	Microhabitats choice in intertidal gastropods is species-, temperature- and habitat-specific. Journal of Thermal Biology, 2020, 94, 102785.	1.1	8
17	Movement patterns of the epizoic limpet Lottia tenuisculpta on two host snails Omphalius nigerrimus and Reishia clavigera. Molluscan Research, 2020, 40, 313-319.	0.2	1
18	Nutrient Patchiness, Phytoplankton Surge-Uptake, and Turbulent History: A Theoretical Approach and Its Experimental Validation. Fluids, 2020, 5, 80.	0.8	1

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19	Trapping of swimming microalgae in foam. Journal of the Royal Society Interface, 2020, 17, 20200077.	1.5	11
20	Benthic foraminifera to assess ecological quality statuses: The case of salmon fish farming. Ecological Indicators, 2020, 117, 106607.	2.6	18
21	Deciphering the known unknowns in the behavioural ecology of the intertidal gastropod Littorina littorea. Journal of Experimental Marine Biology and Ecology, 2020, 524, 151313.	0.7	3
22	A Correction and Discussion on Log-Normal Intermittency B-Model. Fluids, 2019, 4, 35.	0.8	1
23	Decreased thermal tolerance under recurrent heat stress conditions explains summer mass mortality of the blue mussel Mytilus edulis. Scientific Reports, 2019, 9, 17498.	1.6	88
24	Size rules life, but does it in the assessment of medical vigilance best practice? Towards a testable hypothesis. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 707-715.	1.2	1
25	First records of Ptilohyale littoralis (Amphipoda: Hyalidae) and Boccardia proboscidea (Polychaeta:) Tj ETQq1 1 0.784314 rgBT /Overlo Marine Biodiversity, 2018, 48, 1109-1119.	0.3	9
26	Microplastic leachates impair behavioural vigilance and predator avoidance in a temperate intertidal gastropod. Biology Letters, 2018, 14, 20180453.	1.0	77
27	Taxonomic and metabolic shifts in the Coorong bacterial metagenome driven by salinity and external inputs. Journal of Oceanology and Limnology, 2018, 36, 2033-2049.	0.6	4
28	Cue hierarchy in the foraging behaviour of the brackish cladoceran Daphniopsis australis. Journal of Oceanology and Limnology, 2018, 36, 2050-2060.	0.6	3
29	Littorina littorea show small-scale persistent tidal height and habitat partitioning that is resilient to dislodgement through specific movement rates. Journal of Experimental Marine Biology and Ecology, 2018, 509, 24-35.	0.7	3
30	A review of the thermal biology and ecology of molluscs, and of the use of infrared thermography in molluscan research. Journal of Molluscan Studies, 2018, 84, 203-232.	0.4	23
31	Biological modification of mechanical properties of the sea surface microlayer, influencing waves, ripples, foam and air-sea fluxes. Elementa, 2018, 6, .	1.1	23
32	On the edge: The use of infrared thermography in monitoring responses of intertidal organisms to heat stress. Ecological Indicators, 2017, 81, 567-577.	2.6	19
33	Linking behaviour and climate change in intertidal ectotherms: insights from littorinid snails. Journal of Experimental Marine Biology and Ecology, 2017, 492, 121-131.	0.7	64
34	Fractal analysis provides new insights into the complexity of marine mammal behavior: A review, two methods, their application to diving and surfacing patterns, and their relevance to marine mammal welfare assessment. Marine Mammal Science, 2017, 33, 847-879.	0.9	8
35	Cheating the Locals: Invasive Mussels Steal and Benefit from the Cooling Effect of Indigenous Mussels. PLoS ONE, 2016, 11, e0152556.	1.1	20
36	Meeting the climate change challenge: Pressing issues in southern China and SE Asian coastal ecosystems. Regional Studies in Marine Science, 2016, 8, 373-381.	0.4	32

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37	Size and position (sometimes) matter: small-scale patterns of heat stress associated with two co-occurring mussels with different thermoregulatory behaviour. Marine Biology, 2016, 163, 1.	0.7	13
38	Changes in the behavioural complexity of bottlenose dolphins along a gradient of anthropogenically-impacted environments in South Australian coastal waters: Implications for conservation and management strategies. Journal of Experimental Marine Biology and Ecology, 2016, 482, 118-127.	0.7	10
39	Standing in the sun: infrared thermography reveals distinct thermal regulatory behaviours in two tropical high-shore littorinid snails. Journal of Molluscan Studies, 2016, 82, 336-340.	0.4	30
40	Living on the continental shelf edge: habitat use of juvenile shortfin makos Isurus oxyrinchus in the Great Australian Bight, southern Australia. Fisheries Oceanography, 2015, 24, 205-218.	0.9	29
41	Thalassorheology, organic matter and plankton: towards a more viscous approach in plankton ecology. Journal of Plankton Research, 2015, , fbv071.	0.8	9
42	The smell of sex: water-borne and air-borne sex pheromones in the intertidal gastropod Littorina littorea. Journal of Molluscan Studies, 2015, 81, 96-103.	0.4	6
43	On uses, misuses and potential abuses of fractal analysis in zooplankton behavioral studies: A review, a critique and a few recommendations. Physica A: Statistical Mechanics and Its Applications, 2015, 432, 410-434.	1.2	13
44	THE DEVIL LIES IN DETAILS: NEW INSIGHTS INTO THE BEHAVIOURAL ECOLOGY OF INTERTIDAL FORAMINIFERA. Journal of Foraminiferal Research, 2015, 45, 390-401.	0.1	25
45	When Complexity Rimes with Sanity: Loss of Fractal and Multifractal Behavioural Complexity as an Indicator of Sublethal Contaminations in Zooplankton. , 2015, , 129-137.		6
46	Exogenous control of the feeding activity in the invasive Asian shore crab Hemigrapsus sanguineus (De Haan, 1835). Aquatic Invasions, 2015, 10, 327-332.	0.6	11
47	Towards a Standardized Approach of Cetacean Habitat: Past Achievements and Future Directions. Open Journal of Marine Science, 2015, 05, 335-357.	0.3	9
48	Anomalous diffusion and multifractality enhance mating encounters in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2206-2211.	3.3	60
49	Infrared thermography in marine ecology: methods, previous applications and future challenges. Marine Ecology - Progress Series, 2014, 514, 263-277.	0.9	29
50	Indo-Pacific bottlenose dolphin (Tursiops aduncus) habitat preference in a heterogeneous, urban, coastal environment. Aquatic Biosystems, 2013, 9, 3.	1.8	15
51	The effects of cage-diving activities on the fine-scale swimming behaviour and space use of white sharks. Marine Biology, 2013, 160, 2863-2875.	0.7	66
52	Chemical and hydromechanical components of mate-seeking behaviour in the calanoid copepod Eurytemora affinis. Journal of Plankton Research, 2013, 35, 724-743.	0.8	14
53	Population-specific shifts in viral and microbial abundance within a cryptic upwelling. Journal of Marine Systems, 2013, 113-114, 52-61.	0.9	14
54	Complex dynamics in the distribution of playersâ€™ scoring performance in Rugby Union world cups. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3731-3740.	1.2	5

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55	Broadâ€scale movements and pelagic habitat of the dusky shark <scp>C</scp>archarhinus obscurus off <scp>S</scp>outhern <scp>A</scp>ustralia determined using popâ€up satellite archival tags. Fisheries Oceanography, 2013, 22, 102-112.	0.9	28
56	Population metrics and movement of two sympatric carcharhinids: a comparison of the vulnerability of pelagic sharks of the southern Australian gulfs and shelves. Marine and Freshwater Research, 2013, 64, 20.	0.7	13
57	Experimental Evaluation of Fatty Acid Profiles as a Technique to Determine Dietary Composition in Benthic Elasmobranchs. Physiological and Biochemical Zoology, 2013, 86, 266-278.	0.6	26
58	Thermally mediated body temperature, water content and aggregation behaviour in the intertidal gastropod Nerita atramentosa. Ecological Research, 2013, 28, 407-416.	0.7	22
59	Temporal shifts in motion behaviour and habitat use in an intertidal gastropod. Journal of the Marine Biological Association of the United Kingdom, 2013, 93, 1025-1034.	0.4	9
60	The Role of Diatom Nanostructures in Biasing Diffusion to Improve Uptake in a Patchy Nutrient Environment. PLoS ONE, 2013, 8, e59548.	1.1	48
61	Site fidelity and behaviour of spinner dolphins (Stenella longirostris) in Moon Reef, Fiji Islands: implications for conservation. Journal of the Marine Biological Association of the United Kingdom, 2012, 92, 1793-1798.	0.4	15
62	A quantitative comparison of the diets of sympatric pelagic sharks in gulf and shelf ecosystems off southern Australia. ICES Journal of Marine Science, 2012, 69, 1382-1393.	1.2	24
63	Keeping warm in the cold: On the thermal benefits of aggregation behaviour in an intertidal ectotherm. Journal of Thermal Biology, 2012, 37, 640-647.	1.1	23
64	Shifts in picophytoplankton community structure influenced by changing upwelling conditions. Estuarine, Coastal and Shelf Science, 2012, 109, 81-90.	0.9	20
65	Increases in the abundance of microbial genes encoding halotolerance and photosynthesis along a sediment salinity gradient. Biogeosciences, 2012, 9, 815-825.	1.3	26
66	A local upwelling controls viral and microbial community structure in South Australian continental shelf waters. Estuarine, Coastal and Shelf Science, 2012, 96, 197-208.	0.9	19
67	Variability in the motion behaviour of intertidal gastropods: ecological and evolutionary perspectives. Journal of the Marine Biological Association of the United Kingdom, 2011, 91, 237-244.	0.4	16
68	Regulation of life history in the brackish cladoceran, Daphniopsis australis (Sergeev and Williams,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	11
69	Fractal analysis reveals pernicious stress levels related to boat presence and type in the Indoâ€“Pacific bottlenose dolphin, Tursiops aduncus. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2333-2339.	1.2	28
70	Behavioral thermoregulation in a tropical gastropod: links to climate change scenarios. Global Change Biology, 2011, 17, 1740-1749.	4.2	93
71	Space-time variability in environmental thermal properties and snail thermoregulatory behaviour. Functional Ecology, 2011, 25, 1040-1050.	1.7	59
72	Dietary responses of the brackish cladoceran Daphniopsis australis fed on different algal species. Journal of Experimental Marine Biology and Ecology, 2011, 409, 275-282.	0.7	7

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73	Thereâ€™s more to the picture than meets the eye: Sampling microphytobenthos in a heterogeneous environment. Estuarine, Coastal and Shelf Science, 2011, 95, 470-476.	0.9	42
74	Behavioral fractality in marine copepods: Endogenous rhythms versus exogenous stressors. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 250-256.	1.2	19
75	Influence of local physical events on picophytoplankton spatial and temporal dynamics in South Australian continental shelf waters. Journal of Plankton Research, 2011, 33, 1825-1841.	0.8	26
76	Substrate Type Determines Metagenomic Profiles from Diverse Chemical Habitats. PLoS ONE, 2011, 6, e25173.	1.1	26
77	Hydrocarbon Contamination Decreases Mating Success in a Marine Planktonic Copepod. PLoS ONE, 2011, 6, e26283.	1.1	36
78	Impacts of male and food density on female performance in the brackish cladoceran Daphniopsis australis. Hydrobiologia, 2010, 652, 277-288.	1.0	7
79	Distribution of picophytoplankton communities from brackish to hypersaline waters in a South Australian coastal lagoon. Saline Systems, 2010, 6, 2.	2.0	33
80	Prokaryotic aminopeptidase activity along a continuous salinity gradient in a hypersaline coastal lagoon (the Coorong, South Australia). Saline Systems, 2010, 6, 5.	2.0	4
81	MORPHOLOGICAL FLEXIBILITY OF COCCONEIS PLACENTULA (BACILLARIOPHYCEAE) NANOSTRUCTURE TO CHANGING SALINITY LEVELS1. Journal of Phycology, 2010, 46, 715-719.	1.0	25
82	How does salinity influence the swimming speed of the estuarine calanoid copepod Eurytemora affinis?. Journal of Plankton Research, 2010, 32, 1223-1225.	0.8	9
83	Zooplankton avoidance behaviour as a response to point sources of hydrocarbon-contaminated water. Marine and Freshwater Research, 2010, 61, 263.	0.7	21
84	Iron defecation by sperm whales stimulates carbon export in the Southern Ocean. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3527-3531.	1.2	120
85	Role of microbial and phytoplanktonic communities in the control of seawater viscosity off East Antarctica (30-80Â° E). Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 877-886.	0.6	28
86	Distribution and abundance of marine microbes in the Southern Ocean between 30 and 80Â°E. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 815-827.	0.6	39
87	Symbolic dynamics and entropies of copepod behaviour under non-turbulent and turbulent conditions. Journal of Marine Systems, 2009, 77, 388-396.	0.9	14
88	Identification of the food sources of sympatric ghost shrimp (Trypaea australiensis) and soldier crab (Mictyris longicarpus) populations using a lipid biomarker, dual stable isotope approach. Austral Ecology, 2009, 34, 878-888.	0.7	21
89	Heavy metal toxicity of kidney and bone tissues in South Australian adult bottlenose dolphins (Tursiops aduncus). Marine Environmental Research, 2009, 67, 1-7.	1.1	65
90	Cue synergy inLittorina littoreanavigation following wave dislodgement. Journal of the Marine Biological Association of the United Kingdom, 2009, 89, 1133-1136.	0.4	14

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91	Distribution of heterotrophic bacteria and virus-like particles along a salinity gradient in a hypersaline coastal lagoon. Aquatic Microbial Ecology, 2009, 54, 171-183.	0.9	33
92	Phytoplankton patch patterns: Seascape anatomy in a turbulent ocean. Journal of Marine Systems, 2008, 69, 247-253.	0.9	53
93	Towards a seascape typology. I. Zipf versus Pareto laws. Journal of Marine Systems, 2008, 69, 310-327.	0.9	12
94	Towards a seascape topology II: Zipf analysis of one-dimensional patterns. Journal of Marine Systems, 2008, 69, 328-338.	0.9	2
95	Intermittent turbulence and copepod dynamics: Increase in encounter rates through preferential concentration. Journal of Marine Systems, 2008, 70, 263-272.	0.9	31
96	Spatial variation in burrow morphology of the mud shore crab Helograpsus haswellianus (Brachyura,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	22
97	Temporal patterns of phytoplankton assemblages, size spectra and diversity during the wane of aPhaeocystis globosaspring bloom in hydrologically contrasted coastal waters. Journal of the Marine Biological Association of the United Kingdom, 2008, 88, 649-662.	0.4	39
98	Bacterial and viral dynamics during a mass coral spawning period on the Great Barrier Reef. Aquatic Microbial Ecology, 2008, 50, 209-220.	0.9	40
99	Increased seawater viscosity, Phaeocystis globosa spring bloom and Temora longicornis feeding and swimming behaviours. Marine Ecology - Progress Series, 2008, 363, 131-145.	0.9	41
100	Heavy-tailed distributions in the intermittent motion behaviour of the intertidal gastropod Littorina littorea. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 573-582.	1.2	31
101	Microscale gradients of planktonic microbial communities above the sediment surface in a mangrove estuary. Estuarine, Coastal and Shelf Science, 2007, 73, 651-666.	0.9	36
102	Net and gross incorporation of nitrogen by marine copepods fed on 15N-labelled diatoms: Methodology and trophic studies. Journal of Experimental Marine Biology and Ecology, 2007, 352, 295-305.	0.7	19
103	Increased Zooplankton Behavioral Stress in Response to Short-Term Exposure to Hydrocarbon Contamination. The Open Oceanography Journal, 2007, 1, 1-7.	0.2	19
104	Short-term variability of intertidal benthic community production during emersion and the implication in annual budget calculation. Marine Ecology - Progress Series, 2007, 333, 95-101.	0.9	31
105	Phytoplankton microstructure in fully developed oceanic turbulence. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	20
106	A pneumatically operated, submersible, 3-dimensional water sampler for microscale studies. Limnology and Oceanography: Methods, 2006, 4, 260-267.	1.0	4
107	Scaling of swimming sequences in copepod behavior: Data analysis and simulation. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 287-296.	1.2	30
108	Effects of small-scale turbulence on Phaeocystis globosa (Prymnesiophyceae) growth and life cycle. Journal of Experimental Marine Biology and Ecology, 2006, 335, 27-38.	0.7	20

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109	Biologically induced modification of seawater viscosity in the Eastern English Channel during a Phaeocystis globosa spring bloom. Journal of Marine Systems, 2006, 61, 118-133.	0.9	80
110	A 5-year study of the influence of the northeast and southwest monsoons on copepod assemblages in the boundary coastal waters between the East China Sea and the Taiwan Strait. Journal of Plankton Research, 2006, 28, 943-958.	0.8	81
111	High-Resolution Fluorometer for Mapping Microscale Phytoplankton Distributions. Applied and Environmental Microbiology, 2006, 72, 4475-4478.	1.4	19
112	Effect of salinity on the swimming behaviour of the estuarine calanoid copepod Eurytemora affinis. Journal of Plankton Research, 2006, 28, 805-813.	0.8	48
113	Differential contribution of diatoms and dinoflagellates to phytoplankton biomass in the NE Atlantic Ocean and the North Sea. Marine Ecology - Progress Series, 2006, 312, 57-65.	0.9	40
114	Effects of chlorophyll concentration and temperature variation on the reproduction and survival of Temora longicornis (Copepoda, Calanoida) in the Eastern English Channel. Journal of Experimental Marine Biology and Ecology, 2005, 318, 145-162.	0.7	45
115	Describing space-time patterns in aquatic ecology using IBMs and scaling and multi-scaling approaches. Nonlinear Analysis: Real World Applications, 2005, 6, 705-730.	0.9	16
116	First record of the calanoid copepod Acartia omorii (Copepoda: Calanoida: Acartiidae) in the southern bight of the North Sea. Journal of Plankton Research, 2005, 27, 1301-1306.	0.8	15
117	Multiscaling statistical procedures for the exploration of biophysical couplings in intermittent turbulence. Part II. Applications. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 1325-1343.	0.6	16
118	Multiscaling statistical procedures for the exploration of biophysical couplings in intermittent turbulence. Part I. Theory. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 1308-1324.	0.6	22
119	Development and mortality of the first naupliar stages of Eurytemora affinis (Copepoda, Calanoida) under different conditions of salinity and temperature. Journal of Experimental Marine Biology and Ecology, 2004, 303, 31-46.	0.7	68
120	Small-scale turbulence in the plankton: low-order deterministic chaos or high-order stochasticity?. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 495-525.	1.2	8
121	Eulerian and Lagrangian properties of biophysical intermittency in the ocean. Geophysical Research Letters, 2004, 31, .	1.5	20
122	Quantifying Zooplankton Swimming Behavior. , 2003, , 333-359.		18
123	Using Multiagent Systems to Develop Individual-Based Models for Copepods. , 2003, , 523-542.		0
124	Comparison of Biological Scale Resolution from CTD and Microstructure Measurements. , 2003, , 3-15.		0
125	A New Free-Fall Profiler for Measuring Biophysical Microstructure. Journal of Atmospheric and Oceanic Technology, 2002, 19, 780-793.	0.5	206
126	Photo-inhibition and seasonal photosynthetic performance of the seaweedLaminaria saccharinaduring a simulated tidal cycle: chlorophyll fluorescence measurements and pigment analysis. Plant, Cell and Environment, 2002, 25, 859-872.	2.8	71

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127	Self-organized criticality in intertidal microphytobenthos patch patterns. Physica A: Statistical Mechanics and Its Applications, 2002, 313, 513-539.	1.2	80
128	Turbulence intermittency, small-scale phytoplankton patchiness and encounter rates in plankton: where do we go from here?. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1199-1215.	0.6	58
129	Multifractal random walk in copepod behavior. Physica A: Statistical Mechanics and Its Applications, 2001, 301, 375-396.	1.2	87
130	VARIABILITY, INHOMOGENEITY AND HETEROGENEITY: TOWARDS A TERMINOLOGICAL CONSENSUS IN ECOLOGY. Journal of Biological Systems, 2001, 09, 81-87.	0.5	4
131	Spatio-temporal structure of tidally mixed coastal waters: variability and heterogeneity. Journal of Plankton Research, 1998, 20, 1387-1401.	0.8	19
132	Multifractal analysis of phytoplankton biomass and temperature in the ocean. Geophysical Research Letters, 1996, 23, 3591-3594.	1.5	73
133	Hydrocarbon Contamination and the Swimming Behavior of the Estuarine Copepod Eurytemora affinis. , 0, , .		1