

Patrice Brehmer

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,451
citations

257450

24
h-index

395702

33
g-index

92
all docs

92
docs citations

92
times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Coastal Lagoon Quality with Taxonomic Diversity Indices of Fish, Zoobenthos and Macrophyte Communities. <i>Hydrobiologia</i> , 2005, 550, 121-130.	2.0	74
2	Towards an acoustic-based coupled observation and modelling system for monitoring and predicting ecosystem dynamics of the open ocean. <i>Fish and Fisheries</i> , 2013, 14, 605-615.	5.3	66
3	New applications of hydroacoustic methods for monitoring shallow water aquatic ecosystems: the case of mussel culture grounds. <i>Aquatic Living Resources</i> , 2003, 16, 333-338.	1.2	49
4	Effect of environmental conditions on the seasonal and inter-annual variability of small pelagic fish abundance off North-West Africa: The case of both Senegalese sardinella. <i>Fisheries Oceanography</i> , 2017, 26, 583-601.	1.7	49
5	Omnidirectional multibeam sonar monitoring: applications in fisheries science. <i>Fish and Fisheries</i> , 2006, 7, 165-179.	5.3	48
6	Profitability and economic drivers of small pelagic fisheries in West Africa: A twenty year perspective. <i>Marine Policy</i> , 2017, 76, 152-158.	3.2	46
7	Amphidromous fish school migration revealed by combining fixed sonar monitoring (horizontal) Tj ETQq1 1 0.784314 rgBT / Overlock 10 1.5 45		
8	A small-scale oceanic eddy off the coast of West Africa studied by multi-sensor satellite and surface drifter data. <i>Remote Sensing of Environment</i> , 2013, 129, 132-143.	11.0	44
9	Advancing Observation of Ocean Biogeochemistry, Biology, and Ecosystems With Cost-Effective in situ Sensing Technologies. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	42
10	Schooling behaviour of small pelagic fish: phenotypic expression of independent stimuli. <i>Marine Ecology - Progress Series</i> , 2007, 334, 263-272.	1.9	39
11	Composition and structure of the larval fish community related to environmental parameters in a tropical estuary impacted by climate change. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 197, 10-26.	2.1	37
12	Complex small pelagic fish population patterns arising from individual behavioral responses to their environment. <i>Progress in Oceanography</i> , 2018, 164, 12-27.	3.2	35
13	SST patterns and dynamics of the southern Senegal-Gambia upwelling center. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8315-8335.	2.6	33
14	What drives the spatial variability of primary productivity and matter fluxes in the north-west African upwelling system? A modelling approach. <i>Biogeosciences</i> , 2016, 13, 6419-6440.	3.3	33
15	On the Dynamics of the Southern Senegal Upwelling Center: Observed Variability from Synoptic to Superinertial Scales. <i>Journal of Physical Oceanography</i> , 2017, 47, 155-180.	1.7	33
16	Dynamics of a low-enrichment high-retention upwelling center over the southern Senegal shelf. <i>Geophysical Research Letters</i> , 2017, 44, 5034-5043.	4.0	33
17	Larval fish assemblages across an upwelling front: Indication for active and passive retention. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 187, 118-133.	2.1	32
18	Simultaneous Sv and TS measurements on Young-of-the-Year (YOY) freshwater fish using three frequencies. <i>ICES Journal of Marine Science</i> , 2004, 61, 267-273.	2.5	31

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19	Acoustic micronektonic distribution is structured by macroscale oceanographic processes across 20°–50°S latitudes in the South-Western Indian Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 110, 20-32.	1.4	29
20	Matecho: An Open-Source Tool for Processing Fisheries Acoustics Data. <i>Acoustics Australia</i> , 2018, 46, 241-248.	2.4	29
21	Acoustic distribution of discriminated micronektonic organisms from a bi-frequency processing: The case study of eastern Kerguelen oceanic waters. <i>Progress in Oceanography</i> , 2017, 156, 276-289.	3.2	28
22	Can overexploited fisheries recover by self-organization? Reallocation of fishing effort as an emergent form of governance. <i>Marine Policy</i> , 2018, 95, 46-56.	3.2	28
23	Contrasted optimal environmental windows for both sardinella species in Senegalese waters. <i>Fisheries Oceanography</i> , 2018, 27, 351-365.	1.7	27
24	Echotrace classification and spatial distribution of pelagic fish aggregations around drifting fish aggregating devices (DFAD). <i>Aquatic Living Resources</i> , 2007, 20, 343-356.	1.2	26
25	Implementation of artificial habitats: Inside or outside the marine protected areas? Insights from a mathematical approach. <i>Ecological Modelling</i> , 2015, 297, 98-106.	2.5	25
26	Three dimensional characteristics of young-of-year pelagic fish schools in lake. <i>Aquatic Living Resources</i> , 2006, 19, 115-122.	1.2	23
27	Resilience of Key Biological Parameters of the Senegalese Flat Sardinella to Overfishing and Climate Change. <i>PLoS ONE</i> , 2016, 11, e0156143.	2.5	23
28	Evidence of a variable 'unsampled' pelagic fish biomass in shallow water (<20 m): the case of the Gulf of Lion. <i>ICES Journal of Marine Science</i> , 2006, 63, 444-451.	2.5	22
29	Towards an Autonomous Pelagic Observatory: Experiences from Monitoring Fish Communities around Drifting FADs. <i>Thalassas</i> , 2019, 35, 177-189.	0.5	21
30	Adaptation of fisheries sonar for monitoring schools of large pelagic fish: dependence of schooling behaviour on fish finding efficiency. <i>Aquatic Living Resources</i> , 2007, 20, 377-384.	1.2	20
31	Survey boat effect on YOY fish schools in a pre-Alpine lake: evidence from multibeam sonar and split-beam echosounder data. <i>Ecology of Freshwater Fish</i> , 2010, 19, 373-380.	1.4	20
32	Fisheries Acoustics: Theory and Practice, 2nd edn. <i>Fish and Fisheries</i> , 2006, 7, 227-228.	5.3	19
33	Field investigations and multi-indicators for shallow water lagoon management: perspective for societal benefit. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2011, 21, 728-742.	2.0	19
34	Multibeam sonar detection of suspended mussel culture grounds in the open sea: Direct observation methods for management purposes. <i>Aquaculture</i> , 2006, 252, 234-241.	3.5	18
35	Three-dimensional internal spatial structure of young-of-the-year pelagic freshwater fish provides evidence for the identification of fish school species. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 322-328.	2.0	16
36	Does coastal lagoon habitat quality affect fish growth rate and their recruitment? Insights from fishing and acoustic surveys. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 126, 1-6.	2.1	16

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37	Spatiotemporal distribution of fish schools around drifting fish aggregating devices. <i>Fisheries Research</i> , 2016, 177, 39-49.	1.7	15
38	Exploratory and Instantaneous Swimming Speeds of Amphidromous Fish School in Shallow-Water Coastal Lagoon Channels. <i>Estuaries and Coasts</i> , 2011, 34, 739-744.	2.2	14
39	Fish-length based indicators for improved management of the sardinella fisheries in Senegal. <i>Regional Studies in Marine Science</i> , 2019, 31, 100801.	0.7	14
40	Competition or cooperation in transboundary fish stocks management: Insight from a dynamical model. <i>Journal of Theoretical Biology</i> , 2018, 447, 1-11.	1.7	13
41	First Evidence of Anoxia and Nitrogen Loss in the Southern Canary Upwelling System. <i>Geophysical Research Letters</i> , 2019, 46, 2619-2627.	4.0	13
42	Studying the contribution of different fishing gears to the <i>Sardinella</i> small-scale fishery in Senegalese waters. <i>Aquatic Living Resources</i> , 2017, 30, 27.	1.2	12
43	Vessel Avoidance Response: A Complex Tradeoff Between Fish Multisensory Integration and Environmental Variables. <i>Reviews in Fisheries Science and Aquaculture</i> , 2019, 27, 380-391.	9.1	12
44	Complex data labeling with deep learning methods: Lessons from fisheries acoustics. <i>ISA Transactions</i> , 2021, 109, 113-125.	5.7	12
45	On the robustness of an eastern boundary upwelling ecosystem exposed to multiple stressors. <i>Scientific Reports</i> , 2021, 11, 1908.	3.3	11
46	Dynamics and Mutations in the Artisanal Senegalese Fisheries Management. From Centralised Resources Management to Participatory and Sustainable Dynamics. <i>Norois</i> , 2019, , 55-72.	0.2	11
47	Does upwelling intensity determine larval fish habitats in upwelling ecosystems? The case of Senegal and Mauritania. <i>Fisheries Oceanography</i> , 2017, 26, 655-667.	1.7	10
48	Population dynamics and stock assessment of <i>Ethmalosa fimbriata</i> in Senegal call for fishing regulation measures. <i>Regional Studies in Marine Science</i> , 2018, 24, 165-173.	0.7	10
49	Résilience et activité des pêcheurs artisans au Sénégal: la crise écologique comme moteur d'innovations. <i>Mondes En Développement</i> , 2021, n° 193, 109-127.	0.3	10
50	Variability of key biological parameters of round sardinella <i>Sardinella aurita</i> and the effects of environmental changes. <i>Journal of Fish Biology</i> , 2019, 94, 391-401.	1.6	9
51	The potential impact of marine protected areas on the Senegalese sardinella fishery. <i>Ocean and Coastal Management</i> , 2019, 169, 239-246.	4.4	9
52	Subsurface Fine-Scale Patterns in an Anticyclonic Eddy Off Cap Vert Peninsula Observed From Glider Measurements. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6312-6329.	2.6	8
53	Evidence that whales (<i>Balaenoptera borealis</i>) visit drifting fish aggregating devices: do their presence affect the processes underlying fish aggregation?. <i>Marine Ecology</i> , 2012, 33, 176-182.	1.1	7
54	Spatial distribution of main clupeid species in relation to acoustic assessment surveys in the continental shelves of Senegal and The Gambia. <i>Aquatic Living Resources</i> , 2018, 31, 9.	1.2	7

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55	Fine-scale vertical structure of sound-scattering layers over an east border upwelling system and its relationship to pelagic habitat characteristics. <i>Ocean Science</i> , 2020, 16, 65-81.	3.4	7
56	Spawning energetics and otolith microchemistry provide insights into the stock structure of bonga shad <i>Ethmalosa fimbriata</i> . <i>Journal of Fish Biology</i> , 2019, 94, 241-250.	1.6	6
57	Successful artificial reefs depend on getting the context right due to complex socio-bio-economic interactions. <i>Scientific Reports</i> , 2021, 11, 16698.	3.3	6
58	Effect of Small Versus Large Clusters of Fish School on the Yield of a Purse-Seine Small Pelagic Fishery Including a Marine Protected Area. <i>Acta Biotheoretica</i> , 2014, 62, 339-353.	1.5	5
59	Bonga shad (<i>Ethmalosa fimbriata</i>) spawning tactics in an upwelling environment. <i>Fisheries Oceanography</i> , 2019, 28, 686-697.	1.7	4
60	How do Climate Modes Shape the Chlorophyll <i>a</i> Interannual Variability in the Tropical Atlantic?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093769.	4.0	4
61	Insights from a multibeam echosounder to survey pelagic fish shoals and their spatio-temporal distribution in ultra-shallow waters. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 264, 107705.	2.1	4
62	Applying Acoustic Scattering Layer Descriptors to Depict Mid-Trophic Pelagic Organisation: The Case of Atlantic African Large Marine Ecosystems Continental Shelf. <i>Fishes</i> , 2022, 7, 86.	1.7	4
63	In-situ holography microscopy of plankton and particles over the continental shelf of Senegal. , 2013, , .		3
64	Report of a Zoanthus Zone from the Cabo Verde Islands (Central Eastern Atlantic). <i>Thalassas</i> , 2018, 34, 409-413.	0.5	3
65	Methanogenic and fertilizing potential of aquaculture waste: towards freshwater farms energy self-sufficiency in the framework of blue growth. <i>Reviews in Aquaculture</i> , 2020, 12, 1435-1444.	9.0	3
66	Eastern Tropical Atlantic Mixed Layer Depth: Assessment of Methods from In Situ Profiles in the Gulf of Guinea from Coastal to High Sea. <i>Thalassas</i> , 2020, 36, 201-212.	0.5	3
67	Efficiency of two contrasted marine protected areas (MPA) in West Africa over a decade of fishing closure. <i>Ocean and Coastal Management</i> , 2021, 210, 105655.	4.4	3
68	Advances in fisheries science through emerging observing technologies. , 2020, , .		3
69	Routine acoustic data as new tools for a 3D vision of the abiotic and biotic components of marine ecosystem and their interactions. , 2013, , .		2
70	Dilemma of total allowable catch (TACs) allocated as shareable quotas: Applying a bio-economic game-theoretical approach to euro-mauritanian fisheries agreements. <i>Aquaculture and Fisheries</i> , 2022, , .	2.2	2
71	Simultaneous Sv and TS measurements on Young-of-the-Year (YOY) freshwater fish using three frequencies. <i>ICES Journal of Marine Science</i> , 2004, 61, 868-869.	2.5	1
72	Hydroacoustic surveys as contribution to the study of spawning aggregations of Nassau Grouper (<i>Epinephelus striatus</i>) in the Yucatan. , 2013, , .		1

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73	Aggregative and schooling behaviour of small pelagic fish schools through echo type characteristics. , 2013, , .		1
74	Interactions Between the Cross-Shore Structure of Small Pelagic Fish Population, Offshore Industrial Fisheries and Near Shore Artisanal Fisheries: A Mathematical Approach. Acta Biotheoretica, 2016, 64, 479-493.	1.5	1
75	Preliminary Study of Fish Assemblage Structure of the Marine Protected Area of Cayar in Senegal. Journal of Marine Biology & Oceanography, 2018, 07, .	0.1	1
76	An innovative sampling protocol for fish species identification methods in shallow waters: towed diver, towed video and stereoscopic camera system. , 2021, , .		1
77	Short-Range Movement Pattern of Amphidromous Lagoon Fish Schools: Ecological Applications. Water (Switzerland), 2022, 14, 1463.	2.7	1
78	Acoustic estimation of Pacific sardine biomass in the Gulf of California during the spring 2008-2012. , 2013, , .		0
79	Jumbo squid (<i>Dosidicus gigas</i>) in situ target strength measurements in northwest Mexico. , 2013, , .		0
80	Non-destructive optical holographic imaging of microorganisms in situ off the Senegalese coast. , 2014, , .		0
81	First trial of multi-wavelength vector sensor: Sediment geoacoustic properties obtained from vessel noise off Senegal. , 2015, , .		0
82	Acoustics characterization of micronekton spatial distribution in Indian Ocean using scientific surveys and integrated marine observing system database: Acoustics characterization of micronekton. , 2015, , .		0
83	Performance of a low cost single beam echosounder: In situ trials in a shallow water coral reef habitat with verification by video. , 2015, , .		0
84	CaractÃ©risation de la flore phytoplanctonique dans lâ€™Aire Marine ProtÃ©gÃ©e (AMP) de Bamboung et de deux sites environnants (SÃ©nÃ©gal). International Journal of Biological and Chemical Sciences, 2020, 14, 2452-2462.	0.2	0
85	Descriptors to characterize acoustic scattered layers: evidence of interest in three Atlantic African Large Marine Ecosystems. , 2021, , .		0
86	Effect of environmental parameters on acoustic characterisation of pelagic biocenoses in ultra-shallow (5-30 m) coastal areas. , 2021, , .		0