Francois Bastardie

List of Publications by Year in descending order

60 papers	2,698 citations	186265 28 h-index	189892 50 g-index
64 all docs	64 docs citations	64 times ranked	2812 citing authors

#	Article	IF	Citations
1	The footprint of bottom trawling in European waters: distribution, intensity, and seabed integrity. ICES Journal of Marine Science, 2017, 74, 847-865.	2.5	211
2	Bottom trawl fishing footprints on the worldâ€™s continental shelves. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10275-E10282.	7.1	189
3	Root Functional Architecture: A Framework for Modeling the Interplay between Roots and Soil. Vadose Zone Journal, 2007, 6, 269-281.	2.2	166
4	Estimating seabed pressure from demersal trawls, seines, and dredges based on gear design and dimensions. ICES Journal of Marine Science, 2016, 73, i27-i43.	2.5	158
5	VMStools: Open-source software for the processing, analysis and visualisation of fisheries logbook and VMS data. Fisheries Research, 2012, 115-116, 31-43.	1.7	149
6	X-ray tomographic and hydraulic characterization of burrowing by three earthworm species in repacked soil cores. Applied Soil Ecology, 2003, 24, 3-16.	4.3	130
7	Detailed mapping of fishing effort and landings by coupling fishing logbooks with satellite-recorded vessel geo-location. Fisheries Research, 2010, 106, 41-53.	1.7	118
8	Integrated ecologicalâ€“economic fisheries modelsâ€”Evaluation, review and challenges for implementation. Fish and Fisheries, 2018, 19, 1-29.	5.3	87
9	Sublethal effects of imidacloprid on the burrowing behaviour of two earthworm species: Modifications of the 3D burrow systems in artificial cores and consequences on gas diffusion in soil. Soil Biology and Biochemistry, 2006, 38, 285-293.	8.8	71
10	Towards a framework for the quantitative assessment of trawling impact on the seabed and benthic ecosystem. ICES Journal of Marine Science, 2016, 73, i127-i138.	2.5	70
11	Effects of fishing effort allocation scenarios on energy efficiency and profitability: An individual-based model applied to Danish fisheries. Fisheries Research, 2010, 106, 501-516.	1.7	69
12	Regional mÃ©tier definition: a comparative investigation of statistical methods using a workflow applied to international otter trawl fisheries in the North Sea. ICES Journal of Marine Science, 2012, 69, 331-342.	2.5	69
13	DISPLACE: a dynamic, individual-based model for spatial fishing planning and effort displacement â€” integrating underlying fish population models. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 366-386.	1.4	69
14	3D characterisation of earthworm burrow systems in natural soil cores collected from a 12-year-old pasture. Applied Soil Ecology, 2005, 30, 34-46.	4.3	62
15	Differences in biological traits composition of benthic assemblages between unimpacted habitats. Marine Environmental Research, 2017, 126, 1-13.	2.5	58
16	Challenges and opportunities for fleet- and mÃ©tier-based approaches for fisheries management under the European Common Fishery Policy. Ocean and Coastal Management, 2012, 70, 38-47.	4.4	57
17	Integration of fisheries into marine spatial planning: Quo vadis?. Estuarine, Coastal and Shelf Science, 2018, 201, 105-113.	2.1	56
18	Spatial planning for fisheries in the Northern Adriatic: working toward viable and sustainable fishing. Ecosphere, 2017, 8, e01696.	2.2	51

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19	Competition for marine space: modelling the Baltic Sea fisheries and effort displacement under spatial restrictions. ICES Journal of Marine Science, 2015, 72, 824-840.	2.5	42
20	A new simulation for modelling the topology of earthworm burrow systems and their effects on macropore flow in experimental soils. Biology and Fertility of Soils, 2002, 36, 161-169.	4.3	40
21	Integrating individual trip planning in energy efficiency â€“ Building decision tree models for Danish fisheries. Fisheries Research, 2013, 143, 119-130.	1.7	38
22	Classifying grey seal behaviour in relation to environmental variability and commercial fishing activity - a multivariate hidden Markov model. Scientific Reports, 2019, 9, 5642.	3.3	36
23	Effects of chronic bottom trawling on soft-seafloor macrofauna in the Kattegat. Marine Ecology - Progress Series, 2018, 586, 41-55.	1.9	36
24	Assessment of earthworm contribution to soil hydrology: a laboratory method to measure water diffusion through burrow walls. Biology and Fertility of Soils, 2005, 41, 124-128.	4.3	35
25	A radio-labelled study of earthworm behaviour in artificial soil cores in term of ecological types. Biology and Fertility of Soils, 2005, 41, 320-327.	4.3	34
26	Bottom trawling affects fish condition through changes in the ratio of prey availability to density of competitors. Journal of Applied Ecology, 2016, 53, 1500-1510.	4.0	32
27	Co-location of passive gear fisheries in offshore wind farms in the German EEZ of the North Sea: A first socio-economic scoping. Journal of Environmental Management, 2016, 183, 794-805.	7.8	31
28	Different bottom trawl fisheries have a differential impact on the status of the North Sea seafloor habitats. ICES Journal of Marine Science, 2020, 77, 1772-1786.	2.5	31
29	Predicting the populationâ€level impact of mitigating harbor porpoise bycatch with pingers and timeâ€area fishing closures. Ecosphere, 2017, 8, e01785.	2.2	30
30	The Baltic Sea Atlantis: An integrated end-to-end modelling framework evaluating ecosystem-wide effects of human-induced pressures. PLoS ONE, 2018, 13, e0199168.	2.5	30
31	The eastern Baltic cod fishery: a fleet-based management strategy evaluation framework to assess the cod recovery plan of 2008. ICES Journal of Marine Science, 2010, 67, 71-86.	2.5	29
32	Bridging the gap between commercial fisheries and survey data to model the spatiotemporal dynamics of marine species. Ecological Applications, 2021, 31, e02453.	3.8	27
33	A model-based evaluation of Marine Protected Areas: the example of eastern Baltic cod (Gadus morhua) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	26
34	Stock-based vs. fleet-based evaluation of the multi-annual management plan for the cod stocks in the Baltic Sea. Fisheries Research, 2010, 101, 188-202.	1.7	26
35	Stable isotopes reveal the effect of trawl fisheries on the diet of commercially exploited species. Scientific Reports, 2017, 7, 6334.	3.3	26
36	A Statistical Model for Estimation of Fish Density Including Correlation in Size, Space, Time and between Species from Research Survey Data. PLoS ONE, 2014, 9, e99151.	2.5	25

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37	Lost in translation? Multi-metric macrobenthos indicators and bottom trawling. Ecological Indicators, 2017, 82, 260-270.	6.3	23
38	A Review Characterizing 25 Ecosystem Challenges to Be Addressed by an Ecosystem Approach to Fisheries Management in Europe. Frontiers in Marine Science, 2021, 7, .	2.5	23
39	Using large benthic macrofauna to refine and improve ecological indicators of bottom trawling disturbance. Ecological Indicators, 2020, 110, 105811.	6.3	21
40	New policies may call for new approaches: the case of the Swedish Norway lobster (Nephrops) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	2.5	18
41	A correction to â€œEstimating seabed pressure from demersal trawls, seines and dredges based on gear design and dimensionsâ€â€. ICES Journal of Marine Science, 2016, 73, 2420-2423.	2.5	15
42	Reducing the Fuel Use Intensity of Fisheries: Through Efficient Fishing Techniques and Recovered Fish Stocks. Frontiers in Marine Science, 2022, 9, .	2.5	15
43	Do Norway pout (Trisopterus esmarkii) die from spawning stress? Mortality of Norway pout in relation to growth, sexual maturity, and density in the North Sea, Skagerrak, and Kattegat. ICES Journal of Marine Science, 2012, 69, 197-207.	2.5	14
44	Localisation of Nursery Areas Based on Comparative Analyses of the Horizontal and Vertical Distribution Patterns of Juvenile Baltic Cod (Gadus morhua). PLoS ONE, 2013, 8, e70668.	2.5	14
45	Reducing fisheries impacts on the seafloor: A bio-economic evaluation of policy strategies for improving sustainability in the Baltic Sea. Fisheries Research, 2020, 230, 105681.	1.7	14
46	Integrated ecosystem impacts of climate change and eutrophication on main Baltic fishery resources. Ecological Modelling, 2021, 453, 109609.	2.5	14
47	Effects of changes in stock productivity and mixing on sustainable fishing and economic viability. ICES Journal of Marine Science, 2017, 74, 535-551.	2.5	12
48	Individual transferable quotas, does one size fit all? Sustainability analysis of an alternative model for quota allocation in a small-scale coastal fishery. Marine Policy, 2018, 88, 23-31.	3.2	11
49	Sustainability Impact Assessment (SIA) in fisheries: Implementation in EU fishing regions. Marine Policy, 2019, 101, 63-79.	3.2	11
50	Mesoscale productivity fronts and local fishing opportunities in the European Seas. Fish and Fisheries, 2021, 22, 1227.	5.3	11
51	Studying boundary effects on animal movement in heterogeneous landscapes: the case of Abax ater (Coleoptera: Carabidae) in hedgerow network landscapes. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2001, 324, 1029-1035.	0.8	10
52	Impact of deep-sea fishery for Greenland halibut (Reinhardtius hippoglossoides) on non-commercial fish species off West Greenland. ICES Journal of Marine Science, 2014, 71, 845-852.	2.5	10
53	Potential for Mesopelagic Fishery Compared to Economy and Fisheries Dynamics in Current Large Scale Danish Pelagic Fishery. Frontiers in Marine Science, 2021, 8, .	2.5	10
54	Fishery spatial plans and effort displacement in the eastern Ionian Sea: A bioeconomic modelling. Ocean and Coastal Management, 2021, 203, 105456.	4.4	9

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55	Impact assessment of a fisheries closure with effort and landings spatial analyses: A case study in the Western Baltic Sea. Fisheries Research, 2014, 157, 170-179.	1.7	8
56	Reverse the declining course: A risk assessment for marine and fisheries policy strategies in Europe from current knowledge synthesis. Marine Policy, 2021, 126, 104409.	3.2	7
57	Opening of the Norway pout box: will it change the ecological impacts of the North Sea Norway pout fishery?. ICES Journal of Marine Science, 2019, 76, 136-152.	2.5	6
58	Burrowing behaviour of radio-labelled earthworms revealed by analysis of 3D-trajectories in artificial soil cores. Pedobiologia, 2003, 47, 554-559.	1.2	3
59	The value of commercial fish size distribution recorded at haul by haul compared to trip by trip. ICES Journal of Marine Science, 2020, 77, 2729-2740.	2.5	3
60	Evaluating Biological Robustness of Innovative Management Alternatives. , 2009, , 119-142.		0