Ignacio A CatalÃ¡n

List of Publications by Year
in descending order

64 papers	1,485 citations	279487 23 h-index	360668 35 g-index
67 all docs	67 docs citations	67 times ranked	2073 citing authors

#	Article	IF	Citations
1	Life cycle ecophysiology of small pelagic fish and climate-driven changes in populations. Progress in Oceanography, 2013, 116, 220-245.	1.5	112
2	Reproductive resilience: a paradigm shift in understanding spawnerâ€recruit systems in exploited marine fish. Fish and Fisheries, 2017, 18, 285-312.	2.7	104
3	Coastal observatories for monitoring of fish behaviour and their responses to environmental changes. Reviews in Fish Biology and Fisheries, 2015, 25, 463-483.	2.4	59
4	Image-based, unsupervised estimation of fish size from commercial landings using deep learning. ICES Journal of Marine Science, 2020, 77, 1330-1339.	1.2	51
5	Small pelagic fish in the new millennium: A bottom-up view of global research effort. Progress in Oceanography, 2021, 191, 102494.	1.5	49
6	Trophic ecology of Atlantic bluefin tuna Thunnus thynnus larvae. Journal of Fish Biology, 2011, 78, 1545-1560.	0.7	47
7	Selective exploitation of spatially structured coastal fish populations by recreational anglers may lead to evolutionary downsizing of adults. Marine Ecology - Progress Series, 2014, 503, 219-233.	0.9	44
8	From egg production to recruits: Connectivity and inter-annual variability in the recruitment patterns of European anchovy in the northwestern Mediterranean. Progress in Oceanography, 2015, 138, 431-447.	1.5	43
9	Spatial and temporal distribution of the early life stages of three commercial fish species in the northeastern shelf of the Gulf of CÃ¡diz. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1391-1401.	0.6	42
10	Spatial and temporal changes of coastal demersal assemblages in the Gulf of Cadiz (SW Spain) in relation to environmental conditions. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1402-1419.	0.6	39
11	Early stages of Sardina pilchardus and environmental anomalies in the Northwestern Mediterranean. Estuarine, Coastal and Shelf Science, 2003, 56, 609-619.	0.9	37
12	Recruiting at the Edge: Kinetic Energy Inhibits Anchovy Populations in the Western Mediterranean. PLoS ONE, 2013, 8, e55523.	1.1	35
13	Ontogenetic changes in the retinal topography of the European hake, Merluccius merluccius : implications for feeding and depth distribution. Marine Biology, 2002, 141, 549-559.	0.7	34
14	Otolith fluctuating asymmetry: a misconception of its biological relevance?. ICES Journal of Marine Science, 2015, 72, 2079-2089.	1.2	33
15	Drivers of larval fish assemblage shift during the spring-summer transition in the coastal Mediterranean. Estuarine, Coastal and Shelf Science, 2012, 97, 127-135.	0.9	32
16	Growth and feeding patterns of European anchovy (Engraulis encrasicolus) early life stages in the Aegean Sea (NE Mediterranean). Estuarine, Coastal and Shelf Science, 2010, 86, 299-312.	0.9	31
17	Modelâ€based assessment of localâ€scale fish larval connectivity in a network of marine protected areas. Fisheries Oceanography, 2012, 21, 291-306.	0.9	31
18	Oceanographic drivers and mistiming processes shape breeding success in a seabird. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152287.	1.2	31

#	Article	IF	Citations
19	Critically examining the knowledge base required to mechanistically project climate impacts: A case study of Europe's fish and shellfish. Fish and Fisheries, 2019, 20, 501-517.	2.7	30
20	Larval fish distribution in two different hydrographic situations in the Gulf of CÃ¡diz. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1377-1390.	0.6	29
21	Anthropogenic chemical cues can alter the swimming behaviour of juvenile stages of a temperate fish. Marine Environmental Research, 2017, 125, 34-41.	1.1	29
22	MPA network design based on graph theory and emergent properties of larval dispersal. Marine Ecology - Progress Series, 2020, 650, 309-326.	0.9	29
23	Diet of larval albacore Thunnus alalunga (Bonnaterre, 1788) off Mallorca Island (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.3	29
24	Link between environmental anomalies, growth and condition of pilchard Sardina pilchardus larvae in the northwestern Mediterranean. Marine Ecology - Progress Series, 2006, 307, 219-231.	0.9	27
25	Ocean acidification increases fatty acids levels of larval fish. Biology Letters, 2015, 11, 20150331.	1.0	25
26	Potential fishing-related effects on fish life history revealed by otolith microchemistry. Fisheries Research, 2018, 199, 186-195.	0.9	23
27	Preparing for the future: integrating spatial ecology into ecosystem-based management. ICES Journal of Marine Science, 2019, 76, 467-476.	1.2	23
28	Modeling Fish Egg Production and Spatial Distribution from Acoustic Data: A Step Forward into the Analysis of Recruitment. PLoS ONE, 2013, 8, e73687.	1.1	22
29	Adapting to the wild: the case of aquacultureâ€produced and released meagres Argyrosomus regius. Journal of Fish Biology, 2014, 84, 10-30.	0.7	22
30	Atmospheric-induced variability of hydrological and biogeochemical signatures in the NW Alboran Sea. Consequences for the spawning and nursery habitats of European anchovy. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 1175-1188.	0.6	21
31	Automatic, operational, high-resolution monitoring of fish length and catch numbers from landings using deep learning. Fisheries Research, 2022, 246, 106166.	0.9	21
32	Stay off the motorway: Resolving the pre-recruitment life history dynamics of the European anchovy in the SW Mediterranean through a spatially-explicit individual-based model (SEIBM). Progress in Oceanography, 2013, 111, 140-153.	1.5	20
33	Consequences of a future climatic scenario for the anchovy fishery in the Alboran Sea (SW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.9	20
34	A Global Review on the Biology of the Dolphinfish (Coryphaena hippurus) and Its Fishery in the Mediterranean Sea: Advances in the Last Two Decades. Reviews in Fisheries Science and Aquaculture, 2020, 28, 376-420.	5.1	20
35	Response of muscle-based biochemical condition indices to short-term variations in food availability in post-flexion reared sea bass Dicentrarchus labrax (L.) larvae. Journal of Fish Biology, 2007, 70, 391-405.	0.7	19
36	A closed water recirculation system for ecological studies in marine fish larvae: growth and survival of sea bass larvae fed with live prey. Aquatic Living Resources, 2000, 13, 29-35.	0.5	14

#	Article	IF	Citations
37	Environmental influences on zooplankton and micronekton distribution in the Bransfield Strait and adjacent waters. Polar Biology, 2008, 31, 691-707.	0.5	14
38	An evaluation of sampling methodology for assessing settlement of temperate fish in seagrass meadows. Mediterranean Marine Science, 2014, 15, 338.	0.6	14
39	Dynamic regulation of larval fish selfâ€recruitment in a marine protected area. Fisheries Oceanography, 2013, 22, 477-495.	0.9	13
40	Using stereoscopic video cameras to evaluate seagrass meadows nursery function in the Mediterranean. Marine Biology, 2017, 164, 1.	0.7	13
41	Quantification of muscle condition using digital image analysis in Dicentrarchus labrax larvae, and relationship with survival. Journal of the Marine Biological Association of the United Kingdom, 2002, 82, 649-654.	0.4	11
42	Seasonal differences in muscle fibre recruitment of pilchard larvae in the north-western Mediterranean. Journal of Fish Biology, 2004, 64, 1605-1615.	0.7	10
43	The effect of temperature gradients and stomach fullness on the vertical distribution of larval herring in experimental columns. Journal of Experimental Marine Biology and Ecology, 2011, 404, 26-32.	0.7	10
44	Effect of food deprivation on distribution of larval and early juvenile cod in experimental vertical temperature and light gradients. Marine Ecology - Progress Series, 2013, 475, 191-201.	0.9	10
45	Behavioural response to detection of chemical stimuli of predation, feeding and schooling in a temperate juvenile fish. Journal of Experimental Marine Biology and Ecology, 2017, 486, 140-147.	0.7	10
46	Future Socio-political Scenarios for Aquatic Resources in Europe: An Operationalized Framework for Marine Fisheries Projections. Frontiers in Marine Science, 2021, 8, .	1.2	10
47	Estimating the density of resident coastal fish using underwater cameras: accounting for individual detectability. Marine Ecology - Progress Series, 2019, 615, 177-188.	0.9	10
48	Interaction between spawning habitat and coastally steered circulation regulate larval fish retention in a large shallow temperate bay. Estuarine, Coastal and Shelf Science, 2015, 167, 377-389.	0.9	9
49	The role of ocean velocity in chlorophyll variability. A modelling study in the Alboran Sea. Scientia Marina, 2016, 80, 249-256.	0.3	8
50	Assessment of the Skill of Coupled Physicalâ€“Biogeochemical Models in the NW Mediterranean. Frontiers in Marine Science, 2020, 7, .	1.2	7
51	Research on early life stages of fish: a lively field. Marine Ecology - Progress Series, 2020, 650, 1-5.	0.9	7
52	Crecimiento del otolito en larvas de lubina europea (<i>Dicentrarchus labrax, L.</i>) bajo rÃ©gimen de alimentaciÃ³n constante o variable. Scientia Marina, 2009, 73, .	0.3	7
53	European hake (Merluccius merluccius) stock structure in the Mediterranean as assessed by otolith shape and microchemistry. Fisheries Research, 2022, 254, 106419.	0.9	7
54	Differences in growth and survival between cod Gadus morhua and herring Clupea harengus early stages coâ€reared at variable prey concentrations. Journal of Fish Biology, 2015, 87, 1176-1190.	0.7	6

#	Article	IF	Citations
55	Larval fish assemblage structure in the surface layer of the northwestern Mediterranean under contrasting oceanographic scenarios. Journal of Plankton Research, 2015, 37, 834-850.	0.8	6
56	Future distribution of early life stages of small pelagic fishes in the northwestern Mediterranean. Climatic Change, 2020, 161, 567-589.	1.7	5
57	Changes in the juvenile fish assemblage of a Mediterranean shallow Posidonia oceanica seagrass nursery area after half century. Mediterranean Marine Science, 2019, 20, 603.	0.6	5
58	Projected effects of ocean warming on an iconic pelagic fish and its fishery. Scientific Reports, 2021, 11, 8803.	1.6	4
59	Reproductive output traits of the simultaneous hermaphrodite <I>Serranus scriba</I> in the western Mediterranean. Scientia Marina, 2013, 77, 331-340.	0.3	4
60	Predator Avoidance in the European Seabass After Recovery From Short-Term Hypoxia and Different CO2 Conditions. Frontiers in Marine Science, 2018, 5, .	1.2	3
61	Reversible morphological changes in a juvenile marine fish after exposure to predatory alarm cues. Royal Society Open Science, 2020, 7, 191945.	1.1	3
62	Using self organizing maps to analyze larval fish assemblage vertical dynamics through environmental-ontogenetic gradients. Estuarine, Coastal and Shelf Science, 2021, 258, 107410.	0.9	1
63	Embedding the effect of environmental conditions on recruitment and survival of the European anchovy (Engraulis encrasicolus): a Bayesian model with dual-time resolution. Fishery Bulletin, 2018, 116, 34-49.	0.1	1
64	The Atlanticâ€“Mediterranean ecological connection: a study on decapod larval communities. Mediterranean Marine Science, 0, , .	0.6	0