

# Guillem Chust

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

4,140  
citations

94433

37  
h-index

123424

61  
g-index

85  
all docs

85  
docs citations

85  
times ranked

6552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecosystem-based marine spatial management: Review of concepts, policies, tools, and critical issues. <i>Ocean and Coastal Management</i> , 2011, 54, 807-820.	4.4	327
2	Estimating turbidity and total suspended matter in the Adour River plume (South Bay of Biscay) using MODIS 250-m imagery. <i>Continental Shelf Research</i> , 2010, 30, 379-392.	1.8	204
3	A Dark Hole in Our Understanding of Marine Ecosystems and Their Services: Perspectives from the Mesopelagic Community. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	180
4	Biomass changes and trophic amplification of plankton in a warmer ocean. <i>Global Change Biology</i> , 2014, 20, 2124-2139.	9.5	176
5	The North Atlantic Ocean as habitat for <i>Calanus finmarchicus</i> : Environmental factors and life history traits. <i>Progress in Oceanography</i> , 2014, 129, 244-284.	3.2	163
6	Coastal and estuarine habitat mapping, using LIDAR height and intensity and multi-spectral imagery. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 633-643.	2.1	148
7	Global habitat preferences of commercially valuable tuna. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 102-112.	1.4	113
8	Large-scale ocean connectivity and planktonic body size. <i>Nature Communications</i> , 2018, 9, 142.	12.8	102
9	Predicting suitable habitat for the European lobster ( <i>Homarus gammarus</i> ), on the Basque continental shelf (Bay of Biscay), using Ecological-Niche Factor Analysis. <i>Ecological Modelling</i> , 2009, 220, 556-567.	2.5	100
10	Using ecological models to assess ecosystem status in support of the European Marine Strategy Framework Directive. <i>Ecological Indicators</i> , 2015, 58, 175-191.	6.3	97
11	Restoring fish ecological quality in estuaries: Implication of interactive and cumulative effects among anthropogenic stressors. <i>Science of the Total Environment</i> , 2016, 542, 383-393.	8.0	97
12	Latitudinal phytoplankton distribution and the neutral theory of biodiversity. <i>Global Ecology and Biogeography</i> , 2013, 22, 531-543.	5.8	93
13	Projecting future distribution of the seagrass <i>Zostera noltii</i> under global warming and sea level rise. <i>Biological Conservation</i> , 2014, 170, 74-85.	4.1	92
14	Large-scale distribution of tuna species in a warming ocean. <i>Global Change Biology</i> , 2019, 25, 2043-2060.	9.5	92
15	Are <i>Calanus</i> spp. shifting poleward in the North Atlantic? A habitat modelling approach. <i>ICES Journal of Marine Science</i> , 2014, 71, 241-253.	2.5	83
16	Determinants and spatial modeling of tree diversity in a tropical forest landscape in Panama. <i>Journal of Vegetation Science</i> , 2006, 17, 83-92.	2.2	80
17	Capabilities of the bathymetric Hawk Eye LiDAR for coastal habitat mapping: A case study within a Basque estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 89, 200-213.	2.1	80
18	Climate oscillations reflected within the microbiome of Arabian Sea sediments. <i>Scientific Reports</i> , 2017, 7, 6040.	3.3	74

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19	Low-salinity plumes in the oceanic region of the Basque Country. <i>Continental Shelf Research</i> , 2009, 29, 970-984.	1.8	73
20	The multi-angle view of MISR detects oil slicks under sun glitter conditions. <i>Remote Sensing of Environment</i> , 2007, 107, 232-239.	11.0	71
21	Morphological characteristics of the Basque continental shelf (Bay of Biscay, northern Spain); their implications for Integrated Coastal Zone Management. <i>Geomorphology</i> , 2010, 118, 314-329.	2.6	71
22	Projecting present and future habitat suitability of ship-mediated aquatic invasive species in the Canadian Arctic. <i>Biological Invasions</i> , 2018, 20, 501-517.	2.4	66
23	Monitoring spatio-temporal variability of the Adour River turbid plume (Bay of Biscay, France) with MODIS 250-m imagery. <i>Continental Shelf Research</i> , 2014, 74, 35-49.	1.8	64
24	Response of Soil Fauna to Landscape Heterogeneity: Determining Optimal Scales for Biodiversity Modeling. <i>Conservation Biology</i> , 2003, 17, 1712-1723.	4.7	60
25	Changing fish distributions challenge the effective management of European fisheries. <i>Ecography</i> , 2020, 43, 494-505.	4.5	58
26	Scale dependency of insect assemblages in response to landscape pattern. <i>Landscape Ecology</i> , 2004, 19, 41-57.	4.2	53
27	Modelling suitable estuarine habitats for <i>Zostera noltii</i> , using Ecological Niche Factor Analysis and Bathymetric LiDAR. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 94, 144-154.	2.1	52
28	Thermal Niche Tracking and Future Distribution of Atlantic Mackerel Spawning in Response to Ocean Warming. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	50
29	“The past is the future of the present”™: Learning from long-time series of marine monitoring. <i>Science of the Total Environment</i> , 2016, 566-567, 698-711.	8.0	50
30	Modelling the future biogeography of North Atlantic zooplankton communities in response to climate change. <i>Marine Ecology - Progress Series</i> , 2015, 531, 121-142.	1.9	48
31	Water quality assessment using satellite-derived chlorophyll-a within the European directives, in the southeastern Bay of Biscay. <i>Marine Pollution Bulletin</i> , 2012, 64, 739-750.	5.0	47
32	Human impacts overwhelm the effects of sea-level rise on Basque coastal habitats (N Spain) between 1954 and 2004. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 84, 453-462.	2.1	46
33	Dispersal similarly shapes both population genetics and community patterns in the marine realm. <i>Scientific Reports</i> , 2016, 6, 28730.	3.3	45
34	Regional scenarios of sea level rise and impacts on Basque (Bay of Biscay) coastal habitats, throughout the 21st century. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 87, 113-124.	2.1	44
35	A Marine Spatial Planning Approach to Select Suitable Areas for Installing Wave Energy Converters (WECs), on the Basque Continental Shelf (Bay of Biscay). <i>Coastal Management</i> , 2012, 40, 1-19.	2.0	43
36	Forever young: The successful story of a marine biotic index. <i>Advances in Marine Biology</i> , 2019, 82, 93-127.	1.4	43

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37	Living under stressful conditions: Fish life history strategies across environmental gradients in estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 188, 18-26.	2.1	42
38	Land cover discrimination potential of radar multitemporal series and optical multispectral images in a Mediterranean cultural landscape. <i>International Journal of Remote Sensing</i> , 2004, 25, 3513-3528.	2.9	40
39	Climate change impacts on coastal and pelagic environments in the southeastern Bay of Biscay. <i>Climate Research</i> , 2011, 48, 307-332.	1.1	37
40	Land cover mapping with patch-derived landscape indices. <i>Landscape and Urban Planning</i> , 2004, 69, 437-449.	7.5	36
41	Comparing the performance of species distribution models of <i>Zostera marina</i> : Implications for conservation. <i>Journal of Sea Research</i> , 2013, 83, 56-64.	1.6	35
42	Functional redundancy and sensitivity of fish assemblages in European rivers, lakes and estuarine ecosystems. <i>Scientific Reports</i> , 2017, 7, 17611.	3.3	35
43	Identification of landscape units from an insect perspective. <i>Ecography</i> , 2003, 26, 257-268.	4.5	34
44	Uses of Innovative Modeling Tools within the Implementation of the Marine Strategy Framework Directive. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	32
45	Present and Future Potential Habitat Distribution of <i>Carcharhinus falciformis</i> and <i>Canthidermis maculata</i> By-Catch Species in the Tropical Tuna Purse-Seine Fishery under Climate Change. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	31
46	Connectivity, neutral theories and the assessment of species vulnerability to global change in temperate estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 131, 52-63.	2.1	28
47	The contribution of migratory mesopelagic fishes to neuston fish assemblages across the Atlantic, Indian and Pacific Oceans. <i>Marine and Freshwater Research</i> , 2016, 67, 1114.	1.3	28
48	Historical trends and future distribution of anchovy spawning in the Bay of Biscay. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 159, 169-182.	1.4	26
49	Mapping estuarine habitats using airborne hyperspectral imagery, with special focus on seagrass meadows. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 164, 433-442.	2.1	25
50	Floristic patterns and plant traits of Mediterranean communities in fragmented habitats. <i>Journal of Biogeography</i> , 2006, 33, 1235-1245.	3.0	24
51	Long-term decline of the canopy-forming algae <i>Gelidium corneum</i> , associated to extreme wave events and reduced sunlight hours, in the southeastern Bay of Biscay. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 205, 152-160.	2.1	22
52	Modelling species presence-absence in the ecological niche theory framework using shape-constrained generalized additive models. <i>Ecological Modelling</i> , 2020, 418, 108926.	2.5	21
53	Factors determining the distribution and beta diversity of mesozooplankton species in shelf and coastal waters of the Bay of Biscay. <i>Journal of Plankton Research</i> , 2011, 33, 1182-1192.	1.8	20
54	Identifying main interactions in marine predator-prey networks of the Bay of Biscay. <i>ICES Journal of Marine Science</i> , 2019, 76, 2247-2259.	2.5	20

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55	Climate regime shifts and biodiversity redistribution in the Bay of Biscay. <i>Science of the Total Environment</i> , 2022, 803, 149622.	8.0	20
56	Effect of sea level extremes on the western Basque coast during the 21st century. <i>Climate Research</i> , 2012, 51, 237-248.	1.1	20
57	Biodiversity in the by-catch communities of the pelagic ecosystem in the Western Indian Ocean. <i>Biodiversity and Conservation</i> , 2015, 24, 2647-2671.	2.6	19
58	Panâ€­regional marine benthic cryptobiome biodiversity patterns revealed by metabarcoding Autonomous Reef Monitoring Structures. <i>Molecular Ecology</i> , 2020, 29, 4882-4897.	3.9	19
59	Spatial modelling of spider biodiversity: matters of scale. <i>Biodiversity and Conservation</i> , 2009, 18, 1945-1962.	2.6	18
60	Increasing the chance of a successful restoration of <i>Zostera noltii</i> meadows. <i>Aquatic Botany</i> , 2015, 127, 12-19.	1.6	17
61	Gall wasps and their parasitoids in cork oak fragmented forests. <i>Ecological Entomology</i> , 2007, 32, 82-91.	2.2	16
62	Setting the maximum ecological potential of benthic communities, to assess ecological status, in heavily morphologically-modified estuarine water bodies. <i>Marine Pollution Bulletin</i> , 2013, 71, 199-208.	5.0	15
63	What drove tuna catches between 1525 and 1756 in southern Europe?. <i>ICES Journal of Marine Science</i> , 2009, 66, 1595-1604.	2.5	14
64	Probabilistic correction of RCM precipitation in the Basque Country (Northern Spain). <i>Theoretical and Applied Climatology</i> , 2014, 117, 317-329.	2.8	14
65	Earlier migration and distribution changes of albacore in the Northeast Atlantic. <i>Fisheries Oceanography</i> , 2019, 28, 505-516.	1.7	14
66	Response of copepod communities to ocean warming in three time-series across the North Atlantic and Mediterranean Sea. <i>Marine Ecology - Progress Series</i> , 2020, 636, 47-61.	1.9	14
67	Effect of trampling and digging from shellfishing on &lt;em>Zostera noltei&/em> (Zosteraceae) intertidal seagrass beds. <i>Scientia Marina</i> , 2017, 81, 121.	0.6	14
68	Characterizing human-modelled landscapes at a stationary state: a case study of Minorca, Spain. <i>Environmental Conservation</i> , 1999, 26, 322-331.	1.3	13
69	Are shifts in species distribution triggered by climate change? A swordfish case study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 175, 104666.	1.4	12
70	Mare Incognitum: A Glimpse into Future Plankton Diversity and Ecology Research. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	10
71	Estimation of chlorophyll-a concentration in waters over the continental shelf of the Bay of Biscay: a comparison of remote sensing algorithms. <i>International Journal of Remote Sensing</i> , 2011, 32, 8349-8371.	2.9	9
72	Water quality monitoring in Basque coastal areas using local chlorophyll- $a$ algorithm and MERIS images. <i>Journal of Applied Remote Sensing</i> , 2012, 6, 063519.	1.3	7

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73	Estimated footprint of shellfishing activities in <i>Zostera noltei</i> meadows in a northern Spain estuary: Lessons for management. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 254, 107320.	2.1	7
74	Determinants and spatial modeling of tree $\hat{\alpha}^2$ -diversity in a tropical forest landscape in Panama. <i>Journal of Vegetation Science</i> , 2006, 17, 83.	2.2	7
75	Alternative model for precipitation probability $\hat{\alpha}$ distribution: application to Spain. <i>Climate Research</i> , 2012, 51, 23-33.	1.1	6
76	Threshold responses in bird mortality driven by extreme wind events. <i>Ecological Indicators</i> , 2019, 99, 183-192.	6.3	6
77	Impact of climate change on beach erosion in the Basque Coast (NE Spain). <i>Coastal Engineering</i> , 2021, 167, 103916.	4.0	6
78	The Role of Climate, Oceanography, and Prey in Driving Decadal Spatio-Temporal Patterns of a Highly Mobile Top Predator. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	6
79	Error propagation and scaling for tropical forest biomass estimates. , 2005, , 155-164.		5
80	HyDiaD: A hybrid species distribution model combining dispersal, multi-habitat suitability, and population dynamics for diadromous species under climate change scenarios. <i>Ecological Modelling</i> , 2022, 470, 109997.	2.5	5
81	Niche segregation mechanisms in marine apex predators inhabiting dynamic environments. <i>Diversity and Distributions</i> , 2021, 27, 799-815.	4.1	3
82	<title>Capabilities of ERS sensors for Mediterranean vegetation detection using multitemporal data</title>. , 2000, , .		1
83	Biogeography of key mesozooplankton species in the North Atlantic and egg production of <i>Calanus finmarchicus</i> . <i>Earth System Science Data</i> , 2015, 7, 223-230.	9.9	1
84	Spatiotemporal analysis for characterizing the landscape of the biosphere reserve of Menorca, Spain, using remote sensing data. , 1998, , .		0