Carles Ibanez

List of Publications by Year in descending order

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100 papers	3,259 citations	159525 30 h-index	175177 52 g-index
106 all docs	106 docs citations	106 times ranked	4157 citing authors

#	Article	IF	Citations
1	Impacts of Sea-Level Rise on Deltas in the Gulf of Mexico and the Mediterranean: The Importance of Pulsing Events to Sustainability. Estuaries and Coasts, 1995, 18, 636.	1.7	212
2	Harvesting the microalgae Phaeodactylum tricornutum with polyaluminum chloride, aluminium sulphate, chitosan and alkalinity-induced flocculation. Journal of Applied Phycology, 2012, 24, 1067-1080.	1.5	169
3	Changes in the hydrology and sediment transport produced by large dams on the lower Ebro river and its estuary. River Research and Applications, 1996, 12, 51-62.	1.1	147
4	Flow Regime and Nutrient-Loading Trends from the Largest South European Watersheds: Implications for the Productivity of Mediterranean and Black Seaâ€™s Coastal Areas. Water (Switzerland), 2019, 11, 1.	1.2	130
5	Characterization of the Ebre and Rhone estuaries: A basis for defining and classifying saltâ€wedge estuaries. Limnology and Oceanography, 1997, 42, 89-101.	1.6	115
6	Procambarus clarkii as a bioindicator of heavy metal pollution sources in the lower Ebro River and Delta. Ecotoxicology and Environmental Safety, 2010, 73, 280-286.	2.9	114
7	Biogas production from sewage sludge and microalgae co-digestion under mesophilic and thermophilic conditions. Renewable Energy, 2015, 75, 374-380.	4.3	88
8	Response scenarios for the deltaic plain of the RhÃ´ne in the face of an acceleration in the rate of sea-level rise with special attention toSalicornia-type environments. Estuaries and Coasts, 2002, 25, 337-358.	1.7	85
9	Morphologic development, relative sea level rise and sustainable management of water and sediment in the Ebre Delta, Spain. Journal of Coastal Conservation, 1997, 3, 191-202.	0.7	82
10	Sustainability of Mediterranean Deltaic and Lagoon Wetlands with Sea-Level Rise: The Importance of River Input. Estuaries and Coasts, 2011, 34, 483-493.	1.0	82
11	The response of deltas to sea-level rise: Natural mechanisms and management options to adapt to high-end scenarios. Ecological Engineering, 2014, 65, 122-130.	1.6	75
12	Global-change effects on early-stage decomposition processes in tidal wetlands â€“ implications from a global survey using standardized litter. Biogeosciences, 2018, 15, 3189-3202.	1.3	73
13	Regime shift from phytoplankton to macrophyte dominance in a large river: Top-down versus bottom-up effects. Science of the Total Environment, 2012, 416, 314-322.	3.9	71
14	Net primary production and decomposition of salt marshes of the Ebre delta (Catalonia, Spain). Estuaries and Coasts, 2002, 25, 309-324.	1.7	69
15	Sediment management options for the lower Ebro River and its delta. Journal of Soils and Sediments, 2007, 7, 285-295.	1.5	66
16	Ecology in Times of Scarcity. BioScience, 2009, 59, 321-331.	2.2	66
17	The environmental impact of the Spanish national hydrological plan on the lower Ebro river and delta. International Journal of Water Resources Development, 2003, 19, 485-500.	1.2	63
18	Changing nutrients, changing rivers. Science, 2019, 365, 637-638.	6.0	58

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19	Vertical Accretion and Relative Sea Level Rise in the Ebro Delta Wetlands (Catalonia, Spain). Wetlands, 2010, 30, 979-988.	0.7	56
20	Influence on Birds of Rice Field Management Practices during the Growing Season: A Review and an Experiment. Waterbirds, 2010, 33, 167.	0.2	50
21	Rapid Degradation of Propanil in Rice Crop Fields. Environmental Science & Technology, 1998, 32, 3479-3484.	4.6	49
22	Patterns of metal bioaccumulation in two filter-feeding macroinvertebrates: Exposure distribution, inter-species differences and variability across developmental stages. Science of the Total Environment, 2010, 408, 2795-2806.	3.9	49
23	Habitat use by a large population of Pinna nobilis in shallow waters. Scientia Marina, 2014, 78, 555-565.	0.3	43
24	River basin management and delta sustainability: A commentary on the Ebro Delta and the Spanish National Hydrological Plan. Ecological Engineering, 2006, 26, 85-99.	1.6	42
25	Sea level rise impacts on rice production: The Ebro Delta as an example. Science of the Total Environment, 2016, 571, 1200-1210.	3.9	40
26	Changes in dissolved nutrients in the lower Ebro river: Causes and consequences. , 2008, 27, 131-142.		37
27	The use of diatom assemblages as ecological indicators in highly stratified estuaries and evaluation of existing diatom indices. Marine Pollution Bulletin, 2012, 64, 500-511.	2.3	35
28	Genetic and Physiological Diversity in the Diatom Nitzschia inconspicua. Journal of Eukaryotic Microbiology, 2015, 62, 815-832.	0.8	35
29	Environmental filtering determines metacommunity structure in wetland microcrustaceans. Oecologia, 2016, 181, 193-205.	0.9	34
30	Effects of flow regulation on the establishment of alien fish species: A community structure approach to biological validation of environmental flows. Ecological Indicators, 2014, 45, 598-604.	2.6	33
31	NET PRIMARY PRODUCTIVITY AS AN INDICATOR OF SUSTAINABILITY IN THE EBRO AND MISSISSIPPI DELTAS. , 2002, 12, 1044-1055.		32
32	Monitoring the effects of floods on submerged macrophytes in a large river. Science of the Total Environment, 2012, 440, 132-139.	3.9	32
33	Suspended sediment load at the lowermost Ebro River (Catalonia, Spain). Quaternary International, 2015, 388, 188-198.	0.7	30
34	Holocene palaeoenvironmental evolution of the Ebro Delta (Western Mediterranean Sea): Evidence for an early construction based on the benthic foraminiferal record. Holocene, 2016, 26, 1438-1456.	0.9	28
35	Bioaccumulation of pollutants in the zebra mussel from hazardous industrial waste and evaluation of spatial distribution using GAMs. Science of the Total Environment, 2011, 409, 898-904.	3.9	27
36	The effects of hydrological dynamics on benthic diatom community structure in a highly stratified estuary: The case of the Ebro Estuary (Catalonia, Spain). Estuarine, Coastal and Shelf Science, 2012, 101, 1-14.	0.9	27

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37	Influence of salinity regime on the food-web structure and feeding ecology of fish species from Mediterranean coastal lagoons. Estuarine, Coastal and Shelf Science, 2014, 139, 1-10.	0.9	26
38	Impacts of sea-level rise on the Ebro Delta: a first approach. Ocean and Coastal Management, 1996, 30, 197-216.	2.0	24
39	Fluvial response to climate variations and anthropogenic perturbations for the Ebro River, Spain in the last 4000 years. Science of the Total Environment, 2014, 473-474, 20-31.	3.9	24
40	The role of rice fields and constructed wetlands as a source and a sink of pesticides and contaminants of emerging concern: Full-scale evaluation. Ecological Engineering, 2020, 156, 105971.	1.6	24
41	Life history and production of the burrowing mayflyEphoron virgo(Olivier, 1791) (Ephemeroptera: Polymitarcyidae) in the lower Ebro river: a comparison after 18 years. Aquatic Insects, 2008, 30, 163-178.	0.6	23
42	Spatio-Temporal Patterns of Submerged Macrophytes in Three Hydrologically Altered Mediterranean Coastal Lagoons. Estuaries and Coasts, 2013, 36, 414-429.	1.0	23
43	Basin-scale land use impacts on world deltas: Human vs natural forcings. Global and Planetary Change, 2019, 173, 24-32.	1.6	22
44	Morphologic development, relative sea level rise and sustainable management of water and sediment in the Ebre Delta, Spain. Journal of Coastal Conservation, 1997, 3, 191-202.	0.7	21
45	Ecotoxicological effects of rice field waters on selected planktonic species: comparison between conventional and organic farming. Ecotoxicology, 2010, 19, 1523-1535.	1.1	21
46	The global sustainability transition: it is more than changing light bulbs. Sustainability: Science, Practice, and Policy, 2013, 9, 4-15.	1.1	21
47	Benthic foraminifera as indicators of habitat in a Mediterranean delta: implications for ecological and palaeoenvironmental studies. Estuarine, Coastal and Shelf Science, 2016, 180, 97-113.	0.9	21
48	Spatial and temporal dynamics of suspended load at-a-cross-section: The lowermost Ebro River (Catalonia, Spain). Water Research, 2012, 46, 3671-3681.	5.3	20
49	Sediment imbalances and flooding risk in European deltas and estuaries. Journal of Soils and Sediments, 2014, 14, 1493-1512.	1.5	20
50	Modelling Habitat Distribution of Mediterranean Coastal Wetlands: The Ebro Delta as Case Study. Wetlands, 2014, 34, 775-785.	0.7	18
51	The impact of two large floods (1993â€“1994) on sediment deposition in the RhÃ´ne delta: Implications for sustainable management. Science of the Total Environment, 2017, 609, 251-262.	3.9	18
52	Linking fish-based biological indicators with hydrological dynamics in a Mediterranean river: Relevance for environmental flow regimes. Ecological Indicators, 2018, 95, 492-501.	2.6	18
53	The main drivers of methane emissions differ in the growing and flooded fallow seasons in Mediterranean rice fields. Plant and Soil, 2021, 460, 211-227.	1.8	18
54	Towards a suitable ecological status assessment of highly stratified mediterranean estuaries: A comparison of benthic invertebrate fauna indices. Ecological Indicators, 2014, 46, 177-187.	2.6	17

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55	Benthic diatoms in a Mediterranean delta: ecological indicators and a conductivity transfer function for paleoenvironmental studies. Journal of Paleolimnology, 2015, 54, 171-188.	0.8	17
56	Environmental controls on carbon sequestration, sediment accretion, and elevation change in the Ebro River Delta: Implications for wetland restoration. Estuarine, Coastal and Shelf Science, 2019, 222, 32-42.	0.9	17
57	A Model to Determine the Advective Circulation in a Three Layer, Salt Wedge Estuary: Application to the Ebre River Estuary. Estuarine, Coastal and Shelf Science, 1999, 48, 271-279.	0.9	16
58	Benthic foraminifera as indicators of habitat change in anthropogenically impacted coastal wetlands of the Ebro Delta (NE Iberian Peninsula). Marine Pollution Bulletin, 2015, 101, 163-173.	2.3	16
59	Prey size and species preferences in the invasive blue crab, Callinectes sapidus: Potential effects in marine and freshwater ecosystems. Estuarine, Coastal and Shelf Science, 2020, 245, 106997.	0.9	16
60	Carbon metabolic rates and GHG emissions in different wetland types of the Ebro Delta. PLoS ONE, 2020, 15, e0231713.	1.1	16
61	Community structure of benthic macroinvertebrates inhabiting a highly stratified Mediterranean estuary. Scientia Marina, 2011, 75, 577-584.	0.3	16
62	Mineral versus organic contribution to vertical accretion and elevation change in restored marshes (Ebro Delta, Spain). Ecological Engineering, 2013, 61, 12-22.	1.6	15
63	Neglecting the fallow season can significantly underestimate annual methane emissions in Mediterranean rice fields. PLoS ONE, 2018, 13, e0198081.	1.1	15
64	The Influence of Flow Regime on Ecological Quality, Bird Diversity, and Shellfish Fisheries in a Lowland Mediterranean River and Its Coastal Area. Water (Switzerland), 2019, 11, 918.	1.2	15
65	Environmental Flows in the Lower Ebro River and Delta: Current Status and Guidelines for a Holistic Approach. Water (Switzerland), 2020, 12, 2670.	1.2	15
66	Gillnet selectivity in the Ebro Delta coastal lagoons and its implication for the fishery management of the sand smelt, Atherina boyeri (Actinopterygii: Atherinidae). Estuarine, Coastal and Shelf Science, 2012, 114, 41-49.	0.9	14
67	Benthic macrofaunal dynamics and environmental stress across a salt wedge Mediterranean estuary. Marine Environmental Research, 2016, 117, 21-31.	1.1	14
68	Salinity as the main factor structuring small-bodied fish assemblages in hydrologically altered Mediterranean coastal lagoons. Scientia Marina, 2013, 77, 37-45.	0.3	14
69	Pristine vs. human-altered Ebro Delta habitats display contrasting resilience to RSLR. Science of the Total Environment, 2019, 655, 1376-1386.	3.9	13
70	Freshwater inflows and seasonal forcing strongly influence macrofaunal assemblages in Mediterranean coastal lagoons. Estuarine, Coastal and Shelf Science, 2014, 147, 68-77.	0.9	12
71	Changes in nutrient concentration and carbon accumulation in a mediterranean restored marsh (Ebro Delta, Spain). Ecological Engineering, 2014, 71, 278-289.	1.6	12
72	Effects of agri-environmental and organic rice farming on yield and macrophyte community in Mediterranean paddy fields. Paddy and Water Environment, 2017, 15, 457-468.	1.0	12

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73	Warming and acidification-mediated resilience to bacterial infection determine mortality of early Ostrea edulis life stages. Marine Ecology - Progress Series, 2016, 545, 189-202.	0.9	12
74	Effect of post-harvest practices on greenhouse gas emissions in rice paddies: flooding regime and straw management. Plant and Soil, 2022, 474, 77-98.	1.8	11
75	Evaluation of seasonal variability in the food-web properties of coastal lagoons subjected to contrasting salinity gradients using network analyses. Ecological Modelling, 2013, 265, 180-193.	1.2	10
76	Effects of enhanced hydrological connectivity on Mediterranean salt marsh fish assemblages with emphasis on the endangered Spanish toothcarp (Aphanius iberus). PeerJ, 2017, 5, e3009.	0.9	10
77	Seasonal effects of waterfowl grazing on submerged macrophytes: The role of flowers. Aquatic Botany, 2015, 120, 275-282.	0.8	9
78	Effects of water transfers projected in the Spanish National Hydrological plan on the ecology of the lower river ebro (N.E. Spain) and its delta. Water Science and Technology, 1995, 31, 79.	1.2	8
79	Normalized abundance spectra of fish community reflect hydro-peaking on a Mediterranean large river. Ecological Indicators, 2019, 97, 280-289.	2.6	8
80	Bed load transport and incipient motion below a large gravel bed river bend. Advances in Water Resources, 2018, 120, 83-97.	1.7	7
81	Evaluating adaptation options to sea level rise and benefits to agriculture: The Ebro Delta showcase. Science of the Total Environment, 2022, 806, 150624.	3.9	7
82	Ecological Indicators to Assess the Health of River Ecosystems. Applied Ecology and Environmental Management, 2010, , 447-464.	0.1	7
83	Modelling the response of microalgae to CO2 addition. Ecological Modelling, 2014, 294, 42-50.	1.2	6
84	New Tools to Analyse the Ecological Status of Mediterranean Wetlands and Shallow Lakes. Handbook of Environmental Chemistry, 2015, , 171-199.	0.2	6
85	Changes in water and soil metals in a Mediterranean restored marsh subject to different water management schemes. Restoration Ecology, 2016, 24, 235-243.	1.4	6
86	Status and Sustainability of Mediterranean Deltas: The Case of the Ebro, RhÃ´ne, and Po Deltas and Venice Lagoon. , 2019, , 237-249.		6
87	Feeding Habits and Short-Term Mobility Patterns of Blue Crab, Callinectes sapidus, Across Invaded Habitats of the Ebro Delta Subjected to Contrasting Salinity. Estuaries and Coasts, 2022, 45, 839-855.	1.0	6
88	Planothidium iberensesp. nov., a new brackish diatom of the Ebro Estuary, northeast Spain. Diatom Research, 2011, 26, 99-107.	0.5	5
89	Rice Fields Used as Feeding Habitats for Waterfowl throughout the Growing Season. Waterbirds, 2015, 38, 238-251.	0.2	5
90	Dependence of sediment sorting on bedload transport phase in a river meander. Earth Surface Processes and Landforms, 2018, 43, 2077-2088.	1.2	5

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91	Impacts of Water Scarcity and Drought on Iberian Aquatic Ecosystems. , 2013, , 169-184.		5
92	Sexing and Ageing the Purple Swamphen Porphyrio porphyrio porphyrio by Plumage and Biometry. Ardeola, 2016, 63, 261.	0.4	4
93	Biological Indices Based on Macrophytes: An Overview of Methods Used in Catalonia and the USA to Determine the Status of Rivers and Wetlands. Handbook of Environmental Chemistry, 2015, , 81-99.	0.2	1
94	Biological Indicators to Assess the Ecological Status of River-Dominated Estuaries: The Case of Benthic Indicators in the Ebro River Estuary. Handbook of Environmental Chemistry, 2015, , 149-170.	0.2	1
95	Ebro Delta (Spain). , 2016, , 1-9.		1
96	Impact of a reservoir system on benthic macroinvertebrate and diatom communities of a large Mediterranean river (lower Ebro river, Catalonia, Spain). , 2018, , 209-228.		1
97	Restoration of Tidal Marshes. , 2021, , 443-475.		0
98	Modeling Management Options for Controlling the Invasive Zebra Mussel in a Mediterranean Reservoir. Developments in Environmental Modelling, 2014, 26, 501-517.	0.3	0
99	Ebro Delta (Spain). , 2018, , 1113-1121.		0
100	Water management alters phytoplankton and zooplankton communities in Ebro delta coastal lagoons. , 2017, , 113-126.		0