

Lazaro MarÃ- n-Guirao

List of Publications by Year in descending order

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66
papers

2,607
citations

126901

33
h-index

197805

49
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73
all docs

73
docs citations

73
times ranked

2118
citing authors

#	ARTICLE	IF	CITATIONS
1	Is coastal lagoon eutrophication likely to be aggravated by global climate change?. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 403-412.	2.1	148
2	Physiological and molecular evidence of differential short-term heat tolerance in Mediterranean seagrasses. <i>Scientific Reports</i> , 2016, 6, 28615.	3.3	90
3	Heat stress induced flowering can be a potential adaptive response to ocean warming for the iconic seagrass <i>Posidonia oceanica</i> . <i>Molecular Ecology</i> , 2019, 28, 2486-2501.	3.9	85
4	Effects of mining wastes on a seagrass ecosystem: metal accumulation and bioavailability, seagrass dynamics and associated community structure. <i>Marine Environmental Research</i> , 2005, 60, 317-337.	2.5	83
5	Establishing the ecological quality status of soft-bottom mining-impacted coastal water bodies in the scope of the Water Framework Directive. <i>Marine Pollution Bulletin</i> , 2005, 50, 374-387.	5.0	81
6	Relationship between sedimentation rates and benthic impact on MaÅ«rl beds derived from fish farming in the Mediterranean. <i>Marine Environmental Research</i> , 2011, 71, 22-30.	2.5	72
7	Effects of wild fishes on waste exportation from a Mediterranean fish farm. <i>Marine Ecology - Progress Series</i> , 2004, 277, 253-261.	1.9	72
8	Stress Memory in Seagrasses: First Insight Into the Effects of Thermal Priming and the Role of Epigenetic Modifications. <i>Frontiers in Plant Science</i> , 2020, 11, 494.	3.6	71
9	Amphipod and Sea Urchin tests to assess the toxicity of Mediterranean sediments: the case of PortmÅ«n Bay. <i>Scientia Marina</i> , 2004, 68, 205-213.	0.6	68
10	Ecophysiological plasticity of shallow and deep populations of the Mediterranean seagrasses <i>Posidonia oceanica</i> and <i>Cymodocea nodosa</i> in response to hypersaline stress. <i>Marine Environmental Research</i> , 2014, 95, 39-61.	2.5	67
11	Experimental evidence of warming-induced flowering in the Mediterranean seagrass <i>Posidonia oceanica</i> . <i>Marine Pollution Bulletin</i> , 2018, 134, 49-54.	5.0	67
12	Carbon economy of Mediterranean seagrasses in response to thermal stress. <i>Marine Pollution Bulletin</i> , 2018, 135, 617-629.	5.0	64
13	Molecular Mechanisms behind the Physiological Resistance to Intense Transient Warming in an Iconic Marine Plant. <i>Frontiers in Plant Science</i> , 2017, 8, 1142.	3.6	59
14	Responses of the Mediterranean seagrass <i>Posidonia oceanica</i> to hypersaline stress duration and recovery. <i>Marine Environmental Research</i> , 2013, 84, 60-75.	2.5	58
15	Phenotypic plasticity under rapid global changes: The intrinsic force for future seagrasses survival. <i>Evolutionary Applications</i> , 2021, 14, 1181-1201.	3.1	58
16	Depth-specific fluctuations of gene expression and protein abundance modulate the photophysiology in the seagrass <i>Posidonia oceanica</i> . <i>Scientific Reports</i> , 2017, 7, 42890.	3.3	57
17	The effect of salinity increase on the photosynthesis, growth and survival of the Mediterranean seagrass <i>Cymodocea nodosa</i> . <i>Estuarine, Coastal and Shelf Science</i> , 2012, 115, 260-271.	2.1	56
18	Photosynthesis, growth and survival of the Mediterranean seagrass <i>Posidonia oceanica</i> in response to simulated salinity increases in a laboratory mesocosm system. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 92, 286-296.	2.1	55

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19	Changes in macrophytes distribution in a hypersaline coastal lagoon associated with the development of intensively irrigated agriculture. <i>Ocean and Coastal Management</i> , 2005, 48, 828-842.	4.4	51
20	Carbon and nitrogen stable isotopes and metal concentration in food webs from a mining-impacted coastal lagoon. <i>Science of the Total Environment</i> , 2008, 393, 118-130.	8.0	51
21	Responses of the Mediterranean seagrass <i>Posidonia oceanica</i> to <i>in situ</i> simulated salinity increase. <i>Botanica Marina</i> , 2009, 52, 459-470.	1.2	49
22	Tolerance of Mediterranean seagrasses (<i>Posidonia oceanica</i> and <i>Cymodocea nodosa</i>) to hypersaline stress: water relations and osmolyte concentrations. <i>Marine Biology</i> , 2012, 159, 1129-1141.	1.5	49
23	Seagrass collapse due to synergistic stressors is not anticipated by phenological changes. <i>Oecologia</i> , 2018, 186, 1137-1152.	2.0	48
24	Differential Leaf Age-Dependent Thermal Plasticity in the Keystone Seagrass <i>Posidonia oceanica</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1556.	3.6	48
25	Seagrasses in an era of ocean warming: a review. <i>Biological Reviews</i> , 2021, 96, 2009-2030.	10.4	47
26	Comparison between some procedures for monitoring offshore cage culture in western Mediterranean Sea: Sampling methods and impact indicators in soft substrata. <i>Aquaculture</i> , 2007, 271, 357-370.	3.5	46
27	Within- and among-leaf variations in photo-physiological functions, gene expression and DNA methylation patterns in the large-sized seagrass <i>Posidonia oceanica</i> . <i>Marine Biology</i> , 2019, 166, 1.	1.5	46
28	An alternative approach for managing scuba diving in small marine protected areas. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2006, 16, 579-591.	2.0	43
29	Antioxidant response to heat stress in seagrasses. A gene expression study. <i>Marine Environmental Research</i> , 2017, 132, 94-102.	2.5	43
30	Effects of an experimental heat wave on fatty acid composition in two Mediterranean seagrass species. <i>Marine Pollution Bulletin</i> , 2018, 134, 27-37.	5.0	43
31	Investigating cellular stress response to heat stress in the seagrass <i>Posidonia oceanica</i> in a global change scenario. <i>Marine Environmental Research</i> , 2018, 141, 12-23.	2.5	42
32	The modulation of leaf metabolism plays a role in salt tolerance of <i>Cymodocea nodosa</i> exposed to hypersaline stress in mesocosms. <i>Frontiers in Plant Science</i> , 2015, 6, 464.	3.6	40
33	Long-term acclimation to reciprocal light conditions suggests depth-related selection in the marine foundation species <i>Posidonia oceanica</i> . <i>Ecology and Evolution</i> , 2017, 7, 1148-1164.	1.9	37
34	Plant water relations and ion homeostasis of Mediterranean seagrasses (<i>Posidonia oceanica</i> and <i>Cymodocea nodosa</i>). <i>Journal of Experimental Botany</i> , 2010, 51, 107-115.	1.5	35
35	Does Warming Enhance the Effects of Eutrophication in the Seagrass <i>Posidonia oceanica</i> ?. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	35
36	Xanthophyll cycle-related photoprotective mechanism in the Mediterranean seagrasses <i>Posidonia oceanica</i> and <i>Cymodocea nodosa</i> under normal and stressful hypersaline conditions. <i>Aquatic Botany</i> , 2013, 109, 14-24.	1.6	33

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37	Combined in situ effects of metals and nutrients on marine biofilms: Shifts in the diatom assemblage structure and biological traits. <i>Science of the Total Environment</i> , 2017, 574, 381-389.	8.0	33
38	Integrative ecotoxicological assessment of sediment in Portmán Bay (southeast Spain). <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 1832-1841.	6.0	31
39	Pulse-discharges of mining wastes into a coastal lagoon: Water chemistry and toxicity. <i>Chemistry and Ecology</i> , 2007, 23, 217-231.	1.6	30
40	A king and vassals' tale: Molecular signatures of clonal integration in <i>Posidonia oceanica</i> under chronic light shortage. <i>Journal of Ecology</i> , 2021, 109, 294-312.	4.0	28
41	The Genetic Component of Seagrass Restoration: What We Know and the Way Forwards. <i>Water (Switzerland)</i> , 2021, 13, 829.	2.7	28
42	Assessment of sediment metal contamination in the Mar Menor coastal lagoon (SE Spain): Metal distribution, toxicity, bioaccumulation and benthic community structure. <i>Ciencias Marinas</i> , 2005, 31, 413-428.	0.4	27
43	Utility of sea urchin embryo "larval bioassays for assessing the environmental impact of marine fishcage farming. <i>Aquaculture</i> , 2007, 271, 286-297.	3.5	26
44	Assessment of the abiotic and biotic effects of sodium metabisulphite pulses discharged from desalination plant chemical treatments on seagrass (<i>Cymodocea nodosa</i>) habitats in the Canary Islands. <i>Marine Pollution Bulletin</i> , 2014, 80, 222-233.	5.0	26
45	Interlaboratory assessment of marine bioassays to evaluate the environmental quality of coastal sediments in Spain. IV. Whole sediment toxicity test using crustacean amphipods. <i>Ciencias Marinas</i> , 2006, 32, 149-157.	0.4	25
46	Aquaculture of Bluefin tuna in the Mediterranean: evaluation of organic particulate wastes. <i>Aquaculture Research</i> , 2004, 35, 1384-1387.	1.8	24
47	Resistance of <i>Posidonia oceanica</i> seagrass meadows to the spread of the introduced green alga <i>Caulerpa cylindracea</i> : assessment of the role of light. <i>Biological Invasions</i> , 2015, 17, 1989-2009.	2.4	24
48	Sensitivity of Mediterranean amphipods and sea urchins to reference toxicants. <i>Ciencias Marinas</i> , 2002, 28, 407-417.	0.4	24
49	Molecular level responses to chronic versus pulse nutrient loading in the seagrass <i>Posidonia oceanica</i> undergoing herbivore pressure. <i>Oecologia</i> , 2018, 188, 23-39.	2.0	22
50	Photoacclimation of <i>Caulerpa cylindracea</i> : Light as a limiting factor in the invasion of native Mediterranean seagrass meadows. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 465, 130-141.	1.5	21
51	The Stenohaline Seagrass <i>Posidonia oceanica</i> Can Persist in Natural Environments Under Fluctuating Hypersaline Conditions. <i>Estuaries and Coasts</i> , 2017, 40, 1688-1704.	2.2	18
52	Gene body DNA methylation in seagrasses: inter- and intraspecific differences and interaction with transcriptome plasticity under heat stress. <i>Scientific Reports</i> , 2021, 11, 14343.	3.3	17
53	Thermo-priming increases heat-stress tolerance in seedlings of the Mediterranean seagrass <i>P. oceanica</i> . <i>Marine Pollution Bulletin</i> , 2022, 174, 113164.	5.0	17
54	Effects of Current and Future Summer Marine Heat Waves on <i>Posidonia oceanica</i> : Plant Origin Matters?. <i>Frontiers in Climate</i> , 2022, 4, .	2.8	14

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55	Spread of the invasive alga <i>Caulerpa racemosa</i> var. <i>cylindracea</i> (Caulerpales, Chlorophyta) along the Mediterranean Coast of the Murcia region (SE Spain). <i>Animal Biodiversity and Conservation</i> , 2011, 34, 73-82.	0.5	13
56	Tissue-specific transcriptomic profiling provides new insights into the reproductive ecology and biology of the iconic seagrass species <i>Posidonia oceanica</i> . <i>Marine Genomics</i> , 2017, 35, 51-61.	1.1	10
57	Long-term coexistence between the macroalga <i>Caulerpa prolifera</i> and the seagrass <i>Cymodocea nodosa</i> in a Mediterranean lagoon. <i>Aquatic Botany</i> , 2021, 173, 103415.	1.6	9
58	Local environment modulates whole-transcriptome expression in the seagrass <i>Posidonia oceanica</i> under warming and nutrients excess. <i>Environmental Pollution</i> , 2022, 303, 119077.	7.5	9
59	Plant-water relations of intertidal and subtidal seagrasses. <i>Marine Ecology</i> , 2015, 36, 1294-1310.	1.1	8
60	Photosynthesis and daily metabolic carbon balance of the invasive <i>Caulerpa racemosa</i> var. <i>cylindracea</i> (Chlorophyta: Caulerpales) along a depth gradient. <i>Scientia Marina</i> , 2011, 75, 803-810.	0.6	8
61	Photo-acclimatory thresholds anticipate sudden shifts in seagrass ecosystem state under reduced light conditions. <i>Marine Environmental Research</i> , 2022, 177, 105636.	2.5	6
62	Photo-physiology and morphology reveal divergent warming responses in northern and southern hemisphere seagrasses. <i>Marine Biology</i> , 2021, 168, 1.	1.5	5
63	Evidence for the long-term resistance of <i>Posidonia oceanica</i> meadows to <i>Caulerpa cylindracea</i> invasion. <i>Aquatic Botany</i> , 2020, 160, 103167.	1.6	3
64	Assessment of long-term interaction between an opportunistic macroalga and a native seagrass in a Mediterranean coastal lagoon. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	2
65	Physiological tipping points to light reduction underlie seagrass population collapse and abrupt shift in a shallow coastal lagoon. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	1
66	Photosynthesis and carbon balance in deep <i>Posidonia oceanica</i> meadows under the influence of diffuse anthropogenic pressures. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0