Oscar Serrano

List of Publications by Year
in descending order

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Version: 2024-02-01

82 papers	6,909 citations	76326 40 h-index	62596 80 g-index
89 all docs	89 docs citations	89 times ranked	5282 citing authors

#	Article	IF	Citations
1	Wildfires enhance phytoplankton production in tropical oceans. Nature Communications, 2022, 13, 1348.	12.8	15
2	Impacts of land-use change and urban development on carbon sequestration in tropical seagrass meadow sediments. Marine Environmental Research, 2022, 176, 105608.	2.5	6
3	Fingerprinting macrophyte Blue Carbon by pyrolysis-GC-compound specific isotope analysis (Py-CSIA). Science of the Total Environment, 2022, 836, 155598.	8.0	3
4	Soil Carbon Stocks Vary Across Geomorphic Settings in Australian Temperate Tidal Marsh Ecosystems. Ecosystems, 2021, 24, 319-334.	3.4	23
5	Current and future carbon stocks in coastal wetlands within the Great Barrier Reef catchments. Global Change Biology, 2021, 27, 3257-3271.	9.5	12
6	Seagrass blue carbon stocks and sequestration rates in the Colombian Caribbean. Scientific Reports, 2021, 11, 11067.	3.3	19
7	Factors Determining Seagrass Blue Carbon Across Bioregions and Geomorphologies. Global Biogeochemical Cycles, 2021, 35, e2021GB006935.	4.9	34
8	The renaissance of Odum's outwelling hypothesis in 'Blue Carbon' science. Estuarine, Coastal and Shelf Science, 2021, 255, 107361.	2.1	107
9	Heterogeneous tidal marsh soil organic carbon accumulation among and within temperate estuaries in Australia. Science of the Total Environment, 2021, 787, 147482.	8.0	3
10	National scale predictions of contemporary and future blue carbon storage. Science of the Total Environment, 2021, 800, 149573.	8.0	24
11	Impact of Marine Heatwaves on Seagrass Ecosystems. Ecological Studies, 2021, , 345-364.	1.2	12
12	Blue carbon as a natural climate solution. Nature Reviews Earth & Environment, 2021, 2, 826-839.	29.7	261
13	Challenges to select suitable habitats and demonstrate â€˜additionalityâ€™ in Blue Carbon projects: A seagrass case study. Ocean and Coastal Management, 2020, 197, 105295.	4.4	13
14	Reconstruction of 7500Âyears of coastal environmental change impacting seagrass ecosystem dynamics in Oyster Harbour (SW Australia). Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 558, 109953.	2.3	6
15	Deciphering the Unique Structure and Acylation Pattern of Posidonia oceanica Lignin. ACS Sustainable Chemistry and Engineering, 2020, 8, 12521-12533.	6.7	24
16	Deciphering organic matter sources and ecological shifts in blue carbon ecosystems based on molecular fingerprinting. Science of the Total Environment, 2020, 742, 140554.	8.0	18
17	Pedogenic Processes in a Posidonia oceanica Mat. Soil Systems, 2020, 4, 18.	2.6	9
18	Organic chemistry insights for the exceptional soil carbon storage of the seagrass Posidonia australis. Estuarine, Coastal and Shelf Science, 2020, 237, 106662.	2.1	10

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19	Seagrass losses since midâ€20th century fuelled CO₂ emissions from soil carbon stocks. Global Change Biology, 2020, 26, 4772-4784.	9.5	48
20	Role of vegetated coastal ecosystems as nitrogen and phosphorous filters and sinks in the coasts of Saudi Arabia. Environmental Research Letters, 2020, 15, 034058.	5.2	21
21	Factors regulating primary producers' assemblages in Posidonia oceanica (L.) Delile ecosystems over the past 1800â€¯years. Science of the Total Environment, 2020, 718, 137163.	8.0	8
22	Contribution of Seagrass Blue Carbon Toward Carbon Neutral Policies in a Touristic and Environmentally-Friendly Island. Frontiers in Marine Science, 2020, 7, .	2.5	51
23	A national approach to greenhouse gas abatement through blue carbon management. Global Environmental Change, 2020, 63, 102083.	7.8	69
24	Reef fish and turtles call seagrass home. Frontiers in Ecology and the Environment, 2020, 18, 166-166.	4.0	1
25	Impact of seagrass establishment, industrialization and coastal infrastructure on seagrass biogeochemical sinks. Marine Environmental Research, 2020, 160, 104990.	2.5	23
26	Opportunities for blue carbon strategies in China. Ocean and Coastal Management, 2020, 194, 105241.	4.4	60
27	Millennial-scale changes in the molecular composition of Posidonia australis seagrass deposits: Implications for Blue Carbon sequestration. Organic Geochemistry, 2019, 137, 103898.	1.8	15
28	Modeling Organic Carbon Accumulation Rates and Residence Times in Coastal Vegetated Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3652-3671.	3.0	13
29	The future of Blue Carbon science. Nature Communications, 2019, 10, 3998.	12.8	406
30	Australian vegetated coastal ecosystems as global hotspots for climate change mitigation. Nature Communications, 2019, 10, 4313.	12.8	150
31	Fingerprinting Blue Carbon: Rationale and Tools to Determine the Source of Organic Carbon in Marine Depositional Environments. Frontiers in Marine Science, 2019, 6, .	2.5	75
32	Role of carbonate burial in Blue Carbon budgets. Nature Communications, 2019, 10, 1106.	12.8	105
33	What publishing as a lead author has taught me. Nature, 2019, 576, 499-501.	27.8	0
34	Conservation of Blue Carbon Ecosystems for Climate Change Mitigation and Adaptation. , 2019, , 965-996.		27
35	Seagrass soil archives reveal centennial-scale metal smelter contamination while acting as natural filters. Science of the Total Environment, 2019, 649, 1381-1392.	8.0	17
36	Seagrass sedimentary deposits as security vaults and time capsules of the human past. Ambio, 2019, 48, 325-335.	5.5	17

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37	Habitat characteristics provide insights of carbon storage in seagrass meadows. Marine Pollution Bulletin, 2018, 134, 106-117.	5.0	145
38	Accumulation of Carbonates Contributes to Coastal Vegetated Ecosystems Keeping Pace With Sea Level Rise in an Arid Region (Arabian Peninsula). Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1498-1510.	3.0	48
39	A marine heatwave drives massive losses from the worldâ€™s largest seagrass carbon stocks. Nature Climate Change, 2018, 8, 338-344.	18.8	318
40	Polyp bail-out by the coral Astroides calycularis (Scleractinia, Dendrophylliidae). Marine Biodiversity, 2018, 48, 1661-1665.	1.0	18
41	Comment on â€˜Geoengineering with seagrasses: is credit due where credit is given?â€™. Environmental Research Letters, 2018, 13, 028002.	5.2	11
42	Reviews and syntheses: ²¹⁰Pb-derived sediment and carbon accumulation rates in vegetated coastal ecosystems â€“ setting the record straight. Biogeosciences, 2018, 15, 6791-6818.	3.3	121
43	Remobilization of Heavy Metals by Mangrove Leaves. Frontiers in Marine Science, 2018, 5, .	2.5	32
44	Optimal soil carbon sampling designs to achieve cost-effectiveness: a case study in blue carbon ecosystems. Biology Letters, 2018, 14, 20180416.	2.3	14
45	Carbon stocks and accumulation rates in Red Sea seagrass meadows. Scientific Reports, 2018, 8, 15037.	3.3	41
46	Sequestration of macroalgal carbon: the elephant in the Blue Carbon room. Biology Letters, 2018, 14, 20180236.	2.3	222
47	Radically different lignin composition in Posidonia species may link to differences in organic carbon sequestration capacity. Organic Geochemistry, 2018, 124, 247-256.	1.8	31
48	Millennial-scale trends and controls in Posidonia oceanica (L. Delile) ecosystem productivity. Global and Planetary Change, 2018, 169, 92-104.	3.5	14
49	A six thousandâ€year record of climate and landâ€use change from Mediterranean seagrass mats. Journal of Ecology, 2017, 105, 1267-1278.	4.0	21
50	Assessing the risk of carbon dioxide emissions from blue carbon ecosystems. Frontiers in Ecology and the Environment, 2017, 15, 257-265.	4.0	145
51	Carbon sequestration by Australian tidal marshes. Scientific Reports, 2017, 7, 44071.	3.3	112
52	Low Carbon sink capacity of Red Sea mangroves. Scientific Reports, 2017, 7, 9700.	3.3	87
53	Addressing calcium carbonate cycling in blue carbon accounting. Limnology and Oceanography Letters, 2017, 2, 195-201.	3.9	100
54	Global patterns in mangrove soil carbon stocks and losses. Nature Climate Change, 2017, 7, 523-528.	18.8	412

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55	Commentary: Evaluating the Role of Seagrass in Cenozoic CO2 Variations. Frontiers in Environmental Science, 2017, 5, .	3.3	2
56	Seagrass Meadows Provide 3D Habitat for Reef Fish. Frontiers in Marine Science, 2017, 4, .	2.5	6
57	Can mud (silt and clay) concentration be used to predict soil organic carbon content within seagrass ecosystems?. Biogeosciences, 2016, 13, 4915-4926.	3.3	92
58	Key biogeochemical factors affecting soil carbon storage in <i>Posidonia</i> meadows. Biogeosciences, 2016, 13, 4581-4594.	3.3	74
59	Location and Associated Carbon Storage of Erosional Escarpments of Seagrass Posidonia Mats. Frontiers in Marine Science, 2016, 3, .	2.5	46
60	Seagrass sediments reveal the longâ€term deterioration of an estuarine ecosystem. Global Change Biology, 2016, 22, 1523-1531.	9.5	35
61	Impact of mooring activities on carbon stocks in seagrass meadows. Scientific Reports, 2016, 6, 23193.	3.3	84
62	Molecular composition of plant parts and sediment organic matter in a Mediterranean seagrass (Posidonia oceanica) mat. Aquatic Botany, 2016, 133, 50-61.	1.6	49
63	Utilization of carbon substrates by heterotrophic bacteria through vertical sediment profiles in coastal and estuarine seagrass meadows. Environmental Microbiology Reports, 2016, 8, 582-589.	2.4	13
64	Long-term carbon storage and its recent loss in an estuarine Posidonia australis meadow (Albany,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	42
65	Reconstruction of centennial-scale fluxes of chemical elements in the Australian coastal environment using seagrass archives. Science of the Total Environment, 2016, 541, 883-894.	8.0	31
66	Seagrass meadows as a globally significant carbonate reservoir. Biogeosciences, 2015, 12, 4993-5003.	3.3	104
67	Glomalin accumulated in seagrass sediments reveals past alterations in soil quality due to land-use change. Global and Planetary Change, 2015, 133, 87-95.	3.5	48
68	Influence of water depth on the carbon sequestration capacity of seagrasses. Global Biogeochemical Cycles, 2014, 28, 950-961.	4.9	114
69	Climate change and Mediterranean seagrass meadows: a synopsis for environmental managers. Mediterranean Marine Science, 2014, 15, 462.	1.6	82
70	Millennial scale impact on the marine biogeochemical cycle of mercury from early mining on the Iberian Peninsula. Global Biogeochemical Cycles, 2013, 27, 21-30.	4.9	42
71	Variability in the Carbon Storage of Seagrass Habitats and Its Implications for Global Estimates of Blue Carbon Ecosystem Service. PLoS ONE, 2013, 8, e73748.	2.5	324
72	Characterization of soils beneath a Posidonia oceanica meadow. Geoderma, 2012, 185-186, 26-36.	5.1	95

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73	Seagrass ecosystems as a globally significant carbon stock. Nature Geoscience, 2012, 5, 505-509.	12.9	1,406
74	The Posidonia oceanica marine sedimentary record: A Holocene archive of heavy metal pollution. Science of the Total Environment, 2011, 409, 4831-4840.	8.0	92
75	Temperature effects on decomposition of a Posidonia oceanica mat. Aquatic Microbial Ecology, 2011, 65, 169-182.	1.8	60
76	Seasonal response of Posidonia oceanica to light disturbances. Marine Ecology - Progress Series, 2011, 423, 29-38.	1.9	22
77	Palaeoecological potential of the marine organic deposits of Posidonia oceanica: A case study in the NE Iberian Peninsula. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 271, 215-224.	2.3	46
78	On the role of Posidonia oceanica beach wrack for macroinvertebrates of a Tyrrhenian sandy shore. Acta Oecologica, 2009, 35, 32-44.	1.1	38
79	Effects of sample preparation on stable isotope ratios of carbon and nitrogen in marine invertebrates: implications for food web studies using stable isotopes. Oecologia, 2008, 157, 105-115.	2.0	161
80	Acid washing effect on elemental and isotopic composition of whole beach arthropods: Implications for food web studies using stable isotopes. Acta Oecologica, 2008, 34, 89-96.	1.1	48
81	Effects of sample pre-treatment on the Î´13C and Î´18O values of living benthic foraminifera. Chemical Geology, 2008, 257, 218-220.	3.3	23
82	Very highâ€resolution seismoâ€acoustic imaging of seagrass meadows (Mediterranean Sea): Implications for carbon sink estimates. Geophysical Research Letters, 2008, 35, .	4.0	99