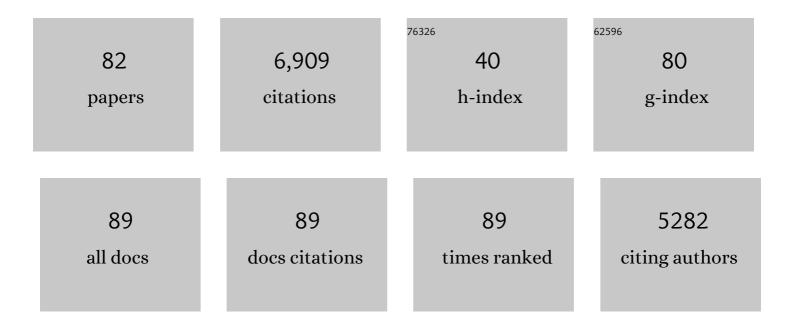
Oscar Serrano

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5254496/publications.pdf Version: 2024-02-01



OSCAD SEDDANO

#	Article	IF	CITATIONS
1	Seagrass ecosystems as a globally significant carbon stock. Nature Geoscience, 2012, 5, 505-509.	12.9	1,406
2	Global patterns in mangrove soil carbon stocks and losses. Nature Climate Change, 2017, 7, 523-528.	18.8	412
3	The future of Blue Carbon science. Nature Communications, 2019, 10, 3998.	12.8	406
4	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
5	A marine heatwave drives massive losses from the world's largest seagrass carbon stocks. Nature Climate Change, 2018, 8, 338-344.	18.8	318
6	Blue carbon as a natural climate solution. Nature Reviews Earth & Environment, 2021, 2, 826-839.	29.7	261
7	Sequestration of macroalgal carbon: the elephant in the Blue Carbon room. Biology Letters, 2018, 14, 20180236.	2.3	222
8	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
9	Australian vegetated coastal ecosystems as global hotspots for climate change mitigation. Nature Communications, 2019, 10, 4313.	12.8	150
10	Assessing the risk of carbon dioxide emissions from blue carbon ecosystems. Frontiers in Ecology and the Environment, 2017, 15, 257-265.	4.0	145
11	Habitat characteristics provide insights of carbon storage in seagrass meadows. Marine Pollution Bulletin, 2018, 134, 106-117.	5.0	145
12	Reviews and syntheses: ²¹⁰ Pb-derived sediment and carbon accumulation rates in vegetated coastal ecosystems – setting the record straight. Biogeosciences, 2018, 15, 6791-6818.	3.3	121
13	Influence of water depth on the carbon sequestration capacity of seagrasses. Global Biogeochemical Cycles, 2014, 28, 950-961.	4.9	114
14	Carbon sequestration by Australian tidal marshes. Scientific Reports, 2017, 7, 44071.	3.3	112
15	The renaissance of Odum's outwelling hypothesis in 'Blue Carbon' science. Estuarine, Coastal and Shelf Science, 2021, 255, 107361.	2.1	107
16	Role of carbonate burial in Blue Carbon budgets. Nature Communications, 2019, 10, 1106.	12.8	105
17	Seagrass meadows as a globally significant carbonate reservoir. Biogeosciences, 2015, 12, 4993-5003.	3.3	104
18	Addressing calcium carbonate cycling in blue carbon accounting. Limnology and Oceanography Letters. 2017. 2. 195-201.	3.9	100

OSCAR SERRANO

#	Article	IF	CITATIONS
19	Very highâ€resolution seismoâ€acoustic imaging of seagrass meadows (Mediterranean Sea): Implications for carbon sink estimates. Geophysical Research Letters, 2008, 35, .	4.0	99
20	Characterization of soils beneath a Posidonia oceanica meadow. Geoderma, 2012, 185-186, 26-36.	5.1	95
21	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
22	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
23	Low Carbon sink capacity of Red Sea mangroves. Scientific Reports, 2017, 7, 9700.	3.3	87
24	Impact of mooring activities on carbon stocks in seagrass meadows. Scientific Reports, 2016, 6, 23193.	3.3	84
25	Climate change and Mediterranean seagrass meadows: a synopsis for environmental managers. Mediterranean Marine Science, 2014, 15, 462.	1.6	82
26	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
27	Key biogeochemical factors affecting soil carbon storage in <i>Posidonia</i> meadows. Biogeosciences, 2016, 13, 4581-4594.	3.3	74
28	A national approach to greenhouse gas abatement through blue carbon management. Global Environmental Change, 2020, 63, 102083.	7.8	69
29	Opportunities for blue carbon strategies in China. Ocean and Coastal Management, 2020, 194, 105241.	4.4	60
30	Temperature effects on decomposition of a Posidonia oceanica mat. Aquatic Microbial Ecology, 2011, 65, 169-182.	1.8	60
31	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
32	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
33	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
34	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
35	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
36	Seagrass losses since midâ€20th century fuelled CO ₂ emissions from soil carbon stocks. Global Change Biology, 2020, 26, 4772-4784.	9.5	48

#	Article	IF	CITATIONS
37	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
38	Location and Associated Carbon Storage of Erosional Escarpments of Seagrass Posidonia Mats. Frontiers in Marine Science, 2016, 3, .	2.5	46
39	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
40	Long-term carbon storage and its recent loss in an estuarine Posidonia australis meadow (Albany,) Tj ETQq0 0 0	rgBT /Over 2.1	lock 10 Tf 50
41	Carbon stocks and accumulation rates in Red Sea seagrass meadows. Scientific Reports, 2018, 8, 15037.	3.3	41
42	On the role of Posidonia oceanica beach wrack for macroinvertebrates of a Tyrrhenian sandy shore. Acta Oecologica, 2009, 35, 32-44.	1.1	38
43	Seagrass sediments reveal the longâ€ŧerm deterioration of an estuarine ecosystem. Global Change Biology, 2016, 22, 1523-1531.	9.5	35
44	Factors Determining Seagrass Blue Carbon Across Bioregions and Geomorphologies. Global Biogeochemical Cycles, 2021, 35, e2021GB006935.	4.9	34
45	Remobilization of Heavy Metals by Mangrove Leaves. Frontiers in Marine Science, 2018, 5, .	2.5	32
46	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
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	Conservation of Blue Carbon Ecosystems for Climate Change Mitigation and Adaptation. , 2019, , 965-996.		27
49	Deciphering the Unique Structure and Acylation Pattern of <i>Posidonia oceanica</i> Lignin. ACS Sustainable Chemistry and Engineering, 2020, 8, 12521-12533.	6.7	24
50	National scale predictions of contemporary and future blue carbon storage. Science of the Total Environment, 2021, 800, 149573.	8.0	24
51	Effects of sample pre-treatment on the δ13C and δ18O values of living benthic foraminifera. Chemical Geology, 2008, 257, 218-220.	3.3	23
52	Impact of seagrass establishment, industrialization and coastal infrastructure on seagrass biogeochemical sinks. Marine Environmental Research, 2020, 160, 104990.	2.5	23
53	Soil Carbon Stocks Vary Across Geomorphic Settings in Australian Temperate Tidal Marsh Ecosystems. Ecosystems, 2021, 24, 319-334.	3.4	23
54	Seasonal response of Posidonia oceanica to light disturbances. Marine Ecology - Progress Series, 2011, 423, 29-38.	1.9	22

OSCAR SERRANO

#	Article	IF	CITATIONS
55	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
56	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
57	Seagrass blue carbon stocks and sequestration rates in the Colombian Caribbean. Scientific Reports, 2021, 11, 11067.	3.3	19
58	Polyp bail-out by the coral Astroides calycularis (Scleractinia, Dendrophylliidae). Marine Biodiversity, 2018, 48, 1661-1665.	1.0	18
59	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
60	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
61	Seagrass sedimentary deposits as security vaults and time capsules of the human past. Ambio, 2019, 48, 325-335.	5.5	17
62	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
63	Wildfires enhance phytoplankton production in tropical oceans. Nature Communications, 2022, 13, 1348.	12.8	15
64	Optimal soil carbon sampling designs to achieve cost-effectiveness: a case study in blue carbon ecosystems. Biology Letters, 2018, 14, 20180416.	2.3	14
65	Millennial-scale trends and controls in Posidonia oceanica (L. Delile) ecosystem productivity. Global and Planetary Change, 2018, 169, 92-104.	3.5	14
66	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
67	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
68	Challenges to select suitable habitats and demonstrate â€~additionality' in Blue Carbon projects: A seagrass case study. Ocean and Coastal Management, 2020, 197, 105295.	4.4	13
69	Current and future carbon stocks in coastal wetlands within the Great Barrier Reef catchments. Global Change Biology, 2021, 27, 3257-3271.	9.5	12
70	Impact of Marine Heatwaves on Seagrass Ecosystems. Ecological Studies, 2021, , 345-364.	1.2	12
71	Comment on â€~Geoengineering with seagrasses: is credit due where credit is given?'. Environmental Research Letters, 2018, 13, 028002.	5.2	11
72	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

OSCAR SERRANO

#	Article	IF	CITATIONS
73	Pedogenic Processes in a Posidonia oceanica Mat. Soil Systems, 2020, 4, 18.	2.6	9
74	Factors regulating primary producers' assemblages in Posidonia oceanica (L.) Delile ecosystems over the past 1800†years. Science of the Total Environment, 2020, 718, 137163.	8.0	8
75	Seagrass Meadows Provide 3D Habitat for Reef Fish. Frontiers in Marine Science, 2017, 4, .	2.5	6
76	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
77	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
78	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
79	Fingerprinting macrophyte Blue Carbon by pyrolysis-GC-compound specific isotope analysis (Py-CSIA). Science of the Total Environment, 2022, 836, 155598.	8.0	3
80	Commentary: Evaluating the Role of Seagrass in Cenozoic CO2 Variations. Frontiers in Environmental Science, 2017, 5, .	3.3	2
81	Reef fish and turtles call seagrass home. Frontiers in Ecology and the Environment, 2020, 18, 166-166.	4.0	1
82	What publishing as a lead author has taught me. Nature, 2019, 576, 499-501.	27.8	0