

Christian J Sanders

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125 papers	3,222 citations	31 h-index	53 g-index
136 ext. papers	4,023 ext. citations	4.6 avg, IF	5.58 L-index

#	Paper	IF	Citations
125	Anthropogenic nitrate attenuation versus nitrous oxide release from a woodchip bioreactor.. <i>Environmental Pollution</i> , 2022 , 300, 118814	9.3	1
124	Carbon and Nitrogen Contents Driven by Organic Matter Source within Pichavaram Wetland Sediments. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 53	2.4	0
123	Seasonal changes in metal and nutrient fluxes across the sediment-water interface in tropical mangrove creeks in the Amazon region. <i>Applied Geochemistry</i> , 2022 , 138, 105217	3.5	1
122	Organic matter processing through an estuarine system: Evidence from stable isotopes ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) and molecular (lignin phenols) signatures. <i>Estuarine, Coastal and Shelf Science</i> , 2022 , 265, 107707	2.9	0
121	Increasing carbon, nutrient and trace metal accumulation driven by development in a mangrove estuary in south Asia.. <i>Science of the Total Environment</i> , 2022 , 154900	10.2	0
120	Pesticide occurrence in an agriculturally intensive and ecologically important coastal aquatic system in Australia. <i>Marine Pollution Bulletin</i> , 2022 , 180, 113675	6.7	0
119	Global blue carbon accumulation in tidal wetlands increases with climate change. <i>National Science Review</i> , 2021 , 8, nwaa296	10.8	31
118	Nitrous oxide hot moments and cold spots in a subtropical estuary: Floods and mangroves. <i>Estuarine, Coastal and Shelf Science</i> , 2021 , 264, 107656	2.9	
117	Assessment of the temporal retention of mercury and nutrient records within the mangrove sediments of a highly impacted estuary.. <i>Environmental Research</i> , 2021 , 206, 112569	7.9	0
116	Organic carbon accumulation in oligotrophic coastal lakes in southern Brazil during the last century. <i>Journal of Paleolimnology</i> , 2021 , 66, 71-82	2.1	1
115	Reply to Comment by R. Parkinson on Increasing Rates of Carbon Burial in Southwest Florida Coastal Wetlands by J. Breithaupt et al.. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006245	3.7	
114	Anthropogenic and environmental influences on nutrient accumulation in mangrove sediments. <i>Marine Pollution Bulletin</i> , 2021 , 165, 112174	6.7	4
113	Alkalinity Production Coupled to Pyrite Formation Represents an Unaccounted Blue Carbon Sink. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006785	5.9	3
112	Hypersaline tidal flats as important Blue carbon systems: a case study from three ecosystems. <i>Biogeosciences</i> , 2021 , 18, 2527-2538	4.6	2
111	Large aquatic nitrous oxide emissions downstream of intensive horticulture driven by rain events. <i>Journal of Hydrology</i> , 2021 , 596, 126066	6	5
110	Cryptic night-time trace metal and metalloid contamination in an intensively cultivated coastal catchment. <i>Environmental Pollution</i> , 2021 , 276, 116685	9.3	2
109	Reconstructing the history of environmental impact in a tropical mangrove ecosystem: A case study from the Suape port-industrial complex, Brazil. <i>Regional Studies in Marine Science</i> , 2021 , 44, 101747	1.5	

108	Mangrove carbon and nutrient accumulation shifts driven by rapid development in a tropical estuarine system, northeast Brazil. <i>Marine Pollution Bulletin</i> , 2021 , 166, 112219	6.7	5
107	Local geomorphological gradients affect sedimentary organic carbon storage: A Blue Carbon case study from sub-tropical Australia. <i>Regional Studies in Marine Science</i> , 2021 , 45, 101840	1.5	1
106	Factors Determining Seagrass Blue Carbon Across Bioregions and Geomorphologies. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB006935	5.9	5
105	Contrasting Radium-Derived Groundwater Exchange and Nutrient Lateral Fluxes in a Natural Mangrove Versus an Artificial Canal. <i>Estuaries and Coasts</i> , 2021 , 44, 123-136	2.8	8
104	Land use and episodic rainfall as drivers of nitrogen exports in subtropical rivers: Insights from $\text{N}_2\text{-NO}$, D-NO and Rn . <i>Science of the Total Environment</i> , 2021 , 758, 143669	10.2	5
103	The mangrove CO_2 pump: Tidally driven pore-water exchange. <i>Limnology and Oceanography</i> , 2021 , 66, 1563-1577	4.8	10
102	Assessing pesticide, trace metal, and arsenic contamination in soils and dam sediments in a rapidly expanding horticultural area in Australia. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 3189-3211	4.7	1
101	Natural attenuation of large anthropogenic nitrate loads in a subtropical stream revealed by $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$. <i>Journal of Hydrology</i> , 2021 , 598, 126077	6	1
100	Submarine Groundwater Discharge Releases CO_2 to a Coral Reef. <i>ACS ES&T Water</i> , 2021 , 1, 1756-1764		1
99	Ecosystem carbon losses following a climate-induced mangrove mortality in Brazil. <i>Journal of Environmental Management</i> , 2021 , 297, 113381	7.9	4
98	Organic Matter Redox State Driven by Specific Sources in Mangrove Sediments: A Case Study from Peruvian Ecosystems. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 1438	2.4	
97	Geochemical background indicators within a tropical estuarine system influenced by a port-industrial complex. <i>Marine Pollution Bulletin</i> , 2020 , 161, 111794	6.7	5
96	Bacterial-derived nutrient and carbon source-sink behaviors in a sandy beach subterranean estuary. <i>Marine Pollution Bulletin</i> , 2020 , 160, 111570	6.7	7
95	Analysis of Po, Bi, and Pb in atmospheric and oceanic samples by simultaneously auto-plating Po and Bi onto a nickel disc. <i>Journal of Environmental Radioactivity</i> , 2020 , 220-221, 106301	2.4	4
94	Coastal carbon cycle changes following mangrove loss. <i>Limnology and Oceanography</i> , 2020 , 65, 2642-2656	4.8	13
93	Shrimp farming influence on carbon and nutrient accumulation within Peruvian mangroves sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2020 , 243, 106879	2.9	14
92	Increasing Rates of Carbon Burial in Southwest Florida Coastal Wetlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005349	3.7	15
91	Carbon and nutrient accumulation in mangrove sediments affected by multiple environmental changes. <i>Journal of Soils and Sediments</i> , 2020 , 20, 2504-2509	3.4	9

90	Reconstructing extreme climatic and geochemical conditions during the largest natural mangrove dieback on record. <i>Biogeosciences</i> , 2020 , 17, 4707-4726	4.6	9
89	Could the wild population of Large Yellow Croaker <i>Larimichthys crocea</i> (Richardson) in China be restored? A case study in Guanjingyang, Fujian, China. <i>Aquatic Living Resources</i> , 2020 , 33, 24	1.5	0
88	Elevated dissolved heavy metal discharge following rainfall downstream of intensive horticulture. <i>Applied Geochemistry</i> , 2020 , 113, 104490	3.5	10
87	Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. <i>Marine Geology</i> , 2020 , 429, 106317	3.3	18
86	Submarine groundwater discharge and associated nutrient and carbon inputs into Sydney Harbour (Australia). <i>Journal of Hydrology</i> , 2020 , 580, 124262	6	15
85	Land use impacts on benthic bioturbation potential and carbon burial in Brazilian mangrove ecosystems. <i>Limnology and Oceanography</i> , 2020 , 65, 2366-2376	4.8	11
84	Australian vegetated coastal ecosystems as global hotspots for climate change mitigation. <i>Nature Communications</i> , 2019 , 10, 4313	17.4	75
83	Significant nitrate attenuation in a mangrove-fringed estuary during a flood-chase experiment. <i>Environmental Pollution</i> , 2019 , 253, 1000-1008	9.3	27
82	Role of carbonate burial in Blue Carbon budgets. <i>Nature Communications</i> , 2019 , 10, 1106	17.4	57
81	Does Regional Development Influence Sedimentary Blue Carbon Stocks? A Case Study From Three Australian Estuaries. <i>Frontiers in Marine Science</i> , 2019 , 5,	4.5	3
80	Significant Organic Carbon Accumulation in Two Coastal Acid Sulfate Soil Wetlands. <i>Geophysical Research Letters</i> , 2019 , 46, 3245-3251	4.9	8
79	Carbon outwelling across the shelf following a massive mangrove dieback in Australia: Insights from radium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 253, 142-158	5.5	28
78	Nutrient and Trace Metal Fluxes into Estuarine Sediments Linked to Historical and Expanding Agricultural Activity (Hearnes Lake, Australia). <i>Estuaries and Coasts</i> , 2019 , 42, 944-957	2.8	16
77	Large variability in organic carbon and CaCO ₃ burial in seagrass meadows: a case study from three Australian estuaries. <i>Marine Ecology - Progress Series</i> , 2019 , 616, 211-218	2.6	10
76	Tidal wetland resilience to sea level rise increases their carbon sequestration capacity in United States. <i>Nature Communications</i> , 2019 , 10, 5434	17.4	26
75	Electrochemical characterization of mangrove sediments: A proposal of new proxies for organic matter oxidation. <i>Applied Geochemistry</i> , 2019 , 101, 42-49	3.5	2
74	Carbon outwelling and outgassing vs. burial in an estuarine tidal creek surrounded by mangrove and saltmarsh wetlands. <i>Limnology and Oceanography</i> , 2019 , 64, 996-1013	4.8	62
73	Carbon outwelling and emissions from two contrasting mangrove creeks during the monsoon storm season in Palau, Micronesia. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 218, 340-348	2.9	22

72	Submarine groundwater discharge revealed by ^{224}Ra and ^{223}Ra in Coffs Harbour, Australia. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019 , 319, 1193-1199	1.5	1
71	Spatial Variability of Organic Carbon, CaCO_3 and Nutrient Burial Rates Spanning a Mangrove Productivity Gradient in the Coastal Everglades. <i>Ecosystems</i> , 2019 , 22, 844-858	3.9	8
70	A global map of mangrove forest soil carbon at 30 m spatial resolution. <i>Environmental Research Letters</i> , 2018 , 13, 055002	6.2	139
69	Avoiding timescale bias in assessments of coastal wetland vertical change. <i>Limnology and Oceanography</i> , 2018 , 63, S477-S495	4.8	43
68	Radionuclide Enrichment Near Coal Processing in Southern Brazil. <i>Radiochemistry</i> , 2018 , 60, 215-220	0.9	2
67	Beyond burial: lateral exchange is a significant atmospheric carbon sink in mangrove forests. <i>Biology Letters</i> , 2018 , 14,	3.6	70
66	Forest migration and carbon sources to Iranian mangrove soils. <i>Journal of Arid Environments</i> , 2018 , 157, 57-65	2.5	9
65	INFLUENCE OF RIVER WATER DIVERSION ON HYDROGEOCHEMISTRY AND REE DISTRIBUTION, RIO DE JANEIRO, BRAZIL. <i>Carpathian Journal of Earth and Environmental Sciences</i> , 2018 , 13, 453-464	2.1	4
64	Carbon accumulation and storage capacity in mangrove sediments three decades after deforestation within a eutrophic bay. <i>Marine Pollution Bulletin</i> , 2018 , 126, 275-280	6.7	19
63	Habitat rehabilitation in the Detroit River Area of Concern. <i>Aquatic Ecosystem Health and Management</i> , 2018 , 21, 458-469	1.4	6
62	Mangrove mortality in a changing climate: An overview. <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 215, 241-249	2.9	79
61	Factors influencing organic carbon accumulation in mangrove ecosystems. <i>Biology Letters</i> , 2018 , 14,	3.6	31
60	Auto-HPGe, an autosampler for gamma-ray spectroscopy using high-purity germanium (HPGe) detectors and heavy shields. <i>HardwareX</i> , 2018 , 4, e00040	2.7	9
59	Tidally driven sulfidic conditions in Peruvian mangrove sediments. <i>Geo-Marine Letters</i> , 2018 , 38, 457-465	1.9	8
58	Radon-traced pore-water as a potential source of CO_2 and CH_4 to receding black and clear water environments in the Amazon Basin. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 375-383	7.9	6
57	Historic carbon burial spike in an Amazon floodplain lake linked to riparian deforestation near Santarém, Brazil. <i>Biogeosciences</i> , 2018 , 15, 447-455	4.6	7
56	Carbon accumulation in Amazonian floodplain lakes: A significant component of Amazon budgets?. <i>Limnology and Oceanography Letters</i> , 2017 , 2, 29-35	7.9	19
55	Hydrological controls on the biogeochemical dynamics in a Peruvian mangrove forest. <i>Hydrobiologia</i> , 2017 , 803, 69-86	2.4	11

54	Changes in organic carbon accumulation driven by mangrove expansion and deforestation in a New Zealand estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 192, 108-116	2.9	43
53	Blue carbon oxidation revealed by radiogenic and stable isotopes in a mangrove system. <i>Geophysical Research Letters</i> , 2017 , 44, 4889-4896	4.9	41
52	Mapping short-lived radium isotopes in estuarine residential canals (Gold Coast, Australia). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 313, 409-418	1.5	2
51	Radium-derived porewater exchange and dissolved N and P fluxes in mangroves. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 200, 295-309	5.5	32
50	Uranium export from a sandy beach subterranean estuary in Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 198, 204-212	2.9	2
49	Partitioning the relative contributions of organic matter and mineral sediment to accretion rates in carbonate platform mangrove soils. <i>Marine Geology</i> , 2017 , 390, 170-180	3.3	33
48	Mangrove outwelling is a significant source of oceanic exchangeable organic carbon. <i>Limnology and Oceanography Letters</i> , 2017 , 2, 1-8	7.9	30
47	High porewater exchange in a mangrove-dominated estuary revealed from short-lived radium isotopes. <i>Journal of Hydrology</i> , 2017 , 553, 188-198	6	34
46	Global patterns in mangrove soil carbon stocks and losses. <i>Nature Climate Change</i> , 2017 , 7, 523-528	21.4	276
45	Mangrove sediments reveal records of development during the previous century (Coffs Creek estuary, Australia). <i>Marine Pollution Bulletin</i> , 2017 , 122, 441-445	6.7	26
44	240+239Pu depositional signatures as a viable geochronological tool in the Amazon Basin. <i>Geochronometria</i> , 2017 , 44, 142-149	1	2
43	Influence of Anthropogenic Activities on Trace Metal Accumulation in Brazilian Mangrove Sediments. <i>Revista Virtual De Quimica</i> , 2017 , 9, 2017-2031	1.3	7
42	Seagrass, mangrove and saltmarsh sedimentary carbon stocks in an urban estuary; Coffs Harbour, Australia. <i>Regional Studies in Marine Science</i> , 2016 , 8, 1-6	1.5	24
41	Radium isotope ((223)Ra, (224)Ra, (226)Ra and (228)Ra) distribution near Brazil's largest port, Paranaguá Bay, Brazil. <i>Marine Pollution Bulletin</i> , 2016 , 111, 443-448	6.7	7
40	Examining (239+240)Pu, (210)Pb and historical events to determine carbon, nitrogen and phosphorus burial in mangrove sediments of Moreton Bay, Australia. <i>Journal of Environmental Radioactivity</i> , 2016 , 151 Pt 3, 623-9	2.4	48
39	Mercury dilution by autochthonous organic matter in a fertilized mangrove wetland. <i>Environmental Pollution</i> , 2016 , 213, 30-35	9.3	26
38	The contribution of denitrification and burial to the nitrogen budgets of three geomorphically distinct Australian estuaries: Importance of seagrass habitats. <i>Limnology and Oceanography</i> , 2016 , 61, 1144-1156	4.8	36
37	Are global mangrove carbon stocks driven by rainfall?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2600-2609	3.7	106

36	Manganese and iron release from mangrove porewaters: A significant component of oceanic budgets?. <i>Marine Chemistry</i> , 2016 , 184, 43-52	3.7	27
35	Groundwater discharge into an estuary using spatially distributed radon time series and radium isotopes. <i>Journal of Hydrology</i> , 2015 , 528, 703-719	6	78
34	Arsenic fractionation in estuarine sediments: Does coastal eutrophication influence As behavior?. <i>Marine Pollution Bulletin</i> , 2015 , 96, 496-501	6.7	14
33	Dissolved iron exports from an estuary surrounded by coastal wetlands: Can small estuaries be a significant source of Fe to the ocean?. <i>Marine Chemistry</i> , 2015 , 176, 75-82	3.7	33
32	Spatial and temporal variability of carbon dioxide and methane fluxes over semi-diurnal and spring-neap-spring timescales in a mangrove creek. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 150, 211-225	5.5	122
31	Elevated rates of organic carbon, nitrogen, and phosphorus accumulation in a highly impacted mangrove wetland. <i>Geophysical Research Letters</i> , 2014 , 41, 2475-2480	4.9	88
30	Temporal variability of carbon and nutrient burial, sediment accretion, and mass accumulation over the past century in a carbonate platform mangrove forest of the Florida Everglades. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 2032-2048	3.7	69
29	Hydrologic fragmentation-induced eutrophication in Dove Sound, Upper Florida Keys, USA. <i>Environmental Earth Sciences</i> , 2014 , 71, 4387-4395	2.9	8
28	Recent organic carbon accumulation (~100 years) along the Cabo Frio, Brazil upwelling region. <i>Continental Shelf Research</i> , 2014 , 75, 68-75	2.4	24
27	Distribution of trace metals in stream sediments along the Trans-Amazonian Federal Highway, Pará State, Brazil. <i>Journal of South American Earth Sciences</i> , 2014 , 54, 182-195	2	7
26	Mercury deposition during the previous century in an upwelling region; Cabo Frio, Brazil. <i>Marine Pollution Bulletin</i> , 2013 , 76, 389-93	6.7	15
25	Sediment accretion and organic carbon burial relative to sea-level rise and storm events in two mangrove forests in Everglades National Park. <i>Catena</i> , 2013 , 104, 58-66	5.8	102
24	Rare Earth Element and Radionuclide Distribution in Surface Sediments Along an Estuarine System Affected by Fertilizer Industry Contamination. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	19
23	Organic matter content and particle size modifications in mangrove sediments as responses to sea level rise. <i>Marine Environmental Research</i> , 2012 , 77, 150-5	3.3	43
22	Radium mass balance and submarine groundwater discharge in Sepetiba Bay, Rio de Janeiro State, Brazil. <i>Journal of South American Earth Sciences</i> , 2012 , 39, 44-51	2	9
21	Pyritization of trace metals in mangrove sediments. <i>Environmental Earth Sciences</i> , 2012 , 67, 1757-1762	2.9	18
20	Organic carbon burial rates in mangrove sediments: Strengthening the global budget. <i>Global Biogeochemical Cycles</i> , 2012 , 26,	5.9	227
19	Elevated concentrations of dissolved Ba, Fe and Mn in a mangrove subterranean estuary: Consequence of sea level rise?. <i>Continental Shelf Research</i> , 2012 , 43, 86-94	2.4	47

18	Major element concentrations in Mangrove Pore Water, Sepetiba Bay, Brazil. <i>Brazilian Journal of Oceanography</i> , 2012 , 60, 33-39	1.8	1
17	A historical evaluation of anthropogenic impact in coastal ecosystems by geochemical signatures. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 120-125	1.5	10
16	Lead-210 and Beryllium-7 fallout rates on the southeastern coast of Brazil. <i>Journal of Environmental Radioactivity</i> , 2011 , 102, 1122-5	2.4	20
15	Anthropogenic source assessment of 226Ra and 210Pb in a sediment core from the Cubatão River estuary (SE Brazil). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 287, 729-732	1.5	4
14	Origin of rare earth element anomalies in mangrove sediments, Sepetiba Bay, SE Brazil: used as geochemical tracers of sediment sources. <i>Environmental Earth Sciences</i> , 2011 , 64, 1257-1267	2.9	15
13	Synthesis of magnesite at low temperature. <i>Carbonates and Evaporites</i> , 2011 , 26, 213-215	1.3	11
12	Organic carbon accumulation in Brazilian mangal sediments. <i>Journal of South American Earth Sciences</i> , 2010 , 30, 189-192	2	27
11	Mangrove forest sedimentation and its reference to sea level rise, Cananeia, Brazil. <i>Environmental Earth Sciences</i> , 2010 , 60, 1291-1301	2.9	41
10	Intertidal mangrove mudflat 240+239Pu signatures, confirming a 210Pb geochronology on the southeastern coast of Brazil. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 283, 593-596	1.5	23
9	Organic carbon burial in a mangrove forest, margin and intertidal mud flat. <i>Estuarine, Coastal and Shelf Science</i> , 2010 , 90, 168-172	2.9	110
8	Recent 137Cs deposition in sediments of Admiralty Bay, Antarctica. <i>Journal of Environmental Radioactivity</i> , 2010 , 101, 421-4	2.4	7
7	Eutrophication history of Guanabara Bay (SE Brazil) recorded by phosphorus flux to sediments from a degraded mangrove area. <i>Marine Pollution Bulletin</i> , 2009 , 58, 1750-4	6.7	42
6	Recent Sediment Accumulation in a Mangrove Forest and Its Relevance to Local Sea-Level Rise (Ilha Grande, Brazil). <i>Journal of Coastal Research</i> , 2008 , 242, 533-536	0.6	36
5	Coupled anthropogenic anomalies of radionuclides and major elements in estuarine sediments. <i>Journal of Environmental Radioactivity</i> , 2008 , 99, 1329-34	2.4	13
4	Contrasting mercury and manganese deposition in a mangrove-dominated estuary (Guaratuba Bay, Brazil). <i>Geo-Marine Letters</i> , 2008 , 28, 239-244	1.9	10
3	Mercury flux to estuarine sediments, derived from Pb-210 and Cs-137 geochronologies (Guaratuba Bay, Brazil). <i>Marine Pollution Bulletin</i> , 2006 , 52, 1085-9	6.7	61
2	Groundwater Carbon Exports Exceed Sediment Carbon Burial in a Salt Marsh. <i>Estuaries and Coasts</i> , 2006 , 29, 1085-9	2.8	2
1	Species-specific spatial and temporal variations of foliar nitrogen and phosphorus in mangrove plants. <i>Marine Ecology - Progress Series</i> , 2006 , 328, 1-10	2.6	2

