Hilary A Kennedy

List of Publications by Year
in descending order

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112 papers	7,816 citations	71102 41 h-index	54911 84 g-index
115 all docs	115 docs citations	115 times ranked	6903 citing authors

#	Article	IF	Citations
1	Seagrass ecosystems as a globally significant carbon stock. Nature Geoscience, 2012, 5, 505-509.	12.9	1,406
2	Seagrass sediments as a global carbon sink: Isotopic constraints. Global Biogeochemical Cycles, 2010, 24, .	4.9	495
3	The future of Blue Carbon science. Nature Communications, 2019, 10, 3998.	12.8	406
4	Assessing the capacity of seagrass meadows for carbon burial: Current limitations and future strategies. Ocean and Coastal Management, 2013, 83, 32-38.	4.4	264
5	Blue carbon as a natural climate solution. Nature Reviews Earth & Environment, 2021, 2, 826-839.	29.7	261
6	Calcium carbonate as ikaite crystals in Antarctic sea ice. Geophysical Research Letters, 2008, 35, .	4.0	204
7	The effect of acidification on the determination of organic carbon, total nitrogen and their stable isotopic composition in algae and marine sediment. Rapid Communications in Mass Spectrometry, 2005, 19, 1063-1068.	1.5	171
8	Environmental and biological controls on elemental (Mg/Ca, Sr/Ca and Mn/Ca) ratios in shells of the king scallop Pecten maximus. Geochimica Et Cosmochimica Acta, 2006, 70, 5119-5133.	3.9	144
9	Individual variability in diel vertical migration of a marine copepod: Why some individuals remain at depth when others migrate. Limnology and Oceanography, 2001, 46, 2050-2054.	3.1	128
10	Experimental evidence for carbonate precipitation and CO2 degassing during sea ice formation. Geochimica Et Cosmochimica Acta, 2004, 68, 1749-1761.	3.9	128
11	Iodine diagenesis in pelagic deep-sea sediments. Geochimica Et Cosmochimica Acta, 1987, 51, 2489-2504.	3.9	124
12	Sediment deposition and production in SE-Asia seagrass meadows. Estuarine, Coastal and Shelf Science, 2003, 56, 909-919.	2.1	121
13	Age, growth rate and season of recruitment of Pinna nobilis (L) in the Croatian Adriatic determined from Mg:Ca and Sr:Ca shell profiles. Journal of Experimental Marine Biology and Ecology, 2004, 299, 1-16.	1.5	118
14	Organic carbon sources to SE Asian coastal sediments. Estuarine, Coastal and Shelf Science, 2004, 60, 59-68.	2.1	117
15	Metal accumulation rates in northwest Atlantic pelagic sediments. Geochimica Et Cosmochimica Acta, 1984, 48, 1935-1948.	3.9	115
16	Food sources, behaviour, and distribution of hydrothermal vent shrimps at the Mid-Atlantic Ridge. Journal of the Marine Biological Association of the United Kingdom, 2000, 80, 485-499.	0.8	113
17	Age and growth of the fan mussel Pinna nobilis from south-east Spanish Mediterranean seagrass () Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	110
18	The Mediterranean climate as a template for Mediterranean marine ecosystems: the example of the northeast Spanish littoral. Progress in Oceanography, 1999, 44, 245-270.	3.2	108

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19	Role of carbonate burial in Blue Carbon budgets. Nature Communications, 2019, 10, 1106.	12.8	105
20	Seagrass meadows as a globally significant carbonate reservoir. Biogeosciences, 2015, 12, 4993-5003.	3.3	104
21	Measuring the role of seagrasses in regulating sediment surface elevation. Scientific Reports, 2017, 7, 11917.	3.3	104
22	Sea ice contribution to the airâ€“sea CO₂ exchange in the Arctic and Southern Oceans. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 823.	1.6	102
23	Dissolved organic matter in Antarctic sea ice. Annals of Glaciology, 2001, 33, 297-303.	1.4	98
24	Community metabolism and carbon budget along a gradient of seagrass(Cymodocea nodosa) colonization. Limnology and Oceanography, 2004, 49, 1642-1651.	3.1	97
25	Mg/Ca, Sr/Ca, and stable-isotope (Î´18O and Î´13C) ratio profiles from the fan musselPinna nobilis: Seasonal records and temperature relationships. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	87
26	Analysis of total and organic carbon and total nitrogen in settling oceanic particles and a marine sediment: an interlaboratory comparison. Marine Chemistry, 1998, 60, 203-216.	2.3	84
27	Particulate organic matter in Antarctic summer sea ice: concentration and stable isotopic composition. Marine Ecology - Progress Series, 2002, 238, 1-13.	1.9	83
28	Biogeochemical composition of natural sea ice brines from the Weddell Sea during early austral summer. Limnology and Oceanography, 2007, 52, 1809-1823.	3.1	77
29	Behaviour of dissolved organic matter and inorganic nutrients during experimental sea-ice formation. Annals of Glaciology, 2001, 33, 317-321.	1.4	75
30	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
31	Isotopic partitioning between scallop shell calcite and seawater: effect of shell growth rate. Geochimica Et Cosmochimica Acta, 2002, 66, 1727-1737.	3.9	74
32	Temporal and spatial variation of sulfide invasion in eelgrass (Zostera marina) as reflected by its sulfur isotopic composition. Limnology and Oceanography, 2006, 51, 2308-2318.	3.1	71
33	Iodine diagenesis in non-pelagic deep-sea sediments. Geochimica Et Cosmochimica Acta, 1987, 51, 2505-2514.	3.9	67
34	Harnessing the climate mitigation, conservation and poverty alleviation potential of seagrasses: prospects for developing blue carbon initiatives and payment for ecosystem service programmes. Frontiers in Marine Science, 2015, 2, .	2.5	65
35	The physical and chemical environment and changes in community structure associated with bloom evolution: the Joint Global Flux Study North Atlantic Bloom Experiment. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 347-368.	1.4	64
36	Decomposition of mangrove roots: Effects of location, nutrients, species identity and mix in a Kenyan forest. Estuarine, Coastal and Shelf Science, 2010, 88, 135-142.	2.1	62

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37	Oxygen and carbon stable isotopic profiles of the fan mussel, Pinna nobilis , and reconstruction of sea surface temperatures in the Mediterranean. Marine Biology, 2001, 139, 1115-1124.	1.5	60
38	Experimental investigation into partitioning of stable isotopes between scallop (Pecten maximus) shell calcite and sea water. Palaeogeography, Palaeoclimatology, Palaeoecology, 2002, 185, 163-174.	2.3	55
39	Role of microbial mats in Sulaibikhat Bay (Kuwait) mudflat food webs: evidence from Î´13C analysis. Marine Ecology - Progress Series, 2006, 308, 27-36.	1.9	54
40	Sources of organic matter in seagrass-colonized sediments: A stable isotope study of the silt and clay fraction from Posidonia oceanica meadows in the western Mediterranean. Organic Geochemistry, 2005, 36, 949-961.	1.8	51
41	Surface ice and gap layers in Antarctic sea ice: highly productive habitats. Marine Ecology - Progress Series, 2004, 277, 1-12.	1.9	49
42	Inter- and intra-specimen variability masks reliable temperature control on shell Mg/Ca ratios in laboratory- and field-cultured <i>Mytilus edulis</i> and <i>Pecten maximus</i> (bivalvia). Biogeosciences, 2008, 5, 1245-1258.	3.3	46
43	Biogeochemistry of platelet ice: its influence on particle flux under fast ice in the Weddell Sea, Antarctica. Polar Biology, 2001, 24, 486-496.	1.2	44
44	Ion microprobe assessment of the heterogeneity of Mg/Ca, Sr/Ca and Mn/Ca ratios in <i>Pecten maximus</i> and <i>Mytilus edulis</i> (bivalvia) shell calcite precipitated at constant temperature. Biogeosciences, 2009, 6, 1209-1227.	3.3	43
45	Dissolved carbohydrates in Antarctic sea ice. Antarctic Science, 2001, 13, 119-125.	0.9	42
46	Marine production in the Congo-influenced SE Atlantic over the past 30,000Âyears: A novel dinoflagellate-cyst based transfer function approach. Marine Micropaleontology, 2008, 68, 198-222.	1.2	42
47	Ikaite Abundance Controlled by Porewater Phosphorus Level: Potential Links to Dust and Productivity. Journal of Geology, 2015, 123, 269-281.	1.4	40
48	An ikaite record of late Holocene climate at the Antarctic Peninsula. Earth and Planetary Science Letters, 2012, 325-326, 108-115.	4.4	39
49	Losses of Soil Organic Carbon with Deforestation in Mangroves of Madagascar. Ecosystems, 2021, 24, 1-19.	3.4	39
50	Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. Elementa, 2017, 5, .	3.2	39
51	Climate action requires new accounting guidance and governance frameworks to manage carbon in shelf seas. Nature Communications, 2020, 11, 4599.	12.8	35
52	Operationalizing marketable blue carbon. One Earth, 2022, 5, 485-492.	6.8	34
53	Nutrient dynamics and ecosystem metabolism in the Bay of Blanes (NW Mediterranean). Biogeochemistry, 2005, 73, 303-323.	3.5	33
54	The potential of combined Mg/Ca and Î´18O measurements within the shell of the bivalve Pecten maximus to estimate seawater Î´18O composition. Chemical Geology, 2012, 291, 286-293.	3.3	32

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55	Variations in the isotopic composition of particulate organic carbon in surface waters along an 88Â°W transect from 67Â°S to 54Â°S. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 1109-1122.	1.4	31
56	Different energy sources for three symbiont-dependent bivalve molluscs at the Logatchev hydrothermal site (Mid-Atlantic Ridge). Journal of the Marine Biological Association of the United Kingdom, 2001, 81, 655-661.	0.8	31
57	Seasonal and spatial variation in the organic carbon and nitrogen concentration and their stable isotopic composition in Zostera marina (Denmark). Limnology and Oceanography, 2005, 50, 1084-1095.	3.1	31
58	Outwelling from arid mangrove systems is sustained by inwelling of seagrass productivity. Marine Ecology - Progress Series, 2014, 507, 125-137.	1.9	31
59	Future Mangrove Carbon Storage Under Climate Change and Deforestation. Frontiers in Marine Science, 2022, 9, .	2.5	31
60	An autonomous benthic lander:. Continental Shelf Research, 2001, 21, 859-877.	1.8	30
61	Diet and association of Pontonia pinnophylax occurring in Pinna nobilis: insights from stable isotope analysis. Journal of the Marine Biological Association of the United Kingdom, 2001, 81, 177-178.	0.8	30
62	Ikaite solubility in seawater-derived brines at 1atm and sub-zero temperatures to 265K. Geochimica Et Cosmochimica Acta, 2013, 109, 241-253.	3.9	30
63	Sea ice contribution to the airâ€“sea CO₂ exchange in the Arctic and Southern Oceans. Tellus, Series B: Chemical and Physical Meteorology, 2011, 63, .	1.6	30
64	Light-dependence of the metabolic balance of a highly productive Philippine seagrass community. Journal of Experimental Marine Biology and Ecology, 2005, 316, 55-67.	1.5	29
65	Potential of ikaite to record the evolution of oceanic Î´18O. Geology, 2006, 34, 497.	4.4	29
66	Dissolved organic carbon in sediments from the eastern North Atlantic. Marine Chemistry, 2002, 79, 37-47.	2.3	28
67	The effect of biological activity, CaCO₃ mineral dynamics, and CO₂ degassing in the inorganic carbon cycle in sea ice in late winterâ€early spring in the Weddell Sea, Antarctica. Journal of Geophysical Research, 2012, 117, .	3.3	27
68	Are mangroves in arid environments isolated systems? Life-history and evidence of dietary contribution from inwelling in a mangrove-resident shrimp species. Estuarine, Coastal and Shelf Science, 2013, 124, 56-63.	2.1	26
69	Inorganic carbon removal and isotopic enrichment in Antarctic sea ice gap layers during early austral summer. Marine Ecology - Progress Series, 2009, 386, 15-27.	1.9	26
70	Kinetics of ikaite precipitation and dissolution in seawater-derived brines at sub-zero temperatures to 265 K. Geochimica Et Cosmochimica Acta, 2014, 140, 199-211.	3.9	25
71	Mirabilite solubility in equilibrium sea ice brines. Geochimica Et Cosmochimica Acta, 2016, 182, 40-54.	3.9	24
72	Feeding ecology of the grooved tiger shrimp Penaeus semisulcatus De Haan (Decapoda: Penaeidae) in inshore waters of Qatar, Arabian Gulf. Marine Biology, 2007, 150, 627-637.	1.5	23

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73	Mangrove carbon stocks and biomass partitioning in an extreme environment. Estuarine, Coastal and Shelf Science, 2020, 244, 106940.	2.1	23
74	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. Marine Chemistry, 2014, 166, 59-69.	2.3	21
75	The effect of water management on extensive aquaculture food webs in the reconstructed wetlands of the DoÃ±ana Natural Park, Southern Spain. Aquaculture, 2015, 448, 451-463.	3.5	21
76	On the relative constancy of iodate and totalâ€iodine concentrations accompanying phytoplankton blooms initiated in mesocosm experiments in Antarctica. Limnology and Oceanography, 2003, 48, 1569-1574.	3.1	20
77	Stable isotopic analyses of modern benthic foraminifera from seasonally stratified shelf seas: disequilibria and the 'seasonal effect'. Holocene, 2004, 14, 747-758.	1.7	20
78	Using variation in the chemical and stable isotopic composition of Zostera noltii to assess nutrient dynamics in a temperate seagrass meadow. Organic Geochemistry, 2006, 37, 1343-1358.	1.8	20
79	The influence of shell growth rate on striae deposition in the scallop Pecten maximus. Journal of the Marine Biological Association of the United Kingdom, 2002, 82, 621-623.	0.8	19
80	The effects of megafaunal burrows on radiotracer profiles and organic composition in deep-sea sediments: preliminary results from two sites in the bathyal north-east Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1-13.	1.4	19
81	The sediment carbon stocks of intertidal seagrass meadows in Scotland. Estuarine, Coastal and Shelf Science, 2021, 258, 107442.	2.1	19
82	Manganese in the shell of the bivalve Mytilus edulis: Seawater Mn or physiological control?. Geochimica Et Cosmochimica Acta, 2016, 194, 266-278.	3.9	18
83	Characterization of meta-Cresol Purple for spectrophotometric pH measurements in saline and hypersaline media at sub-zero temperatures. Scientific Reports, 2017, 7, 2481.	3.3	18
84	Holocene shelf sea evolution offshore northeast England. Marine Geology, 2002, 191, 147-164.	2.1	17
85	Short-term biogenic particle flux under late spring sea ice in the western Weddell Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1024-1039.	1.4	17
86	Source, timing, frequency and flux of iceâ€rafted detritus to the Northeast Atlantic margin, 30â€“12â€ka: testing the Heinrich precursor hypothesis. Boreas, 2010, 39, 576-591.	2.4	17
87	Impact of vertical mixing on sea surface pCO₂ in temperate seasonally stratified shelf seas. Journal of Geophysical Research: Oceans, 2014, 119, 3868-3882.	2.6	17
88	An investigation of mineral dynamics in frozen seawater brines by direct measurement with synchrotron X â€ray powder diffraction. Journal of Geophysical Research: Oceans, 2015, 120, 5686-5697.	2.6	17
89	The measurement of pH in saline and hypersaline media at sub-zero temperatures: Characterization of Tris buffers. Marine Chemistry, 2016, 184, 11-20.	2.3	16
90	Integrating blue: How do we make nationally determined contributions work for both blue carbon and local coastal communities?. Ambio, 2022, 51, 1978-1993.	5.5	16

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91	A question of standards: Adapting carbon and other PES markets to work for community seagrass conservation. Marine Policy, 2021, 129, 104574.	3.2	15
92	Stratification and the distribution of phytoplankton, nutrients, inorganic carbon, and sulfur in the surface waters of Weddell Sea leads. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 988-999.	1.4	14
93	Sources of primary production supporting food webs in an arid coastal embayment. Marine Biology, 2012, 159, 1753-1762.	1.5	14
94	Flow regime in a restored wetland determines trophic links and species composition in the aquatic macroinvertebrate community. Science of the Total Environment, 2015, 503-504, 241-250.	8.0	14
95	Feeding on intertidal microbial mats by postlarval tiger shrimp, Penaeus semisulcatus De Haan. Marine Biology, 2009, 156, 2001-2009.	1.5	13
96	A technique for the in situ assessment of the vertical nitrogen flux caused by the diel vertical migration of zooplankton. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1085-1089.	1.4	11
97	The effect of mirabilite precipitation on the absolute and practical salinities of sea ice brines. Marine Chemistry, 2016, 184, 21-31.	2.3	11
98	The stoichiometric dissociation constants of carbonic acid in seawater brines from 298 to 267 K. Geochimica Et Cosmochimica Acta, 2018, 220, 55-70.	3.9	11
99	Dynamics of estuarine drift macroalgae: growth cycles and contributions to sediments in shallow areas. Marine Ecology - Progress Series, 2017, 570, 41-55.	1.9	10
100	Response of coastal Antarctic phytoplankton to solar radiation and ammonium manipulation: An in situ mesocosm experiment. Journal of Geophysical Research, 2009, 114, .	3.3	9
101	Extreme 15N Depletion in Seagrasses. Estuaries and Coasts, 2016, 39, 1709-1723.	2.2	8
102	Gypsum and hydrohalite dynamics in sea ice brines. Geochimica Et Cosmochimica Acta, 2017, 213, 17-34.	3.9	8
103	Rates of organic carbon oxidation in deep sea sediments in the eastern North Atlantic from pore water profiles of O2 and the Î´13C of dissolved inorganic carbon. Marine Geology, 2004, 212, 97-111.	2.1	6
104	Isolation of ammonium-N as 1-sulfonato-iso-indole for measurement of?15N. Rapid Communications in Mass Spectrometry, 2003, 17, 1099-1106.	1.5	5
105	Decreasing carbonate load of seagrass leaves with increasing latitude. Aquatic Botany, 2019, 159, 103147.	1.6	3
106	A slow-cooling-ratein situcell for long-duration studies of mineral precipitation in cold aqueous environments on Earth and other planetary bodies. Journal of Applied Crystallography, 2018, 51, 1197-1210.	4.5	1
107	The atmospheric carbon sequestration potential of man-made tidal lagoons. Continental Shelf Research, 2019, 181, 90-102.	1.8	1
108	Laboratory exploration of mineral precipitates from Europa's subsurface ocean. Journal of Applied Crystallography, 2021, 54, 1455-1479.	4.5	1

#	Article	IF	Citations
109	The puzzling existence of arid mangroves - what sustains Qatar mangroves?. Qscience Proceedings, 2015, , .	0.0	0
110	Biogeochemistry of platelet ice: its influence on particle flux under fast ice in the Weddell Sea, Antarctica. , 2002, , 169-179.		0
111	New facility for long-duration experiments at Diamond Light Source. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s422-s422.	0.1	0
112	The Calcium Carbonate Cycle in Seagrass Ecosystems. , 2018, , 107-119.		0