

Hajime Kayanne

List of Publications by Year in descending order

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102
papers

4,182
citations

87888

38
h-index

123424

61
g-index

104
all docs

104
docs citations

104
times ranked

3902
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial community shift from hard to soft corals in acidified water. <i>Nature Climate Change</i> , 2013, 3, 683-687.	18.8	177
2	Rapid direct determination of organic carbon and nitrogen in carbonate-bearing sediments with a Yanaco MT-5 CHN analyzer. <i>Limnology and Oceanography</i> , 1995, 40, 1001-1005.	3.1	163
3	Diurnal Changes in the Partial Pressure of Carbon Dioxide in Coral Reef Water. <i>Science</i> , 1995, 269, 214-216.	12.6	151
4	Larval survivorship, competency periods and settlement of two brooding corals, <i>Heliopora coerulea</i> and <i>Pocillopora damicornis</i> . <i>Marine Biology</i> , 2002, 141, 39-46.	1.5	137
5	Recovery of coral populations after the 1998 bleaching on Shiraho Reef, in the southern Ryukyus, NW Pacific. <i>Marine Ecology - Progress Series</i> , 2002, 239, 93-103.	1.9	132
6	Atoll island vulnerability to flooding and inundation revealed by historical reconstruction: Fongafale Islet, Funafuti Atoll, Tuvalu. <i>Global and Planetary Change</i> , 2007, 57, 407-416.	3.5	131
7	Fine-scale mapping of land-derived nitrogen in coral reefs by $\delta^{15}\text{N}$ in macroalgae. <i>Limnology and Oceanography</i> , 2002, 47, 1405-1416.	3.1	129
8	Validation of degree heating weeks as a coral bleaching index in the northwestern Pacific. <i>Coral Reefs</i> , 2017, 36, 63-70.	2.2	113
9	Carbon and nitrogen stable isotopes of primary producers in coral reef ecosystems. <i>Limnology and Oceanography</i> , 1995, 40, 617-621.	3.1	110
10	Net uptake of atmospheric CO_2 by coastal submerged aquatic vegetation. <i>Global Change Biology</i> , 2014, 20, 1873-1884.	9.5	103
11	The mechanism of production enhancement in coral reef carbonate systems: model and empirical results. <i>Sedimentary Geology</i> , 1995, 99, 259-280.	2.1	102
12	Taking the metabolic pulse of the world's coral reefs. <i>PLoS ONE</i> , 2018, 13, e0190872.	2.5	96
13	Heavy metal contamination of coastal lagoon sediments: Fongafale Islet, Funafuti Atoll, Tuvalu. <i>Chemosphere</i> , 2014, 95, 628-634.	8.2	95
14	Significance of groundwater nitrogen discharge into coral reefs at Ishigaki Island, southwest of Japan. <i>Coral Reefs</i> , 2002, 21, 346-356.	2.2	90
15	Seasonal and bleaching-induced changes in coral reef metabolism and CO_2 flux. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	89
16	Holocene sea-level changes and barrier reef formation on an oceanic island, Palau Islands, western Pacific. <i>Sedimentary Geology</i> , 2002, 150, 47-60.	2.1	83
17	Salinity records for the 1997-98 El Niño from Western Pacific corals. <i>Geophysical Research Letters</i> , 2002, 29, 35-1.	4.0	82
18	Designing a blueprint for coral reef survival. <i>Biological Conservation</i> , 2021, 257, 109107.	4.1	82

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19	Evaluation of various satellite sensors for waterline extraction in a coral reef environment: Majuro Atoll, Marshall Islands. <i>Geomorphology</i> , 2006, 82, 398-411.	2.6	81
20	Larval dispersal, recruitment, and adult distribution of the brooding stony octocoral <i>Heliopora coerulea</i> on Ishigaki Island, southwest Japan. <i>Coral Reefs</i> , 2003, 22, 188-196.	2.2	69
21	Anatomy of a Modern Coral Reef Flat: A Recorder of Storms and Uplift in the Late Holocene. <i>Journal of Sedimentary Research</i> , 2001, 71, 295-304.	1.6	65
22	Corals mass-cultured from eggs and transplanted as juveniles to their native, remote coral reef. <i>Marine Ecology - Progress Series</i> , 2011, 436, 161-168.	1.9	65
23	Distribution and sediment production of large benthic foraminifers on reef flats of the Majuro Atoll, Marshall Islands. <i>Coral Reefs</i> , 2009, 28, 29-45.	2.2	64
24	Analysis of the seawater CO ₂ system in the barrier reef-lagoon system of Palau using total alkalinity and dissolved inorganic carbon diagrams. <i>Limnology and Oceanography</i> , 2006, 51, 1614-1628.	3.1	61
25	Lagoonal facies, ages, and sedimentation in three atolls in the Pacific. <i>Marine Geology</i> , 2002, 185, 233-247.	2.1	56
26	Holocene fringing reefs and sea-level change in Mangaia Island, Southern Cook Islands. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1988, 68, 177-188.	2.3	54
27	of seagrass leaves for monitoring anthropogenic nutrient increases in coral reef ecosystems. <i>Marine Pollution Bulletin</i> , 2003, 46, 452-458.	5.0	53
28	Mode shift in the Indian Ocean climate under global warming stress. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	53
29	Holocene coral reef development under windward and leeward locations at Ishigaki Island, Ryukyu Islands, Japan. <i>Sedimentary Geology</i> , 2009, 214, 62-73.	2.1	51
30	Influence of wave energy on Holocene coral reef development: an example from Ishigaki Island, Ryukyu Islands, Japan. <i>Sedimentary Geology</i> , 2003, 159, 27-41.	2.1	46
31	Intensified mid-Holocene Asian monsoon recorded in corals from Kikai Island, subtropical northwestern Pacific. <i>Quaternary Research</i> , 2007, 67, 204-214.	1.7	46
32	Impacts of multiple disturbances on coral communities at Ishigaki Island, Okinawa, Japan, during a 15 year survey. <i>Marine Ecology - Progress Series</i> , 2014, 509, 171-180.	1.9	46
33	Water circulation in a fringing reef located in a monsoon area: Kabira Reef, Ishigaki Island, Southwest Japan. <i>Coral Reefs</i> , 1998, 17, 89-99.	2.2	45
34	Threshold of carbonate saturation state determined by CO ₂ control experiment. <i>Biogeosciences</i> , 2012, 9, 1441-1450.	3.3	45
35	Rapid settlement of Majuro Atoll, central Pacific, following its emergence at 2000 years CalBP. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	42
36	Organic carbon flux in Shiraho coral reef (Ishigaki Island, Japan). <i>Marine Ecology - Progress Series</i> , 2002, 232, 129-140.	1.9	42

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37	A rapid, precise potentiometric determination of total alkalinity in seawater by a newly developed flow-through analyzer designed for coastal regions. <i>Marine Chemistry</i> , 2004, 85, 75-87.	2.3	41
38	Reconstruction of lake-level and climate changes in Lake Qarun, Egypt, during the last 7000years. <i>Journal of Great Lakes Research</i> , 2010, 36, 318-327.	1.9	39
39	High gas transfer velocity in coastal regions with high energy dissipation rates. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
40	Human impacts on large benthic foraminifers near a densely populated area of Majuro Atoll, Marshall Islands. <i>Marine Pollution Bulletin</i> , 2010, 60, 1279-1287.	5.0	38
41	Indian Ocean Dipole index recorded in Kenyan coral annual density bands. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
42	Late Holocene Sea-Level Change on Rota and Guam, Mariana Islands, and Its Constraint on Geophysical Predictions. <i>Quaternary Research</i> , 1993, 40, 189-200.	1.7	35
43	Geologic evidence for two pre-2004 earthquakes during recent centuries near Port Blair, South Andaman Island, India. <i>Geology</i> , 2011, 39, 559-562.	4.4	35
44	Anthropogenic impacts on water quality of the lagoonal coast of Fongafale Islet, Funafuti Atoll, Tuvalu. <i>Sustainability Science</i> , 2013, 8, 381-390.	4.9	34
45	Key species of hermatypic coral for reef formation in the northwest Pacific during Holocene sea-level change. <i>Marine Geology</i> , 2011, 279, 162-177.	2.1	32
46	Cycling of phosphorus maintains the production of microphytobenthic communities in carbonate sediments of a coral reef. <i>Limnology and Oceanography</i> , 2002, 47, 771-781.	3.1	31
47	Coseismic and postseismic creep in the Andaman Islands associated with the 2004 Sumatra-Andaman earthquake. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	28
48	Bleaching in the Ryukyu Islands in 2016 and associated Degree Heating Week threshold. <i>Galaxea</i> , 2017, 19, 17-18.	0.7	28
49	A compact seawater pCO ₂ measurement system with membrane equilibrator and nondispersive infrared gas analyzer. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 2025-2033.	1.4	27
50	A Photogrammetric Correction Procedure for Light Refraction Effects at a Two-Medium Boundary. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 1129-1136.	0.6	27
51	Relationship between species diversity and reef growth in the Holocene at Ishigaki Island, Pacific Ocean. <i>Sedimentary Geology</i> , 2010, 223, 86-99.	2.1	26
52	Holocene sea-level record from corals: Reliability of paleodepth indicators at Ishigaki Island, Ryukyu Islands, Japan. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 287, 143-151.	2.3	26
53	Eco-geomorphic processes that maintain a small coral reef island: Ballast Island in the Ryukyu Islands, Japan. <i>Geomorphology</i> , 2016, 271, 84-93.	2.6	25
54	Carbon flux by suspended and sinking particles around the barrier reef of Palau, western Pacific. <i>Limnology and Oceanography</i> , 1998, 43, 1883-1893.	3.1	24

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55	Larval Settlement of Corals in Flowing Water using a Racetrack Flume. Marine Technology Society Journal, 2002, 36, 76-79.	0.4	23
56	Record of Holocene aridification (6000â€“7000BP) in Egypt (NE Africa): Authigenic carbonate minerals from laminated sediments in Lake Qarun. Quaternary International, 2011, 245, 170-177.	1.5	23
57	Interannual sea surface salinity changes in the western Pacific from 1954 to 2000 based on coral isotope analysis. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	21
58	Measurement of airâ€“water CO2 transfer at four coastal sites using a chamber method. Journal of Marine Systems, 2007, 66, 140-149.	2.1	21
59	Evidence for a Holocene High Sea-Level Stand, Vanua Levu, Fiji. Quaternary Research, 1990, 33, 352-359.	1.7	20
60	Nitrogen fixation of filamentous cyanobacteria in a coral reef measured using three different methods. Coral Reefs, 2005, 24, 197-200.	2.2	20
61	Relationship of species composition of tropical seagrass meadows to multiple physical environmental factors. Ecological Research, 2007, 22, 87-96.	1.5	20
62	Archaeological Investigation of the Landscape History of an Oceanic Atoll: Majuro, Marshall Islands. Pacific Science, 2009, 63, 537-565.	0.6	20
63	Distribution and partitioning of nitrogen and phosphorus in a fringing reef lagoon of Ishigaki Island, northwestern Pacific. Marine Ecology - Progress Series, 2007, 341, 45-57.	1.9	20
64	Seasonal Radiocarbon Variation of Surface Seawater Recorded in A Coral from Kikai Island, Subtropical Northwestern Pacific. Radiocarbon, 2004, 46, 643-648.	1.8	19
65	Sedimentary facies and Holocene depositional processes of Laura Island, Majuro Atoll. Geomorphology, 2014, 222, 59-67.	2.6	19
66	Evaluation of spatial correlation between nutrient exchange rates and benthic biota in a reef-flat ecosystem by GIS-assisted flow-tracking. Journal of Oceanography, 2007, 63, 643-659.	1.7	18
67	Distribution of large benthic foraminifers around a populated reef island: Fongafale Island, Funafuti Atoll, Tuvalu. Marine Micropaleontology, 2014, 113, 1-9.	1.2	17
68	Shell productivity of the large benthic foraminifer Baculogypsina sphaerulata, based on the population dynamics in a tropical reef environment. Coral Reefs, 2016, 35, 317-326.	2.2	17
69	Contributions of the direct supply of belowground seagrass detritus and trapping of suspended organic matter to the sedimentary organic carbon stock in seagrass meadows. Biogeosciences, 2018, 15, 4033-4045.	3.3	17
70	COMPARATIVE STUDY BETWEEN PRESENT AND EMERGENT EROSIONAL LANDFORMS ON THE SOUTHEAST COAST OF BOSO PENINSULA. Chirigaku Hyoron, 1986, 59, 18-36.	0.0	17
71	Achieving High Time-Resolution with a New Flow-through Type Analyzer for Total Inorganic Carbon in Seawater.. Analytical Sciences, 2002, 18, 247-253.	1.6	16
72	Footprints of IOD and ENSO in the Kenyan coral record. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16

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73	Estimating photophysiological condition of endosymbiont-bearing <i>Baculogypsina sphaerulata</i> based on the holobiont color represented in CIE L*a*b* color space. <i>Marine Biology</i> , 2012, 159, 2663-2673.	1.5	16
74	Total alkalinity flux in coral reefs estimated from eddy covariance and sediment pore-water profiles. <i>Limnology and Oceanography</i> , 2015, 60, 229-241.	3.1	16
75	Geomorphologic Development of Modern Fringing Reefs of Yoron Island, Ryukyu Arc, Japan.. <i>The Quaternary Research</i> , 1994, 33, 67-79.	0.1	16
76	Characteristics of organic matter in lagoonal sediments from the Great Barrier Reef.. <i>Geochemical Journal</i> , 2001, 35, 385-401.	1.0	14
77	Holocene uplifted coral reefs in Lanyu and Lutao Islands to the southeast of Taiwan. <i>Coral Reefs</i> , 2011, 30, 581-592.	2.2	13
78	<i>Pomatoleios kraussii</i> (BAIRD) as a paleo sea level indicator on the southeast coast of Boso Peninsula, central Japan.. <i>The Quaternary Research</i> , 1987, 26, 47-57.	0.1	12
79	Detecting coral bleaching using high-resolution satellite data analysis and 2-dimensional thermal model simulation in the Ishigaki fringing reef, Japan. <i>Coral Reefs</i> , 2012, 31, 425-439.	2.2	11
80	Revisiting late Holocene sea-level change from the Gilbert Islands, Kiribati, west-central Pacific Ocean. <i>Quaternary Research</i> , 2017, 88, 400-408.	1.7	11
81	Response: Coral Reefs and Carbon Dioxide. <i>Science</i> , 1996, 271, 1299-1300.	12.6	10
82	Submersible System to Measure Seawater pCO ₂ on a Shallow Sea Floor. <i>Marine Technology Society Journal</i> , 2002, 36, 23-28.	0.4	10
83	Estimation of the growth pattern of <i>Baculogypsina sphaerulata</i> (Foraminifera) in a tropical environment using a floating chamber method. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 448, 156-161.	1.5	10
84	Submarine Morphology of the Island Shelf off the Middle and South Ryukyu Islands, Southwest Japan. <i>Chirigaku Hyoron</i> , 2000, 73, 161-181.	0.0	9
85	High sensitivity measurements of nitrogen isotopic ratios in coral skeletons from Palau, western Pacific: Temporal resolution and seasonal variation of nitrogen sources. <i>Geochemical Journal</i> , 2008, 42, 255-262.	1.0	9
86	Mass culturing of living sands (<i>Baculogypsina sphaerulata</i>) to protect island coasts against sea-level rise. <i>Journal of Sea Research</i> , 2014, 90, 121-126.	1.6	8
87	Unexpected high abundance of aragonite-forming <i>Nanipora</i> (Octocorallia: Helioporacea) at an acidified volcanic reef in southern Japan. <i>Marine Biodiversity</i> , 2021, 51, 1.	1.0	8
88	Low species diversity of hermatypic corals on an isolated reef, Okinotorishima, in the northwestern Pacific. <i>Galaxea</i> , 2012, 14, 73-95.	0.7	7
89	Trajectory to local extinction of an isolated dugong population near Okinawa Island, Japan. <i>Scientific Reports</i> , 2022, 12, 6151.	3.3	6
90	Anthropogenic Anoxic History of the Tuvalu Atoll Recorded as Annual Black Bands in Coral. <i>Scientific Reports</i> , 2020, 10, 7338.	3.3	5

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91	A Portable, Electrical-Based Percussion Coring System for Use in Deep Water. <i>Journal of Sedimentary Research</i> , 2002, 72, 727-730.	1.6	4
92	Response of Coral Reefs to Global Warming. <i>Coral Reefs of the World</i> , 2016, , 81-94.	0.7	4
93	Change in Molluscan Assemblages in the Holocene Accompanied by the Formation of Futtu Spit, Boso Peninsula.. <i>The Quaternary Research</i> , 1991, 30, 265-280.	0.1	4
94	Development of an automated transportable continuous system to measure the total alkalinity of seawater. <i>Talanta</i> , 2021, 221, 121666.	5.5	3
95	Relative Sea-Level Changes Over the Past Centuries in the Central Ryukyu Arc Inferred From Coral Microatolls. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018466.	3.4	2
96	Measurements of Carbonate System in the Ocean. <i>Bunseki Kagaku</i> , 2021, 70, 301-308.	0.2	1
97	The application of pH and pCO ₂ monitoring to estimating the rates of coral reef community metabolism. <i>Journal of the Japanese Coral Reef Society</i> , 2004, 2004, 21-42.	0.1	1
98	Technology in Marine Biology. <i>Marine Technology Society Journal</i> , 2002, 36, 3-3.	0.4	0
99	Field Investigation and Numerical Calculation on the Longshore Sediment Transport in the Laura islet of Majuro Atoll, Marshall Islands. <i>Proceedings of the Symposium on Global Environment</i> , 2008, 16, 131-136.	0.0	0
100	Correction to "Mode shift in the Indian Ocean climate under global warming stress". <i>Geophysical Research Letters</i> , 2010, 37, n/a-n/a.	4.0	0
101	Correction to "Mode shift in the Indian Ocean climate under global warming stress". <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	0
102	Water Circulation in a Fringing Reef and Implications for Coral Distribution and Resilience. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2014, , 275-293.	0.5	0