

James Bishop

List of Publications by Year in descending order

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56
papers

5,473
citations

94381

37
h-index

149623

56
g-index

61
all docs

61
docs citations

61
times ranked

4567
citing authors

#	ARTICLE	IF	CITATIONS
1	The barite-opal-organic carbon association in oceanic particulate matter. <i>Nature</i> , 1988, 332, 341-343.	13.7	602
2	Revisiting Carbon Flux Through the Ocean's Twilight Zone. <i>Science</i> , 2007, 316, 567-570.	6.0	547
3	Robotic Observations of Dust Storm Enhancement of Carbon Biomass in the North Pacific. <i>Science</i> , 2002, 298, 817-821.	6.0	379
4	The chemistry, biology, and vertical flux of particulate matter from the upper 400 m of the equatorial Atlantic Ocean. <i>Deep-sea Research</i> , 1977, 24, 511-548.	1.5	366
5	Light limitation of phytoplankton biomass and macronutrient utilization in the Southern Ocean. <i>Limnology and Oceanography</i> , 1991, 36, 1662-1677.	1.6	322
6	Comparison of algorithms for estimating ocean primary production from surface chlorophyll, temperature, and irradiance. <i>Global Biogeochemical Cycles</i> , 2002, 16, 9-19-15.	1.9	232
7	Exchange of neodymium and its isotopes between seawater and small and large particles in the Sargasso Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 535-547.	1.6	161
8	Multiple sulfur isotope constraints on the modern sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2014, 396, 14-21.	1.8	152
9	The chemistry, biology and vertical flux of particulate matter from the upper 400 m of the Cape Basin in the southeast Atlantic Ocean. <i>Deep-sea Research</i> , 1978, 25, 1121-1161.	1.5	144
10	Robotic Observations of Enhanced Carbon Biomass and Export at 55°S During SOFeX. <i>Science</i> , 2004, 304, 417-420.	6.0	127
11	Transmissometer measurement of POC. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 353-369.	0.6	123
12	VERTIGO (VERTical Transport In the Global Ocean): A study of particle sources and flux attenuation in the North Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1522-1539.	0.6	121
13	The chemistry, biology, and vertical flux of particulate matter from the upper 1500 m of the Panama Basin. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1980, 27, 615-640.	1.6	112
14	Standing stock, vertical distribution and flux of planktonic foraminifera in the Panama Basin. <i>Marine Micropaleontology</i> , 1985, 9, 307-333.	0.5	112
15	The correction and suspended particulate matter calibration of Sea Tech transmissometer data. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1986, 33, 121-134.	1.6	99
16	Getting good particles: Accurate sampling of particles by large volume in situ filtration. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 681-710.	1.0	95
17	as a tracer of particulate organic carbon export in the subarctic northeast Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2833-2861.	0.6	94
18	Transformations of biogenic particulates from the pelagic to the deep ocean realm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2761-2792.	0.6	91

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19	Suspended particle organic composition and cycling in surface and midwaters of the equatorial Pacific Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1983-2008.	0.6	90
20	Particulate matter distributions, chemistry and flux in the panama basin: response to environment forcing. Progress in Oceanography, 1986, 17, 1-59.	1.5	84
21	High biomass, low export regimes in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 601-638.	0.6	83
22	Spatial and temporal variability of POC in the northeast Subarctic Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 2699-2733.	0.6	77
23	Particulate matter chemistry and dynamics in the twilight zone at VERTIGO ALOHA and K2 sites. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1684-1706.	0.6	76
24	Controls on solute concentration–discharge relationships revealed by simultaneous hydrochemistry observations of hillslope runoff and stream flow: The importance of critical zone structure. Water Resources Research, 2017, 53, 1424-1443.	1.7	74
25	Barite formation in the ocean: Origin of amorphous and crystalline precipitates. Chemical Geology, 2019, 511, 441-451.	1.4	74
26	²²⁸ Ra-derived nutrient budgets in the upper equatorial Pacific and the role of ‘new’ silicate in limiting productivity. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 479-497.	0.6	65
27	The oceanographic toolbox for the collection of sinking and suspended marine particles. Progress in Oceanography, 2015, 133, 17-31.	1.5	61
28	²³⁴ Th and particle cycling in the central equatorial Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 2049-2083.	0.6	59
29	Particulate matter production and consumption in deep mixed layers: observations in a warm-core ring. Deep-sea Research Part A, Oceanographic Research Papers, 1986, 33, 1813-1841.	1.6	56
30	Tracing particle cycling in the upper ocean with ²³⁰ Th and ²²⁸ Th: An investigation in the equatorial Pacific along 140°W. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 805-829.	0.6	56
31	The downward flux of biogenic material in the NE subarctic Pacific: importance of algal sinking and mesozooplankton herbivory. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 2669-2697.	0.6	54
32	Observations of offshore shelf-water transport induced by a warm-core ring. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, S97-S113.	1.6	53
33	Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1673-1683.	0.6	53
34	Process dominance shift in solute chemistry as revealed by long-term high-frequency water chemistry observations of groundwater flowing through weathered argillite underlying a steep forested hillslope. Geochimica Et Cosmochimica Acta, 2014, 140, 1-19.	1.6	51
35	Optical techniques for remote and in-situ characterization of particles pertinent to GEOTRACES. Progress in Oceanography, 2015, 133, 43-54.	1.5	50
36	Quantifying the surface–subsurface biogeochemical coupling during the VERTIGO ALOHA and K2 studies. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1578-1593.	0.6	43

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37	Particulate manganese dynamics in Gulf Stream warm-core rings and surrounding waters of the N.W. Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2807-2825.	1.6	42
38	Autonomous Observations of the Ocean Biological Carbon Pump. <i>Oceanography</i> , 2009, 22, 182-193.	0.5	39
39	Influence of nutrients on carbon isotope fractionation by natural populations of Pymnesiophyte algae in NE Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2863-2876.	0.6	33
40	Chemical characterization of individual particles from the nepheloid layer in the Atlantic Ocean. <i>Earth and Planetary Science Letters</i> , 1982, 58, 265-275.	1.8	31
41	Particulate aluminium, iron and manganese chemistry at the deep Atlantic boundary layer. <i>Earth and Planetary Science Letters</i> , 1984, 70, 237-248.	1.8	30
42	Feeding ecology of mesopelagic zooplankton of the subtropical and subarctic North Pacific Ocean determined with fatty acid biomarkers. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1278-1294.	0.6	27
43	Variations in primary production and particulate carbon flux through the base of the euphotic zone at the site of the Sediment Trap Intercomparison Experiment (Panama Basin). <i>Journal of Marine Research</i> , 1984, 42, 189-206.	0.3	26
44	Determination of barium in seawater using vanadium/silicon modifier and direct injection graphite furnace atomic absorption spectrometry. <i>Analytical Chemistry</i> , 1990, 62, 553-557.	3.2	26
45	Spatial distributions and variability of suspended particulate matter in warm-core ring 82B. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1986, 33, 1741-1760.	1.6	25
46	Robotic observations of high wintertime carbon export in California coastal waters. <i>Biogeosciences</i> , 2016, 13, 3109-3129.	1.3	24
47	Differences in particulate nitrogen concentration and isotopic composition for samples collected by bottles and large-volume pumps in Gulf Stream warm-core rings and the Sargasso Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, S405-S417.	1.6	18
48	Global Spatial and Temporal Variation of Cd:P in Euphotic Zone Particulates. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1123-1141.	1.9	18
49	Nanogram quantification of nonpolar lipid classes in environmental samples by high performance thin layer chromatography. <i>Lipids</i> , 1988, 23, 493-500.	0.7	16
50	A rapid birefringence method for measuring suspended CaCO ₃ concentrations in seawater. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 197-210.	0.6	15
51	Springtime distributions and variability of biogenic particulate matter in Gulf Stream warm-core ring 82B and surrounding N.W. Atlantic waters. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, S295-S325.	1.6	14
52	Autonomous Water Sampling for Long-Term Monitoring of Trace Metals in Remote Environments. <i>Environmental Science & Technology</i> , 2012, 46, 11220-11226.	4.6	13
53	The US JGOFS data management experience. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 793-802.	0.6	12
54	Nephelometer and current observations at the STIE site, Panama Basin. <i>Journal of Marine Research</i> , 1984, 42, 207-219.	0.3	11

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55	Carbon Flux Explorer optical assessment of C, N and P fluxes. Biogeosciences, 2019, 16, 1249-1264.	1.3	9
56	Carbon export and fate beneath a dynamic upwelled filament off the California coast. Biogeosciences, 2021, 18, 3053-3086.	1.3	4