

Raleigh Hood

List of Publications by Year in descending order

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83
papers

3,608
citations

126858

33
h-index

143943

57
g-index

91
all docs

91
docs citations

91
times ranked

4047
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of skill and portability in regional marine biogeochemical models: Role of multiple planktonic groups. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	215
2	Pelagic functional group modeling: Progress, challenges and prospects. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 459-512.	0.6	200
3	Phosphorus deficiency in the Atlantic: An emerging paradigm in oceanography. <i>Eos</i> , 2003, 84, 165.	0.1	178
4	A four-component ecosystem model of biological activity in the Arabian Sea. <i>Progress in Oceanography</i> , 1996, 37, 193-240.	1.5	167
5	Detecting <i>Trichodesmium</i> blooms in SeaWiFS imagery. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 49, 107-121.	0.6	148
6	The pathways and properties of the Amazon River Plume in the tropical North Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6894-6913.	1.0	128
7	Dynamics of the Indian-Ocean oxygen minimum zones. <i>Progress in Oceanography</i> , 2013, 112-113, 15-37.	1.5	126
8	Ecosystem model complexity versus physical forcing: Quantification of their relative impact with assimilated Arabian Sea data. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 576-600.	0.6	124
9	Ocean biogeochemistry modeled with emergent trait-based genomics. <i>Science</i> , 2017, 358, 1149-1154.	6.0	122
10	Modeling the effect of nitrogen fixation on carbon and nitrogen fluxes at BATS. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1609-1648.	0.6	99
11	Modeling the distribution of <i>Trichodesmium</i> and nitrogen fixation in the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	98
12	Chesapeake Bay nitrogen fluxes derived from a land-estuarine ocean biogeochemical modeling system: Model description, evaluation, and nitrogen budgets. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1666-1695.	1.3	97
13	Progress made in study of ocean's calcium carbonate budget. <i>Eos</i> , 2002, 83, 365-375.	0.1	87
14	Influences of diurnal and intraseasonal forcing on mixed-layer and biological variability in the central Arabian Sea. <i>Journal of Geophysical Research</i> , 2001, 106, 7139-7155.	3.3	80
15	Challenges associated with modeling low-oxygen waters in Chesapeake Bay: a multiple model comparison. <i>Biogeosciences</i> , 2016, 13, 2011-2028.	1.3	73
16	The influence of wind and river pulses on an estuarine turbidity maximum: Numerical studies and field observations in Chesapeake Bay. <i>Estuaries and Coasts</i> , 2004, 27, 132-146.	1.7	67
17	Climate Forcing and Salinity Variability in Chesapeake Bay, USA. <i>Estuaries and Coasts</i> , 2012, 35, 237-261.	1.0	67
18	Surface patterns in temperature, flow, phytoplankton biomass, and species composition in the coastal transition zone off Northern California. <i>Journal of Geophysical Research</i> , 1990, 95, 18081-18094.	3.3	66

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19	Biogeochemical and ecological impacts of boundary currents in the Indian Ocean. <i>Progress in Oceanography</i> , 2017, 156, 290-325.	1.5	65
20	Indonesian throughflow nutrient fluxes and their potential impact on Indian Ocean productivity. <i>Geophysical Research Letters</i> , 2014, 41, 5060-5067.	1.5	64
21	Phytoplankton and photosynthetic light response in the Coastal Transition Zone off northern California in June 1987. <i>Journal of Geophysical Research</i> , 1991, 96, 14769-14780.	3.3	63
22	Biophysical processes in the Indian Ocean. <i>Geophysical Monograph Series</i> , 2009, , 9-32.	0.1	60
23	A simple empirical optical model for simulating light attenuation variability in a partially mixed estuary. <i>Estuaries and Coasts</i> , 2005, 28, 572-580.	1.7	59
24	A four-dimensional validation of a coupled physical–biological model of the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003, 50, 2917-2945.	0.6	52
25	Linking optimization and ecological models in a decision support tool for oyster restoration and management. <i>Ecological Applications</i> , 2010, 20, 851-866.	1.8	52
26	Top-down, bottom-up and physical controls on diatom-diazotroph assemblage growth in the Amazon River plume. <i>Biogeosciences</i> , 2014, 11, 3259-3278.	1.3	52
27	Modeling biogeochemical cycles in Chesapeake Bay with a coupled physical–biological model. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 69, 19-46.	0.9	51
28	Predicting the Distribution of <i>Vibrio</i> spp. in the Chesapeake Bay: A <i>Vibrio cholerae</i> Case Study. <i>EcoHealth</i> , 2009, 6, 378-389.	0.9	51
29	Modeling particles and pelagic organisms in Chesapeake Bay: Convergent features control plankton distributions. <i>Journal of Geophysical Research</i> , 1999, 104, 1223-1243.	3.3	49
30	Answers sought to the enigma of marine nitrogen fixation. <i>Eos</i> , 2000, 81, 133.	0.1	42
31	Modeling the impact of iron and phosphorus limitations on nitrogen fixation in the Atlantic Ocean. <i>Biogeosciences</i> , 2007, 4, 455-479.	1.3	41
32	Modeling the impact of <i>Trichodesmium</i> and nitrogen fixation in the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	40
33	A numerical investigation of the phytoplankton bloom in the Bay of Bengal during Northeast Monsoon. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	39
34	Assessment of Fecal Indicator Bacteria and Potential Pathogen Co-Occurrence at a Shellfish Growing Area. <i>Frontiers in Microbiology</i> , 2018, 9, 384.	1.5	38
35	A Community Approach to Earth Systems Modeling. <i>Eos</i> , 2010, 91, 117-118.	0.1	35
36	Modeling the seasonal autochthonous sources of dissolved organic carbon and nitrogen in the upper Chesapeake Bay. <i>Ecological Modelling</i> , 2011, 222, 1139-1162.	1.2	34

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37	Modeling and forecasting the distribution of <i>Vibrio vulnificus</i> in Chesapeake Bay. <i>Journal of Applied Microbiology</i> , 2014, 117, 1312-1327.	1.4	33
38	Biogeochemical variability in the central equatorial Indian Ocean during the monsoon transition. <i>Biogeosciences</i> , 2015, 12, 2367-2382.	1.3	31
39	The influence of episodic events on transport of striped bass eggs to the estuarine turbidity maximum nursery area. <i>Estuaries and Coasts</i> , 2005, 28, 108-123.	1.7	29
40	Modeling the Effects of Oyster Reefs and Breakwaters on Seagrass Growth. <i>Estuaries and Coasts</i> , 2009, 32, 748-757.	1.0	28
41	Remote sensing of new production fuelled by nitrogen fixation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	27
42	Modeling the influence of nutrients, turbulence and grazing on <i>Pfiesteria</i> population dynamics. <i>Harmful Algae</i> , 2006, 5, 459-479.	2.2	26
43	Comparative simulations of dissolved organic matter cycling in idealized oceanic, coastal, and estuarine surface waters. <i>Journal of Marine Systems</i> , 2013, 109-110, 109-128.	0.9	26
44	Environmental Models and Public Stakeholders in the Chesapeake Bay Watershed. <i>Estuaries and Coasts</i> , 2015, 38, 97-113.	1.0	23
45	Remote estimation of nitrogen fixation by <i>Trichodesmium</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 49, 123-147.	0.6	21
46	Assimilating high-resolution salinity data into a model of a partially mixed estuary. <i>Journal of Geophysical Research</i> , 2002, 107, 11-1.	3.3	20
47	A mechanistic model of photochemical transformation and degradation of colored dissolved organic matter. <i>Marine Chemistry</i> , 2019, 214, 103666.	0.9	19
48	Response of <i>Chrysaora quinquecirrha</i> medusae to low temperature. <i>Hydrobiologia</i> , 2010, 645, 125-133.	1.0	18
49	Indian Ocean research: Opportunities and challenges. <i>Geophysical Monograph Series</i> , 2009, , 409-429.	0.1	18
50	Turbidity Maximum Entrapment of Phytoplankton in the Chesapeake Bay. <i>Estuaries and Coasts</i> , 2014, 37, 279-298.	1.0	17
51	Patterns of Transcript Abundance of Eukaryotic Biogeochemically-Relevant Genes in the Amazon River Plume. <i>PLoS ONE</i> , 2016, 11, e0160929.	1.1	17
52	Modelling pelagic biogeography. <i>Progress in Oceanography</i> , 1994, 34, 161-205.	1.5	16
53	Modeling and Prediction of Marine Microbial Populations in the Genomic Era. <i>Oceanography</i> , 2007, 20, 155-165.	0.5	16
54	Modeling how surface nitrogen fixation influences subsurface nutrient patterns in the North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2520-2534.	1.0	15

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55	Forecasting system predicts presence of sea nettles in Chesapeake Bay. <i>Eos</i> , 2002, 83, 321.	0.1	14
56	An integrated modelling system for management of the Patuxent River estuary and basin, Maryland, USA. <i>International Journal of Remote Sensing</i> , 2006, 27, 3705-3726.	1.3	14
57	A Comprehensive Estuarine Dissolved Organic Carbon Budget Using an Enhanced Biogeochemical Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005442.	1.3	14
58	The 2 nd International Indian Ocean Expedition (IIOE-2): Motivating New Exploration in a Poorly Understood Basin. <i>Limnology and Oceanography Bulletin</i> , 2016, 25, 117-124.	0.2	13
59	Research Opportunities and Challenges in the Indian Ocean. <i>Eos</i> , 2008, 89, 125-126.	0.1	12
60	Approaches and Challenges for Linking Marine Biogeochemical Models with the "Omics" Revolution. , 2016, , 45-63.		12
61	Estuarine Sediment Dissolved Organic Matter Dynamics in an Enhanced Sediment Flux Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2669-2682.	1.3	11
62	Wind-Driven Dissolved Organic Matter Dynamics in a Chesapeake Bay Tidal Marsh-Estuary System. <i>Estuaries and Coasts</i> , 2018, 41, 708-723.	1.0	11
63	An individual-based numerical model of medusa swimming behavior. <i>Marine Biology</i> , 2006, 149, 595-608.	0.7	9
64	Precipitation thresholds for fecal bacterial indicators in the Chesapeake Bay. <i>Water Research</i> , 2018, 139, 252-262.	5.3	9
65	Modeling the Origin of the Particulate Organic Matter Flux to the Hypoxic Zone of Chesapeake Bay in Early Summer. <i>Estuaries and Coasts</i> , 2021, 44, 672-688.	1.0	9
66	Low temperature sensitivity of picophytoplankton P:A ratios and growth rates across a natural 10°C temperature gradient in the oligotrophic Indian Ocean. <i>Limnology and Oceanography Letters</i> , 2022, 7, 112-121.	1.6	7
67	Climate Extremes and Variability Surrounding Chesapeake Bay: Past, Present, and Future. <i>Journal of the American Water Resources Association</i> , 2022, 58, 826-854.	1.0	6
68	Patterns in swimming by a scyphomedusa: a novel approach to quantifying behavior in individuals. <i>Marine Biology</i> , 2004, 145, 303.	0.7	5
69	Introduction to Indian Ocean biogeochemical processes and ecological variability: Current understanding and emerging perspectives. <i>Geophysical Monograph Series</i> , 2009, , 1-7.	0.1	5
70	New Indian Ocean Program Builds on a Scientific Legacy. <i>Eos</i> , 2014, 95, 349-350.	0.1	5
71	Ocean Nitrogen Cycle Modeling. , 2008, , 1445-1495.		4
72	Microbial community biomass, production and grazing along 110°E in the eastern Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 202, 105134.	0.6	4

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73	Abundance and patchiness of <i>Chrysaora quinquecirrha</i> medusae from a high-frequency time series in the Choptank River, Chesapeake Bay, USA. <i>Hydrobiologia</i> , 2017, 792, 227-242.	1.0	3
74	Biogeochemical and Ecological Research in the Indian Ocean. <i>Eos</i> , 2007, 88, 144.	0.1	2
75	Modeling Hypoxia and Its Ecological Consequences in Chesapeake Bay. , 2017, , 119-147.		2
76	Sensitivity of a biogeochemical model to the formulation of oyster filtration. <i>Ecological Modelling</i> , 2019, 403, 70-84.	1.2	1
77	A Near Real Time Simulation of Salinity, Temperature and Sea Nettles (<i>Chrysaora quinquecirrha</i>) Tj ETQq1 1 0.784314 rgBT /Ove	0.784314	0
78	OCEAN SCIENCES MEETING 2010: FROM OBSERVATION TO PREDICTION IN THE 21ST CENTURY. <i>Limnology and Oceanography Bulletin</i> , 2009, 18, 76-77.	0.2	0
79	IMBIZO II: JGOFS MEETS GLOBEC IN CRETE. <i>Limnology and Oceanography Bulletin</i> , 2010, 19, 82-83.	0.2	0
80	The second International Indian Ocean Expedition (IIOE-2): Motivating new exploration in a poorly understood ocean basin (volume 2). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 3-5.	0.6	0
81	The Second International Indian Ocean Expedition (IIOE-2): Motivating New Exploration in a Poorly Understood Ocean Basin (Volume 1). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 161, 2-4.	0.6	0
82	OCEAN PROCESSES RELEVANT TO CLIMATE VARIATIONS IN THE INDIAN OCEAN SECTOR. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2016, , 25-61.	0.2	0
83	Transport and Fate of Particulate Organic Nitrogen in Chesapeake Bay: a Numerical Study. <i>Estuaries and Coasts</i> , 0, , .	1.0	0