

# George A Jackson

## List of Publications by Year in descending order

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73  
papers

6,927  
citations

57752

44  
h-index

82542

72  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Aggregation Dynamics. , 2019, , 201-209.		0
2	Turbulence mediates marine aggregate formation and destruction in the upper ocean. Scientific Reports, 2019, 9, 16280.	3.3	13
3	Coagulation in a rotating cylinder. Limnology and Oceanography: Methods, 2015, 13, 194-201.	2.0	20
4	Estimating zooplankton vertical distribution from combined LOPC and ZooScan observations on the Brazilian Coast. Marine Biology, 2015, 162, 2171-2186.	1.5	10
5	Settling of particles in the upper 100 m of the ocean detected with autonomous profiling floats off California. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 99, 75-86.	1.4	21
6	Simulating aggregate dynamics in ocean biogeochemical models. Progress in Oceanography, 2015, 133, 55-65.	3.2	43
7	The distribution and vertical flux of fecal pellets from large zooplankton in Monterey bay and coastal California. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 94, 72-86.	1.4	24
8	Plankton and seston size spectra estimated by the LOPC and ZooScan in the Abrolhos Bank ecosystem (SE Atlantic). Continental Shelf Research, 2013, 70, 74-87.	1.8	48
9	Aggregates and their distributions determined from LOPC observations made using an autonomous profiling float. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 74, 64-81.	1.4	24
10	Seascapes: the world of aquatic organisms as determined by their particulate natures. Journal of Experimental Biology, 2012, 215, 1017-1030.	1.7	15
11	Does eddyâ€eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. Journal of Geophysical Research, 2012, 117, .	3.3	80
12	Particle size distributions in the upper 100m water column and their implications for animal feeding in the plankton. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 283-297.	1.4	89
13	Seasonal and annual reoccurrence in betaproteobacterial ammoniaâ€oxidizing bacterial population structure. Environmental Microbiology, 2011, 13, 872-886.	3.8	39
14	High resolution profiles of vertical particulate organic matter export off Cape Blanc, Mauritania: Degradation processes and ballasting effects. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 771-784.	1.4	164
15	Mesopelagic zone ecology and biogeochemistry â€ a synthesis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1504-1518.	1.4	254
16	Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the @Sâ™! is wrong with present calculations of carbon budgets?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1557-1571.	1.4	268
17	Effects of phytoplankton community on production, size, and export of large aggregates: A worldâ€ocean analysis. Limnology and Oceanography, 2009, 54, 1951-1963.	3.1	216
18	Particle Aggregation. Annual Review of Marine Science, 2009, 1, 65-90.	11.6	410

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19	Sediment denitrifier community composition and <i>nirS</i> gene expression investigated with functional gene microarrays. <i>Environmental Microbiology</i> , 2008, 10, 3057-3069.	3.8	71
20	Effect of mixed layer depth on phytoplankton removal by coagulation and on the critical depth concept. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 766-776.	1.4	6
21	Relationship between particle size distribution and flux in the mesopelagic zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 1364-1374.	1.4	138
22	Maximum phytoplankton concentrations in the sea. <i>Limnology and Oceanography</i> , 2008, 53, 395-399.	3.1	19
23	Small Phytoplankton and Carbon Export from the Surface Ocean. <i>Science</i> , 2007, 315, 838-840.	12.6	487
24	The role of the particle size spectrum in estimating POC fluxes from disequilibrium. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 897-918.	1.4	27
25	Ammonia-oxidizing bacterial community composition in estuarine and oceanic environments assessed using a functional gene microarray. <i>Environmental Microbiology</i> , 2007, 9, 2522-2538.	3.8	72
26	Spatial and seasonal patterns of carbon cycling through planktonic food webs of the Arabian Sea determined by inverse analysis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 555-575.	1.4	34
27	Carbon steady-state model of the planktonic food web of Lake Biwa, Japan. <i>Freshwater Biology</i> , 2006, 51, 1570-1585.	2.4	18
28	<sup>234</sup> Th sorption and export models in the water column: A review. <i>Marine Chemistry</i> , 2006, 100, 234-249.	2.3	174
29	Role of algal aggregation in vertical carbon export during SOIREE and in other low biomass environments. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	74
30	A vertical model of particle size distributions and fluxes in the midwater column that includes biological and physical processesâ€”Part I: model formulation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 865-884.	1.4	136
31	A vertical model of particle size distributions and fluxes in the midwater column that includes biological and physical processesâ€”Part II: application to a three year survey in the NW Mediterranean Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 885-908.	1.4	89
32	Carbon fluxes through food webs of the eastern equatorial Pacific: an inverse approach. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1245-1274.	1.4	52
33	Modeling Steady-State Particle Size Spectra. <i>Environmental Science &amp; Technology</i> , 2002, 36, 323-327.	10.0	53
34	Shining a light on the ocean's twilight zone. <i>Eos</i> , 2002, 83, 573.	0.1	7
35	Are mesoscale perturbation experiments in polar waters prone to physical artefacts? Evidence from algal aggregation modelling studies. <i>Geophysical Research Letters</i> , 2002, 29, 36-1.	4.0	27
36	An analysis of water column distributions in Florida Bay. <i>Estuaries and Coasts</i> , 2002, 25, 570-585.	1.7	9

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37	Effect of coagulation on a model planktonic food web. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 95-123.	1.4	90
38	A model for the distribution of particle flux in the mid-water column controlled by subsurface biotic interactions. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 193-217.	1.4	43
39	Marine snow, organic solute plumes, and optimal chemosensory behavior of bacteria. Limnology and Oceanography, 2001, 46, 1309-1318.	3.1	245
40	A coupled adsorption-“aggregation model of the POC/ ratio of marine particles. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 103-120.	1.4	82
41	Particle transport through a narrow tidal inlet due to tidal forcing and implications for larval transport. Journal of Geophysical Research, 2000, 105, 24141-24156.	3.3	41
42	Using Fractal Scaling and Two-Dimensional Particle Size Spectra to Calculate Coagulation Rates for Heterogeneous Systems. Journal of Colloid and Interface Science, 1998, 202, 20-29.	9.4	35
43	Aggregation in the Marine Environment. Environmental Science & Technology, 1998, 32, 2805-2814.	10.0	142
44	Particle size spectra between 1 $\mu$ m and 1 cm at Monterey Bay determined using multiple instruments. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1739-1767.	1.4	149
45	Currents in the high drag environment of a coastal kelp stand off California. Continental Shelf Research, 1997, 17, 1913-1928.	1.8	71
46	Modeling phytoplankton growth rates. Journal of Plankton Research, 1996, 18, 63-85.	1.8	45
47	Sedimentation of phytoplankton during a diatom bloom: Rates and mechanisms. Journal of Marine Research, 1996, 54, 1123-1148.	0.3	91
48	Coagulation of Marine Algae. Advances in Chemistry Series, 1995, , 203-217.	0.6	8
49	Combining particle size spectra from a mesocosm experiment measured using photographic and aperture impedance (Coulter and Elzone) techniques. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 139-157.	1.4	46
50	Comparing observed changes in particle size spectra with those predicted using coagulation theory. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 159-184.	1.4	95
51	TEP and coagulation during a mesocosm experiment. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 215-222.	1.4	47
52	Particle trajectories in a rotating cylinder: implications for aggregation incubations. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 429-437.	1.4	35
53	Flux feeding as a mechanism for zooplankton grazing and its implications for vertical particulate flux 1. Limnology and Oceanography, 1993, 38, 1328-1331.	3.1	72
54	Effect of coagulation on nutrient and light limitation of an algal bloom. Limnology and Oceanography, 1992, 37, 77-89.	3.1	95

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55	Food web analysis of a planktonic system off Southern California. <i>Progress in Oceanography</i> , 1992, 30, 223-251.	3.2	69
56	A model of the formation of marine algal flocs by physical coagulation processes. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1990, 37, 1197-1211.	1.5	451
57	Elemental cycling and fluxes off southern California. <i>Eos</i> , 1989, 70, 146.	0.1	32
58	Simulation of bacterial attraction and adhesion to falling particles in an aquatic environment. <i>Limnology and Oceanography</i> , 1989, 34, 514-530.	3.1	87
59	Measures of net oxidant concentration in seawater. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 209-225.	1.5	3
60	Kelvin Wave Propagation in a High Drag Coastal Environment. <i>Journal of Physical Oceanography</i> , 1988, 18, 1733-1743.	1.7	2
61	Simulating chemosensory responses of marine microorganisms <sup>1</sup> . <i>Limnology and Oceanography</i> , 1987, 32, 1253-1266.	3.1	74
62	Role of sea floor organisms in oxygen consumption in the deep North Pacific Ocean. <i>Nature</i> , 1987, 329, 621-623.	27.8	68
63	Macrocystis and its environment, knowns and unknowns. <i>Aquatic Botany</i> , 1986, 26, 9-26.	1.6	33
64	Importance of dissolved organic nitrogen and phosphorus to biological nutrient cycling. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1985, 32, 223-235.	1.5	195
65	Internal Wave Attenuation by Coastal Kelp Stands. <i>Journal of Physical Oceanography</i> , 1984, 14, 1300-1306.	1.7	51
66	Effect of a kelp forest on coastal currents. <i>Continental Shelf Research</i> , 1983, 2, 75-80.	1.8	243
67	Zooplankton grazing effects on <sup>14</sup> C-based phytoplankton production measurements: a theoretical study. <i>Journal of Plankton Research</i> , 1983, 5, 83-94.	1.8	14
68	Sludge disposal in Southern California basins. <i>Environmental Science &amp; Technology</i> , 1982, 16, 746-757.	10.0	23
69	Larval Mortality from Offshore Mixing as a Link between Precompetent and Competent Periods of Development. <i>American Naturalist</i> , 1981, 118, 16-26.	2.1	191
70	Phytoplankton growth and Zooplankton grazing in oligotrophic oceans. <i>Nature</i> , 1980, 284, 439-441.	27.8	192
71	Marine Biomass Production through Seaweed Aquaculture <sup>11</sup> This work supported by Ford Foundation Grant No. 740-0469 and Rockefeller Foundation Grant in Aid CA NES 7706 to the Environmental Quality Laboratory.., 1980, , 31-58.		11
72	Trace metal-chelator interactions and phytoplankton growth in seawater media: Theoretical analysis and comparison with reported observations 1. <i>Limnology and Oceanography</i> , 1978, 23, 268-282.	3.1	194

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73	Nutrients and production of giant kelp, <i>Macrocystis pyrifera</i> , off southern California 1. <i>Limnology and Oceanography</i> , 1977, 22, 979-995.	3.1	198