

# George A Jackson

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Small Phytoplankton and Carbon Export from the Surface Ocean. <i>Science</i> , 2007, 315, 838-840.   | 12.6 | 487       |
| 2  | 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       |
| 3  | Particle Aggregation. <i>Annual Review of Marine Science</i> , 2009, 1, 65-90.   | 11.6 | 410       |
| 4  | Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the $\delta^{13}C$ is wrong with present calculations of carbon budgets?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1557-1571. | 1.4  | 268       |
| 5  | Mesopelagic zone ecology and biogeochemistry – a synthesis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1504-1518.   | 1.4  | 254       |
| 6  | Marine snow, organic solute plumes, and optimal chemosensory behavior of bacteria. <i>Limnology and Oceanography</i> , 2001, 46, 1309-1318.  | 3.1  | 245       |
| 7  | Effect of a kelp forest on coastal currents. <i>Continental Shelf Research</i> , 1983, 2, 75-80.   | 1.8  | 243       |
| 8  | Effects of phytoplankton community on production, size, and export of large aggregates: A world-ocean analysis. <i>Limnology and Oceanography</i> , 2009, 54, 1951-1963.   | 3.1  | 216       |
| 9  | 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       |
| 10 | 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       |
| 11 | 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       |
| 12 | Phytoplankton growth and Zooplankton grazing in oligotrophic oceans. <i>Nature</i> , 1980, 284, 439-441.   | 27.8 | 192       |
| 13 | 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       |
| 14 | $^{234}Th$ sorption and export models in the water column: A review. <i>Marine Chemistry</i> , 2006, 100, 234-249.   | 2.3  | 174       |
| 15 | High resolution profiles of vertical particulate organic matter export off Cape Blanc, Mauritania: Degradation processes and ballasting effects. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 771-784.   | 1.4  | 164       |
| 16 | Particle size spectra between 1 $\mu m$ and 1 cm at Monterey Bay determined using multiple instruments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1997, 44, 1739-1767.  | 1.4  | 149       |
| 17 | Aggregation in the Marine Environment. <i>Environmental Science &amp; Technology</i> , 1998, 32, 2805-2814.  | 10.0 | 142       |
| 18 | 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       |

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|----|--|------|-----------|
| 19 | A vertical model of particle size distributions and fluxes in the midwater column that includes biological and physical processesâ€”Part I: model formulation. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 865-884.   | 1.4  | 136       |
| 20 | Effect of coagulation on nutrient and light limitation of an algal bloom. Limnology and Oceanography, 1992, 37, 77-89.   | 3.1  | 95        |
| 21 | 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        |
| 22 | Sedimentation of phytoplankton during a diatom bloom: Rates and mechanisms. Journal of Marine Research, 1996, 54, 1123-1148.   | 0.3  | 91        |
| 23 | Effect of coagulation on a model planktonic food web. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 95-123.   | 1.4  | 90        |
| 24 | 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. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 885-908. | 1.4  | 89        |
| 25 | 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        |
| 26 | Simulation of bacterial attraction and adhesion to falling particles in an aquatic environment. Limnology and Oceanography, 1989, 34, 514-530.   | 3.1  | 87        |
| 27 | A coupled adsorptionâ€”aggregation model of the POC/ ratio of marine particles. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 103-120.  | 1.4  | 82        |
| 28 | 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        |
| 29 | Simulating chemosensory responses of marine microorganisms1. Limnology and Oceanography, 1987, 32, 1253-1266.  | 3.1  | 74        |
| 30 | Role of algal aggregation in vertical carbon export during SOIREE and in other low biomass environments. Geophysical Research Letters, 2005, 32, .   | 4.0  | 74        |
| 31 | 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        |
| 32 | Ammonia-oxidizing bacterial community composition in estuarine and oceanic environments assessed using a functional gene microarray. Environmental Microbiology, 2007, 9, 2522-2538.   | 3.8  | 72        |
| 33 | Currents in the high drag environment of a coastal kelp stand off California. Continental Shelf Research, 1997, 17, 1913-1928.   | 1.8  | 71        |
| 34 | Sediment denitrifier community composition and <i>nirS</i> gene expression investigated with functional gene microarrays. Environmental Microbiology, 2008, 10, 3057-3069.   | 3.8  | 71        |
| 35 | Food web analysis of a planktonic system off Southern California. Progress in Oceanography, 1992, 30, 223-251.   | 3.2  | 69        |
| 36 | Role of sea floor organisms in oxygen consumption in the deep North Pacific Ocean. Nature, 1987, 329, 621-623.   | 27.8 | 68        |

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|----|---|------|-----------|
| 37 | Modeling Steady-State Particle Size Spectra. <i>Environmental Science &amp; Technology</i> , 2002, 36, 323-327.   | 10.0 | 53        |
| 38 | 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        |
| 39 | Internal Wave Attenuation by Coastal Kelp Stands. <i>Journal of Physical Oceanography</i> , 1984, 14, 1300-1306.  | 1.7  | 51        |
| 40 | Plankton and seston size spectra estimated by the LOPC and ZooScan in the Abrolhos Bank ecosystem (SE Atlantic). <i>Continental Shelf Research</i> , 2013, 70, 74-87.   | 1.8  | 48        |
| 41 | TEP and coagulation during a mesocosm experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 215-222.  | 1.4  | 47        |
| 42 | Combining particle size spectra from a mesocosm experiment measured using photographic and aperture impedance (Coulter and Elzone) techniques. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 139-157. | 1.4  | 46        |
| 43 | Modeling phytoplankton growth rates. <i>Journal of Plankton Research</i> , 1996, 18, 63-85.   | 1.8  | 45        |
| 44 | A model for the distribution of particle flux in the mid-water column controlled by subsurface biotic interactions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 49, 193-217.                            | 1.4  | 43        |
| 45 | Simulating aggregate dynamics in ocean biogeochemical models. <i>Progress in Oceanography</i> , 2015, 133, 55-65.   | 3.2  | 43        |
| 46 | Particle transport through a narrow tidal inlet due to tidal forcing and implications for larval transport. <i>Journal of Geophysical Research</i> , 2000, 105, 24141-24156.  | 3.3  | 41        |
| 47 | Seasonal and annual reoccurrence in betaproteobacterial ammonia-oxidizing bacterial population structure. <i>Environmental Microbiology</i> , 2011, 13, 872-886.  | 3.8  | 39        |
| 48 | Particle trajectories in a rotating cylinder: implications for aggregation incubations. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 429-437.   | 1.4  | 35        |
| 49 | Using Fractal Scaling and Two-Dimensional Particle Size Spectra to Calculate Coagulation Rates for Heterogeneous Systems. <i>Journal of Colloid and Interface Science</i> , 1998, 202, 20-29.   | 9.4  | 35        |
| 50 | 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        |
| 51 | Macrocystis and its environment, knowns and unknowns. <i>Aquatic Botany</i> , 1986, 26, 9-26.   | 1.6  | 33        |
| 52 | Elemental cycling and fluxes off southern California. <i>Eos</i> , 1989, 70, 146.   | 0.1  | 32        |
| 53 | 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        |
| 54 | 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        |

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|----|--|------|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | Sludge disposal in Southern California basins. Environmental Science & Technology, 1982, 16, 746-757.  | 10.0 | 23        |
| 58 | 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        |
| 59 | Coagulation in a rotating cylinder. Limnology and Oceanography: Methods, 2015, 13, 194-201.  | 2.0  | 20        |
| 60 | Maximum phytoplankton concentrations in the sea. Limnology and Oceanography, 2008, 53, 395-399.  | 3.1  | 19        |
| 61 | Carbon steady-state model of the planktonic food web of Lake Biwa, Japan. Freshwater Biology, 2006, 51, 1570-1585.   | 2.4  | 18        |
| 62 | Seascapes: the world of aquatic organisms as determined by their particulate natures. Journal of Experimental Biology, 2012, 215, 1017-1030.   | 1.7  | 15        |
| 63 | Zooplankton grazing effects on <sup>14</sup> C-based phytoplankton production measurements: a theoretical study. Journal of Plankton Research, 1983, 5, 83-94.   | 1.8  | 14        |
| 64 | Turbulence mediates marine aggregate formation and destruction in the upper ocean. Scientific Reports, 2019, 9, 16280.   | 3.3  | 13        |
| 65 | 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        |
| 66 | Estimating zooplankton vertical distribution from combined LOPC and ZooScan observations on the Brazilian Coast. Marine Biology, 2015, 162, 2171-2186.   | 1.5  | 10        |
| 67 | An analysis of water column distributions in Florida Bay. Estuaries and Coasts, 2002, 25, 570-585.   | 1.7  | 9         |
| 68 | Coagulation of Marine Algae. Advances in Chemistry Series, 1995, , 203-217.  | 0.6  | 8         |
| 69 | Shining a light on the ocean's twilight zone. Eos, 2002, 83, 573.  | 0.1  | 7         |
| 70 | Effect of mixed layer depth on phytoplankton removal by coagulation and on the critical depth concept. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 766-776.   | 1.4  | 6         |
| 71 | Measures of net oxidant concentration in seawater. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 209-225.   | 1.5  | 3         |
| 72 | Kelvin Wave Propagation in a High Drag Coastal Environment. Journal of Physical Oceanography, 1988, 18, 1733-1743.   | 1.7  | 2         |

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|----|---|----|-----------|
| 73 | Particle Aggregation Dynamics. , 2019, , 201-209. |    | 0         |