

# Peter A Thompson

## List of Publications by Year in descending order

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115  
papers

6,281  
citations

61984

43  
h-index

74163

75  
g-index

118  
all docs

118  
docs citations

118  
times ranked

6927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Species traits and climate velocity explain geographic range shifts in an ocean-warming hotspot. <i>Ecology Letters</i> , 2015, 18, 944-953.	6.4	334
2	Effects of nutrient and light limitation on the biochemical composition of phytoplankton. <i>Journal of Applied Phycology</i> , 1990, 2, 45-56.	2.8	256
3	EFFECTS OF VARIATION IN TEMPERATURE. I. ON THE BIOCHEMICAL COMPOSITION OF EIGHT SPECIES OF MARINE PHYTOPLANKTON1. <i>Journal of Phycology</i> , 1992, 28, 481-488.	2.3	239
4	PHYSIOLOGICAL ACCLIMATION OF MARINE PHYTOPLANKTON TO DIFFERENT NITROGEN SOURCES1. <i>Journal of Phycology</i> , 1993, 29, 587-595.	2.3	227
5	Future HAB science: Directions and challenges in a changing climate. <i>Harmful Algae</i> , 2020, 91, 101632.	4.8	223
6	Defining and observing stages of climate-mediated range shifts in marine systems. <i>Global Environmental Change</i> , 2014, 26, 27-38.	7.8	207
7	EFFECTS OF VARIATION IN TEMPERATURE. II. ON THE FATTY ACID COMPOSITION OF EIGHT SPECIES OF MARINE PHYTOPLANKTON1. <i>Journal of Phycology</i> , 1992, 28, 488-497.	2.3	198
8	INFLUENCE OF IRRADIANCE ON THE FATTY ACID COMPOSITION OF PHYTOPLANKTON1. <i>Journal of Phycology</i> , 1990, 26, 278-288.	2.3	190
9	The influence of irradiance on the biochemical composition of three phytoplankton species and their nutritional value for larvae of the Pacific Oyster ( <i>Crassostrea gigas</i> ). <i>Marine Biology</i> , 1993, 117, 259-268.	1.5	124
10	Resilience and signatures of tropicalization in protected reef fish communities. <i>Nature Climate Change</i> , 2014, 4, 62-67.	18.8	123
11	Does energy control the sinking rates of marine diatoms?. <i>Limnology and Oceanography</i> , 1992, 37, 468-477.	3.1	119
12	The Leeuwin Current and its eddies: An introductory overview. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 789-796.	1.4	118
13	Light-limited growth on ammonium vs. nitrate: What is the advantage for marine phytoplankton?. <i>Limnology and Oceanography</i> , 1989, 34, 1014-1024.	3.1	113
14	INFLUENCE OF IRRADIANCE ON CELL VOLUME AND CARBON QUOTA FOR TEN SPECIES OF MARINE PHYTOPLANKTON1. <i>Journal of Phycology</i> , 1991, 27, 351-360.	2.3	110
15	Sinking rate versus cell volume relationships illuminate sinking rate control mechanisms in marine diatoms. <i>Marine Ecology - Progress Series</i> , 1997, 157, 97-108.	1.9	107
16	Long-term changes in temperate Australian coastal waters: implications for phytoplankton. <i>Marine Ecology - Progress Series</i> , 2009, 394, 1-19.	1.9	102
17	Effects of monospecific algal diets of varying biochemical composition on the growth and survival of Pacific oyster ( <i>Crassostrea gigas</i> ) larvae. <i>Marine Biology</i> , 1992, 113, 645-654.	1.5	94
18	Observed and predicted impacts of climate change on the estuaries of south-western Australia, a Mediterranean climate region. <i>Regional Environmental Change</i> , 2018, 18, 1357-1373.	2.9	94

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19	Nitrogen uptake kinetics in three year-classes of <i>Laminaria groenlandica</i> (Laminariales: Phaeophyta). <i>Marine Biology</i> , 1986, 93, 29-35.	1.5	88
20	Global patterns of change and variation in sea surface temperature and chlorophyll a. <i>Scientific Reports</i> , 2018, 8, 14624.	3.3	88
21	Food web structure in two counter-rotating eddies based on $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ isotopic analyses. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1055-1075.	1.4	86
22	IMOS National Reference Stations: A Continental-Wide Physical, Chemical and Biological Coastal Observing System. <i>PLoS ONE</i> , 2014, 9, e113652.	2.5	81
23	Determining the Diet of Larvae of Western Rock Lobster ( <i>Panulirus cygnus</i> ) Using High-Throughput DNA Sequencing Techniques. <i>PLoS ONE</i> , 2012, 7, e42757.	2.5	79
24	Survey of selenium requirements in marine phytoplankton. <i>Marine Ecology - Progress Series</i> , 1988, 47, 89-96.	1.9	77
25	SELENIUM: AN ESSENTIAL ELEMENT FOR GROWTH OF THE COASTAL MARINE DIATOM <i>THALASSIOSIRA PSEUDONANA</i> (BACILLARIOPHYCEAE) <sup>1,2</sup> . <i>Journal of Phycology</i> , 1987, 23, 1-9.	2.3	72
26	Oceanography, primary production and dissolved inorganic nitrogen uptake in two Leeuwin Current eddies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 981-1002.	1.4	71
27	Nutritional value of diets that vary in fatty acid composition for larval Pacific oysters ( <i>Crassostrea</i> ) Tj ETQq1 1 0.784314 rgBT/Overl	3.5	70
28	Contrasting the vertical differences in the phytoplankton biology of a dipole pair of eddies in the south-eastern Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1003-1028.	1.4	70
29	SELENIUM: AN ESSENTIAL ELEMENT FOR GROWTH OF THE COASTAL MARINE DIATOM <i>THALASSIOSIRA PSEUDONANA</i> (BACILLARIOPHYCEAE) <sup>1,2</sup> . <i>Journal of Phycology</i> , 1987, 23, 1-9.	2.3	68
30	Applied coastal biogeochemical modelling to quantify the environmental impact of fish farm nutrients and inform managers. <i>Journal of Marine Systems</i> , 2010, 81, 134-147.	2.1	67
31	Saturated uptake kinetics: transient response of the marine diatom <i>Thalassiosira pseudonana</i> to ammonium, nitrate, silicate or phosphate starvation. <i>Marine Biology</i> , 1984, 83, 51-59.	1.5	61
32	Identifying indicators and essential variables for marine ecosystems. <i>Ecological Indicators</i> , 2015, 57, 409-419.	6.3	60
33	Carbon-isotope fractionation by a marine diatom: The influence of irradiance, daylength, pH, and nitrogen source. <i>Limnology and Oceanography</i> , 1994, 39, 1835-1844.	3.1	56
34	Genetic improvement of the Pacific oyster <i>Crassostrea gigas</i> (Thunberg) in Australia. <i>Aquaculture Research</i> , 2000, 31, 35-44.	1.8	56
35	The effects of crude oil and Corexit 9527 on marine phytoplankton in an experimental enclosure. <i>Marine Environmental Research</i> , 1986, 18, 93-109.	2.5	55
36	Nutrient and plankton dynamics in the Fraser River plume, Strait of Georgia, British Columbia. <i>Marine Ecology - Progress Series</i> , 1991, 70, 291-304.	1.9	55

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37	THE RESPONSE OF GROWTH AND BIOCHEMICAL COMPOSITION TO VARIATIONS IN DAYLENGTH, TEMPERATURE, AND IRRADIANCE IN THE MARINE DIATOM THALASSIOSIRA PSEUDONANA (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 1999, 35, 1215-1223.	2.3	52
38	The 1995 mass mortality of pilchard: no role found for physical or biological oceanographic factors in Australia. <i>Marine and Freshwater Research</i> , 1997, 48, 27.	1.3	51
39	Contrasting oceanographic conditions and phytoplankton communities on the east and west coasts of Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 645-663.	1.4	51
40	Stable carbon isotopes as pelagic food web tracers in adjacent shelf and slope regions off British Columbia, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 2477-2486.	1.4	47
41	Precipitation as a driver of phytoplankton ecology in coastal waters: A climatic perspective. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 162, 119-129.	2.1	47
42	Vertical migration of the toxic dinoflagellate <i>Gymnodinium catenatum</i> under different concentrations of nutrients and humic substances in culture. <i>Harmful Algae</i> , 2006, 5, 665-677.	4.8	46
43	Nutrient limitation of phytoplankton in the upper Swan River estuary, Western Australia. <i>Marine and Freshwater Research</i> , 1996, 47, 659.	1.3	42
44	Spatial and Temporal Patterns of Factors Influencing Phytoplankton in a Salt Wedge Estuary, the Swan River, Western Australia. <i>Estuaries and Coasts</i> , 1998, 21, 801.	1.7	42
45	NUTRIENT LIMITATION OF PHYTOPLANKTON IN A SEASONALLY OPEN BAR-BUILT ESTUARY: WILSON INLET, WESTERN AUSTRALIA. <i>Journal of Phycology</i> , 2001, 37, 16-29.	2.3	42
46	Nutrients in an oligotrophic boundary current: Evidence of a new role for the Leeuwin Current. <i>Progress in Oceanography</i> , 2011, 91, 345-359.	3.2	42
47	Studies on triploid oysters in Australia. <i>Aquaculture</i> , 2004, 233, 93-107.	3.5	40
48	Phytoplankton blooms in the Huon Estuary, Tasmania: top-down or bottom-up control?. <i>Journal of Plankton Research</i> , 2008, 30, 735-753.	1.8	40
49	Unicellular diazotrophy as a source of nitrogen to Leeuwin Current coastal eddies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1045-1054.	1.4	39
50	Physical and chemical signatures of a developing anticyclonic eddy in the Leeuwin Current, eastern Indian Ocean. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
51	Review of fluorescent standards for calibration of in situ fluorometers: Recommendations applied in coastal and ocean observing programs. <i>Optics Express</i> , 2011, 19, 26768.	3.4	36
52	Fussy Feeders: Phyllosoma Larvae of the Western Rocklobster ( <i>Panulirus cygnus</i> ) Demonstrate Prey Preference. <i>PLoS ONE</i> , 2012, 7, e36580.	2.5	36
53	The role of the Leeuwin Current and mixed layer depth on the autumn phytoplankton bloom off Ningaloo Reef, Western Australia. <i>Continental Shelf Research</i> , 2012, 32, 22-35.	1.8	36
54	The contributions of nitrate uptake and efflux to isotope fractionation during algal nitrate assimilation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 391-412.	3.9	36

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55	Nutrient uplift in a cyclonic eddy increases diversity, primary productivity and iron demand of microbial communities relative to a western boundary current. <i>PeerJ</i> , 2016, 4, e1973.	2.0	35
56	Larval fish assemblages and particle back-tracking define latitudinal and cross-shelf variability in an eastern Indian Ocean boundary current. <i>Marine Ecology - Progress Series</i> , 2012, 460, 127-144.	1.9	34
57	The wineglass effect shapes particle export to the deep ocean in mesoscale eddies. <i>Geophysical Research Letters</i> , 2016, 43, 9791-9800.	4.0	34
58	Decadal-Scale Forecasting of Climate Drivers for Marine Applications. <i>Advances in Marine Biology</i> , 2016, 74, 1-68.	1.4	34
59	VARIABILITY IN NITRATE UPTAKE KINETICS IN THALASSIOSIRA PSEUDONANA (BACILLARIOPHYCEAE)1. <i>Journal of Phycology</i> , 1991, 27, 35-39.	2.3	32
60	Carbon isotope fractionation by <i>Emiliana huxleyi</i> . <i>Limnology and Oceanography</i> , 1995, 40, 673-679.	3.1	32
61	Effects of starvation and feeding on the fatty acid profiles of Stage I phyllosoma of the spiny lobster, <i>Jasus edwardsii</i> . <i>Aquaculture Research</i> , 2003, 34, 419-426.	1.8	32
62	Genotype×environment interactions for weight in Pacific oysters ( <i>Crassostrea gigas</i> ) on five Australian farms. <i>Aquaculture</i> , 2007, 265, 91-101.	3.5	29
63	An experimental marine ecosystem response to crude oil and Corexit 9527: Part 2—Biological effects. <i>Marine Environmental Research</i> , 1984, 13, 265-275.	2.5	28
64	Phytoplankton community structure and nitrogen nutrition in Leeuwin Current and coastal waters off the Gascoyne region of Western Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 902-924.	1.4	28
65	Characterisation of water masses and phytoplankton nutrient limitation in the East Australian Current separation zone during spring 2008. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 664-677.	1.4	28
66	Phytoplankton responses to wastewater discharges at two sites in Western Australia. <i>Marine and Freshwater Research</i> , 2003, 54, 721.	1.3	26
67	Development of rapid ammonium uptake during starvation of batch and chemostat cultures of the marine diatom <i>Thalassiosira pseudonana</i> . <i>Marine Biology</i> , 1984, 83, 43-50.	1.5	24
68	Feeding territoriality in migrant rufous hummingbirds: defense of yellow-bellied sapsucker ( <i>Sphyrapicus varius</i> ) feeding sites. <i>Canadian Journal of Zoology</i> , 1982, 60, 2046-2050.	1.0	23
69	The effect of embryo incubation temperature on indicators of larval viability in Stage I phyllosoma of the spiny lobster, <i>Jasus edwardsii</i> . <i>Aquaculture</i> , 2002, 209, 157-167.	3.5	23
70	The influence of light quality on akinete formation and germination in the toxic cyanobacterium <i>Anabaena circinalis</i> . <i>Harmful Algae</i> , 2009, 8, 504-512.	4.8	23
71	A continental shelf scale examination of the Leeuwin Current off Western Australia during the austral autumn—winter. <i>Continental Shelf Research</i> , 2011, 31, 1858-1868.	1.8	23
72	Changes in latitude and dominant diazotrophic community alter N <sub>2</sub> fixation. <i>Marine Ecology - Progress Series</i> , 2014, 516, 85-102.	1.9	23

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73	A database of marine phytoplankton abundance, biomass and species composition in Australian waters. <i>Scientific Data</i> , 2016, 3, 160043.	5.3	22
74	Phytoplankton of the Swan-Canning Estuary: a comparison of nitrogen uptake by different bloom assemblages. <i>Hydrological Processes</i> , 2001, 15, 2579-2594.	2.6	21
75	Fatty acid profiles of phyllosoma larvae of western rock lobster ( <i>Panulirus cygnus</i> ) in cyclonic and anticyclonic eddies of the Leeuwin Current off Western Australia. <i>Progress in Oceanography</i> , 2014, 122, 153-162.	3.2	21
76	Proactive, Reactive, and Inactive Pathways for Scientists in a Changing World. <i>Earth's Future</i> , 2019, 7, 60-73.	6.3	21
77	Climate variability drives plankton community composition changes: the 2010–2011 El Niño to La Niña transition around Australia. <i>Journal of Plankton Research</i> , 2015, 37, 966-984.	1.8	20
78	Dynamics of a cyanobacterial bloom in a hypereutrophic, stratified weir pool. <i>Marine and Freshwater Research</i> , 2003, 54, 27.	1.3	19
79	Primary production and phytoplankton community structure during a winter shelf-scale phytoplankton bloom off Western Australia. <i>Marine Biology</i> , 2013, 160, 355-369.	1.5	19
80	The zooplankton prey field for rock lobster phyllosoma larvae in relation to oceanographic features of the south-eastern Indian Ocean. <i>Journal of Plankton Research</i> , 2014, 36, 1003-1016.	1.8	19
81	Production and ecosystem structure in cold-core vs. warm-core eddies: Implications for the zooplankton isoscape and rock lobster larvae. <i>Limnology and Oceanography</i> , 2019, 64, 2405-2423.	3.1	19
82	Changes in growth, internode distance and nutrient concentrations of the seagrass <i>Halophila ovalis</i> with exposure to sediment sulphide. <i>Marine Ecology - Progress Series</i> , 2008, 361, 83-91.	1.9	19
83	Interdisciplinary knowledge exchange across scales in a globally changing marine environment. <i>Global Change Biology</i> , 2018, 24, 3039-3054.	9.5	18
84	Influence of irradiance on the nutritional value of two phytoplankton species fed to larval Japanese scallops ( <i>Patinopecten yessoensis</i> ). <i>Marine Biology</i> , 1994, 119, 89-97.	1.5	17
85	Sources of new nitrogen in the Indian Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1283-1297.	4.9	16
86	Reduction of the Powerful Greenhouse Gas N <sub>2</sub> O in the South-Eastern Indian Ocean. <i>PLoS ONE</i> , 2016, 11, e0145996.	2.5	16
87	Ecophysiological influence of light and mixing on <i>Anabaena circinalis</i> (Nostocales, Cyanobacteria). <i>European Journal of Phycology</i> , 2005, 40, 9-20.	2.0	15
88	Cross-shelf transport, oxygen depletion, and nitrate release within a forming mesoscale eddy in the eastern Indian Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 103-121.	3.1	15
89	Phenotypic variation in N uptake by <i>Laminaria groenlandica</i> Rosenvinge (Laminariales, Phaeophyta). <i>Journal of Experimental Marine Biology and Ecology</i> , 1989, 127, 155-164.	1.5	14
90	The effect of changes in light availability caused by mixing on the growth of <i>Anabaena circinalis</i> (Nostocales, Cyanobacteria) and <i>Aulacoseira</i> sp. (Centrales, Bacillariophyceae). <i>Phycologia</i> , 2001, 40, 530-541.	1.4	14

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91	Temporal variability of phytoplankton in a salt wedge estuary, the Swan-Canning Estuary, Western Australia. <i>Hydrological Processes</i> , 2001, 15, 2617-2630.	2.6	14
92	Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia. <i>Journal of Marine Systems</i> , 2015, 148, 26-38.	2.1	14
93	A database of chlorophyll a in Australian waters. <i>Scientific Data</i> , 2018, 5, 180018.	5.3	14
94	Microbial communities of subtidal shallow sandy sediments change with depth and wave disturbance, but nutrient exchanges remain similar. <i>Marine Ecology - Progress Series</i> , 2010, 414, 11-26.	1.9	14
95	The influence of three algal filtrates on the grazing rate of larval oysters ( <i>Crassostrea gigas</i> ), determined by fluorescent microspheres. <i>Aquaculture</i> , 1994, 119, 237-247.	3.5	13
96	Use of a coastal biogeochemical model to select environmental monitoring sites. <i>Journal of Marine Systems</i> , 2011, 88, 120-127.	2.1	13
97	Baseline biogeochemical data from Australia's continental margin links seabed sediments to water column characteristics. <i>Marine and Freshwater Research</i> , 2017, 68, 1593.	1.3	13
98	Limited nutritional benefit to the seagrass <i>Halophila ovalis</i> , in culture, following sediment organic matter enrichment. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 68, 675-685.	2.1	12
99	Effects of light, temperature and salinity on the growth rate of harmful marine diatoms, <i>Chaetoceros convolutus</i> and <i>C. concavicornis</i> that kill netpen salmon. <i>Journal of Applied Phycology</i> , 1993, 5, 259-265.	2.8	10
100	Formation and maintenance of high-nitrate, low pH layers in the eastern Indian Ocean and the role of nitrogen fixation. <i>Biogeosciences</i> , 2013, 10, 5691-5702.	3.3	10
101	Phyllosomata associated with large gelatinous zooplankton: hitching rides and stealing bites. <i>ICES Journal of Marine Science</i> , 2015, 72, i124-i127.	2.5	10
102	Ammonium uptake by phytoplankton cells on a filter: a new high-resolution technique. <i>Marine Ecology - Progress Series</i> , 1985, 25, 121-129.	1.9	10
103	Diurnal changes of photoadaptive pigments in microphytobenthos. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2010, 90, 1025-1032.	0.8	9
104	Condition of larvae of western rock lobster ( <i>Panulirus cygnus</i> ) in cyclonic and anticyclonic eddies of the Leeuwin Current off Western Australia. <i>Marine and Freshwater Research</i> , 2015, 66, 1158.	1.3	9
105	POLYMERIZATION OF SILICA IN ACIDIC SOLUTIONS: A NOTE OF CAUTION TO PHYCOLOGISTS. <i>Journal of Phycology</i> , 1986, 22, 234-237.	2.3	8
106	Bio-optical variability in multiple water masses across a tropical shelf: Implications for ocean colour remote sensing models. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 219, 223-230.	2.1	8
107	Quantitative Foresighting as a Means of Improving Anticipatory Scientific Capacity and Strategic Planning. <i>One Earth</i> , 2020, 3, 631-644.	6.8	8
108	Use of a Self-Cleaning, In-line Filter to Continuously Monitor Phytoplankton Nutrient Uptake Rates. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1984, 41, 540-544.	1.4	7

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109	POLYMERIZATION OF SILICA IN ACIDIC SOLUTIONS: A NOTE OF CAUTION TO PHYCOLOGISTS. <i>Journal of Phycology</i> , 1986, 22, 234-237.	2.3	7
110	A National Reference Station infrastructure for Australia - Using telemetry and central processing to report multi-disciplinary data streams for monitoring marine ecosystem response to climate change. , 2008, , .		6
111	Stable carbon isotopes as pelagic food web tracers in adjacent shelf and slope regions off British Columbia, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 2477-2486.	1.4	6
112	Dynamic change in an ocean desert: Microbial diversity and trophic transfer along the 110 °E meridional in the Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 201, 105097.	1.4	6
113	Effects of shelter and enrichment on the ecology and nutrient cycling of microbial communities of subtidal carbonate sediments. <i>FEMS Microbiology Ecology</i> , 2012, 80, 64-76.	2.7	5
114	Global observing for phytoplankton? A perspective. <i>Journal of Plankton Research</i> , 2023, 45, 221-234.	1.8	3
115	Preliminary observations of the summer production of three British Columbian coastal inlets. <i>Sarsia</i> , 1986, 71, 161-168.	0.5	2