

Peter D Nichols

List of Publications by Year in descending order

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74
papers

7,783
citations

50244

46
h-index

76872

74
g-index

77
all docs

77
docs citations

77
times ranked

7414
citing authors

#	ARTICLE	IF	CITATIONS
1	Feeding aquaculture in an era of finite resources. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15103-15110.	3.3	1,111
2	Phospholipid, ester-linked fatty acid profiles as reproducible assays for changes in prokaryotic community structure of estuarine sediments. FEMS Microbiology Letters, 1985, 31, 147-158.	0.7	597
3	Determination of monosaturated fatty acid double-bond position and geometry for microbial monocultures and complex consortia by capillary GC-MS of their dimethyl disulphide adducts. Journal of Microbiological Methods, 1986, 5, 49-55.	0.7	388
4	Evaluation of extraction methods for recovery of fatty acids from lipid-producing microheterotrophs. Journal of Microbiological Methods, 2000, 43, 107-116.	0.7	338
5	Metabolic engineering of biomass for high energy density: oilseed-like triacylglycerol yields from plant leaves. Plant Biotechnology Journal, 2014, 12, 231-239.	4.1	256
6	Acid habituation of Escherichia coli and the potential role of cyclopropane fatty acids in low pH tolerance. International Journal of Food Microbiology, 1997, 37, 163-173.	2.1	235
7	The Biotechnological Potential of Thraustochytrids. Marine Biotechnology, 1999, 1, 580-587.	1.1	194
8	Effects of bacterial exopolymer adhesion on the entrainment of sand. Geomicrobiology Journal, 1990, 8, 1-16.	1.0	179
9	Chemical Characterization of Exopolysaccharides from Antarctic Marine Bacteria. Microbial Ecology, 2005, 49, 578-589.	1.4	164
10	Phospholipid fatty acid and lipopolysaccharide fatty acid signature lipids in methane-utilizing bacteria. FEMS Microbiology Letters, 1991, 85, 15-22.	0.7	157
11	Replacement of fish oil with sunflower oil in feeds for Atlantic salmon (<i>Salmo salar</i> L.): effect on growth performance, tissue fatty acid composition and disease resistance. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 135, 611-625.	0.7	154
12	Fourier transform-infrared spectroscopic methods for microbial ecology: analysis of bacteria, bacteri-polymer mixtures and biofilms. Journal of Microbiological Methods, 1985, 4, 79-94.	0.7	151
13	<i>n</i>-3 Oil sources for use in aquaculture – alternatives to the unsustainable harvest of wild fish. Nutrition Research Reviews, 2008, 21, 85-96.	2.1	143
14	Taxonomy, ecology and biotechnological applications of thraustochytrids: A review. Biotechnology Advances, 2018, 36, 26-46.	6.0	141
15	Replacement of fish oil with thraustochytrid Schizochytrium sp. L oil in Atlantic salmon parr (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT /Overlaid Physiology, 2007, 148, 382-392.	0.8	140
16	Metabolic engineering of Arabidopsis to produce nutritionally important DHA in seed oil. Functional Plant Biology, 2005, 32, 473.	1.1	127
17	Metabolic Engineering Plant Seeds with Fish Oil-Like Levels of DHA. PLoS ONE, 2012, 7, e49165.	1.1	126
18	Lipid and fatty acid yield of nine stationary-phase microalgae: Applications and unusual C24&C28 polyunsaturated fatty acids. Journal of Applied Phycology, 2005, 17, 287-300.	1.5	125

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19	Phospholipid and lipopolysaccharide normal and hydroxy fatty acids as potential signatures for methane-oxidizing bacteria. <i>FEMS Microbiology Letters</i> , 1985, 31, 327-335.	0.7	119
20	Lipid, FA, and sterol composition of New Zealand green lipped mussel (<i>Perna canaliculus</i>) and tasmanian blue mussel (<i>Mytilus edulis</i>). <i>Lipids</i> , 2002, 37, 587-595.	0.7	114
21	Progress in Understanding Algal Bloom-Mediated Fish Kills: The Role of Superoxide Radicals, Phycotoxins and Fatty Acids. <i>PLoS ONE</i> , 2015, 10, e0133549.	1.1	112
22	Polyunsaturated fatty acids in Antarctic bacteria. <i>Antarctic Science</i> , 1993, 5, 149-160.	0.5	109
23	Interannual and between species comparison of the lipids, fatty acids and sterols of Antarctic krill from the US AMLR Elephant Island survey area. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 131, 733-747.	0.7	107
24	Comparison of Thraustochytrids <i>Aurantiochytrium</i> sp., <i>Schizochytrium</i> sp., <i>Thraustochytrium</i> sp., and <i>Ulkenia</i> sp. for Production of Biodiesel, Long-Chain Omega-3 Oils, and Exopolysaccharide. <i>Marine Biotechnology</i> , 2014, 16, 396-411.	1.1	104
25	Biodiscovery of new Australian thraustochytrids for production of biodiesel and long-chain omega-3 oils. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2215-2231.	1.7	102
26	Validation of signature polarlipid fatty acid biomarkers for alkane-utilizing bacteria in soils and subsurface aquifer materials. <i>FEMS Microbiology Letters</i> , 1989, 62, 39-50.	0.7	100
27	Lipids and trophodynamics of Antarctic zooplankton. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 120, 311-323.	0.7	99
28	Long-Chain Omega-3 Oils—An Update on Sustainable Sources. <i>Nutrients</i> , 2010, 2, 572-585.	1.7	99
29	Lipids of Antarctic Ocean amphipods: food chain interactions and the occurrence of novel biomarkers. <i>Marine Chemistry</i> , 2001, 73, 53-64.	0.9	97
30	Lipid, fatty acid and squalene composition of liver oil from six species of deep-sea sharks collected in southern australian waters. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995, 110, 267-275.	0.7	94
31	Comparison of growth and lipid composition in the green abalone, <i>Haliotis fulgens</i> , provided specific macroalgal diets. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 131, 695-712.	0.7	84
32	Readily Available Sources of Long-Chain Omega-3 Oils: Is Farmed Australian Seafood a Better Source of the Good Oil than Wild-Caught Seafood?. <i>Nutrients</i> , 2014, 6, 1063-1079.	1.7	81
33	Signature fatty acids in the polar lipids of acid-producing <i>Thiobacillus</i> spp.: Methoxy, cyclopropyl, alpha-hydroxy-cyclopropyl and branched and normal monoenoic fatty acids. <i>FEMS Microbiology Letters</i> , 1986, 38, 67-77.	0.7	71
34	Replacement of dietary fish oil for Atlantic salmon parr (<i>Salmo salar</i> L.) with a stearidonic acid containing oil has no effect on omega-3 long-chain polyunsaturated fatty acid concentrations. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007, 146, 197-206.	0.7	71
35	Hydrocarbons and sterols in marine sediments and soils at Davis Station, Antarctica: a survey for human-derived contaminants. <i>Antarctic Science</i> , 1995, 7, 137-144.	0.5	70
36	Fatty acid, sterol and hydrocarbon composition of Antarctic sea ice diatom communities during the spring bloom in McMurdo Sound. <i>Antarctic Science</i> , 1993, 5, 271-278.	0.5	67

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37	DHA-Containing Oilseed: A Timely Solution for the Sustainability Issues Surrounding Fish Oil Sources of the Health-Benefitting Long-Chain Omega-3 Oils. <i>Nutrients</i> , 2014, 6, 2035-2058.	1.7	66
38	Detection of a microbial consortium, including type II methanotrophs, by use of phospholipid fatty acids in an aerobic halogenated hydrocarbon-degrading soil column enriched with natural gas. <i>Environmental Toxicology and Chemistry</i> , 1987, 6, 89-97.	2.2	65
39	Lipids of gelatinous antarctic zooplankton: Cnidaria and Ctenophora. <i>Lipids</i> , 2000, 35, 551-559.	0.7	65
40	Measurement of methanotroph and methanogen signature phospholipids for use in assessment of biomass and community structure in model systems. <i>Organic Geochemistry</i> , 1987, 11, 451-461.	0.9	61
41	High cell density cultivation of a novel <i>Aurantiochytrium</i> sp. strain TC 20 in a fed-batch system using glycerol to produce feedstock for biodiesel and omega-3 oils. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6907-6918.	1.7	59
42	Direct determination of fatty acids in fish tissues: quantifying top predator trophic connections. <i>Oecologia</i> , 2015, 177, 85-95.	0.9	57
43	The ω -3 LC-PUFA sparing effect of modified dietary ω -3 LC-PUFA content and DHA to EPA ratio in Atlantic salmon smolt. <i>Aquaculture</i> , 2012, 356-357, 135-140.	1.7	55
44	Jumping on the Omega-3 Bandwagon: Distinguishing the Role of Long-Chain and Short-Chain Omega-3 Fatty Acids. <i>Critical Reviews in Food Science and Nutrition</i> , 2012, 52, 795-803.	5.4	55
45	Lipids and buoyancy in Southern Ocean pteropods. <i>Lipids</i> , 1997, 32, 1093-1100.	0.7	52
46	Spatial Patterns and Temperature Predictions of Tuna Fatty Acids: Tracing Essential Nutrients and Changes in Primary Producers. <i>PLoS ONE</i> , 2015, 10, e0131598.	1.1	52
47	Recruiting a New Substrate for Triacylglycerol Synthesis in Plants: The Monoacylglycerol Acyltransferase Pathway. <i>PLoS ONE</i> , 2012, 7, e35214.	1.1	45
48	Development of a <i>Brassica napus</i> (Canola) Crop Containing Fish Oil-Like Levels of DHA in the Seed Oil. <i>Frontiers in Plant Science</i> , 2020, 11, 727.	1.7	45
49	Enrichment of the rotifer <i>Brachionus plicatilis</i> fed an Antarctic bacterium containing polyunsaturated fatty acids. <i>Aquaculture</i> , 1996, 147, 115-125.	1.7	44
50	Polyunsaturated fatty acids in the psychrophilic bacterium <i>Shewanella gelidimarina</i> ACAM 456T: molecular species analysis of major phospholipids and biosynthesis of eicosapentaenoic acid. <i>Lipids and Lipid Metabolism</i> , 1997, 1347, 164-176.	2.6	42
51	Sustainable alternatives to dietary fish oil in tropical fish aquaculture. <i>Reviews in Aquaculture</i> , 2019, 11, 1195-1218.	4.6	42
52	Nutritional and bacterial profiles of juvenile <i>Artemia</i> fed different enrichments and during starvation. <i>Aquaculture</i> , 2004, 239, 351-373.	1.7	39
53	Life cycle assessment: heterotrophic cultivation of thraustochytrids for biodiesel production. <i>Journal of Applied Phycology</i> , 2015, 27, 639-647.	1.5	38
54	Simultaneous estimation of microbial phospholipid fatty acids and diether lipids by capillary gas chromatography. <i>Journal of Microbiological Methods</i> , 1996, 25, 177-185.	0.7	37

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55	Screening of new British thraustochytrids isolates for docosahexaenoic acid (DHA) production. <i>Journal of Applied Phycology</i> , 2017, 29, 2831-2843.	1.5	36
56	Effect of feeding Atlantic salmon (<i>Salmo salar</i> L.) a diet enriched with stearidonic acid from parr to smolt on growth and n-3 long-chain PUFA biosynthesis. <i>British Journal of Nutrition</i> , 2011, 105, 1772-1782.	1.2	35
57	Phospholipid fatty acid and infra-red spectroscopic analysis of a sulphate-reducing consortium. <i>FEMS Microbiology Letters</i> , 1988, 53, 325-333.	0.7	34
58	The Digestibility and Accumulation of Dietary Phytosterols in Atlantic Salmon (<i>Salmo salar</i> L.) Smolt Fed Diets with Replacement Plant Oils. <i>Lipids</i> , 2008, 43, 549-557.	0.7	32
59	State of art and best practices for fatty acid analysis in aquatic sciences. <i>ICES Journal of Marine Science</i> , 2020, 77, 2375-2395.	1.2	32
60	Anaerobic production of polyunsaturated fatty acids by <i>Shewanella putrefaciens</i> strain ACAM 342. <i>FEMS Microbiology Letters</i> , 1992, 98, 117-122.	0.7	27
61	Transgenic production of arachidonic acid in oilseeds. <i>Transgenic Research</i> , 2012, 21, 139-147.	1.3	27
62	Enrichment of Rotifers <i>Brachionus plicatilis</i> with Eicosapentaenoic Acid and Docosahexaenoic Acid Produced by Bacteria. <i>Journal of the World Aquaculture Society</i> , 1998, 29, 313-318.	1.2	22
63	Association of acid-producing thiobacilli with degradation of concrete: analysis by "signature" fatty acids from the polar lipids and lipopolysaccharide. <i>Journal of Industrial Microbiology</i> , 1987, 2, 63-69.	0.9	21
64	LIPIDS AND CHEMOTAXONOMY OF <i>PROCHLOROTHRIX HOLLANDICA</i> , A PLANKTONIC PROKARYOTE CONTAINING CHLOROPHYLLS a AND b. <i>Journal of Phycology</i> , 1988, 24, 554-559.	1.0	21
65	Restoration of EPA and DHA in rainbow trout (<i>Oncorhynchus mykiss</i>) using a finishing fish oil diet at two different water temperatures. <i>Food Chemistry</i> , 2013, 141, 236-244.	4.2	20
66	Future aquafeeds may compromise reproductive fitness in a marine invertebrate. <i>Marine Environmental Research</i> , 2016, 122, 67-75.	1.1	20
67	Determination of the double bond position and geometry in monoenoic fatty acids from complex microbial and environmental samples by capillary GC-MS of their Diels-Alder adducts. <i>Journal of Microbiological Methods</i> , 1985, 3, 311-319.	0.7	18
68	LIPIDS AND CHEMOTAXONOMY OF <i>PROCHLOROTHRIX HOLLANDICA</i> , A PLANKTONIC PROKARYOTE CONTAINING CHLOROPHYLLS a AND b. <i>Journal of Phycology</i> , 1988, 24, 554-559.	1.0	17
69	Fatty acid composition of Antarctic and temperate fish of commercial interest. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1994, 107, 357-363.	0.2	16
70	Microbial signature lipid profiling and exopolysaccharides: Experiences initiated with Professor David C White and transported to Tasmania, Australia. <i>Journal of Microbiological Methods</i> , 2008, 74, 33-46.	0.7	14
71	Restoration of Fillet n-3 Long-Chain Polyunsaturated Fatty Acid Is Improved by a Modified Fish Oil Finishing Diet Strategy for Atlantic Salmon (<i>Salmo salar</i> L.) Smolts Fed Palm Fatty Acid Distillate. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 458-466.	2.4	14
72	Triacylglycerol fatty acid and sterol composition of sediment microorganisms from McMurdo Sound, Antarctica. <i>Polar Biology</i> , 1989, 9, 273-279.	0.5	9

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73	Comparative benzene-induced fatty acid changes in a <i>Rhodococcus</i> species and its benzene-sensitive mutant: possible role of myristic and oleic acids in tolerance. <i>Journal of Chemical Ecology</i> , 2003, 29, 2369-2378.	0.9	9
74	Phospholipid fatty acid and lipopolysaccharide fatty acid signature lipids in methane-utilizing bacteria. <i>FEMS Microbiology Ecology</i> , 1991, 8, 15-21.	1.3	6