

# Suzanne M Budge

## List of Publications by Citations

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85  
papers

3,133  
citations

29  
h-index

54  
g-index

89  
ext. papers

3,540  
ext. citations

3.1  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
85	STUDYING TROPHIC ECOLOGY IN MARINE ECOSYSTEMS USING FATTY ACIDS: A PRIMER ON ANALYSIS AND INTERPRETATION. <i>Marine Mammal Science</i> , <b>2006</b> , 22, 759-801	1.9	406
84	Lipid biogeochemistry of plankton, settling matter and sediments in Trinity Bay, Newfoundland. II. Fatty acids. <i>Organic Geochemistry</i> , <b>1998</b> , 29, 1547-1559	3.1	231
83	Non-edible plant oils as new sources for biodiesel production. <i>International Journal of Molecular Sciences</i> , <b>2008</b> , 9, 169-80	6.3	212
82	Among- and within-species variability in fatty acid signatures of marine fish and invertebrates on the Scotian Shelf, Georges Bank, and southern Gulf of St. Lawrence. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2002</b> , 59, 886-898	2.4	177
81	Production of Biodiesel by Enzymatic Transesterification: Review. <i>American Journal of Biochemistry and Biotechnology</i> , <b>2010</b> , 6, 54-76	0.4	165
80	Tracing carbon flow in an arctic marine food web using fatty acid-stable isotope analysis. <i>Oecologia</i> , <b>2008</b> , 157, 117-29	2.9	156
79	Variation in the response of an Arctic top predator experiencing habitat loss: feeding and reproductive ecology of two polar bear populations. <i>Global Change Biology</i> , <b>2014</b> , 20, 76-88	11.4	151
78	Fatty acid composition of phytoplankton, settling particulate matter and sediments at a sheltered bivalve aquaculture site. <i>Marine Chemistry</i> , <b>2001</b> , 76, 285-303	3.7	138
77	Morphological and thermal properties of mammalian insulation: the evolutionary transition to blubber in pinnipeds. <i>Biological Journal of the Linnean Society</i> , <b>2012</b> , 107, 774-787	1.9	70
76	Estimating diets of Atlantic salmon ( <i>Salmo salar</i> ) using fatty acid signature analyses; validation with controlled feeding studies. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2012</b> , 69, 1033-1046	2.4	63
75	Fatty acid biomarkers reveal niche separation in an Arctic benthic food web. <i>Marine Ecology - Progress Series</i> , <b>2007</b> , 336, 305-309	2.6	55
74	Antimicrobial activity of cyclodextrin entrapped allyl isothiocyanate in a model system and packaged fresh-cut onions. <i>Food Microbiology</i> , <b>2012</b> , 30, 213-8	6	54
73	Fatty acid and stable isotope characteristics of sea ice and pelagic particulate organic matter in the Bering Sea: tools for estimating sea ice algal contribution to Arctic food web production. <i>Oecologia</i> , <b>2014</b> , 174, 699-712	2.9	50
72	Importance of sympagic production to Bering Sea zooplankton as revealed from fatty acid-carbon stable isotope analyses. <i>Marine Ecology - Progress Series</i> , <b>2015</b> , 518, 31-50	2.6	48
71	Quality analysis of commercial fish oil preparations. <i>Journal of the Science of Food and Agriculture</i> , <b>2013</b> , 93, 1935-9	4.3	48
70	Response of tissue lipids to diet variation in Atlantic salmon ( <i>Salmo salar</i> ): Implications for estimating diets with fatty acid analysis. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2011</b> , 409, 267-274	2.1	47
69	Lipid class and fatty acid composition of <i>Pseudo-nitzschia multiseries</i> and <i>Pseudo-nitzschia pungens</i> and effects of lipolytic enzyme deactivation. <i>Phytochemistry</i> , <b>1999</b> , 52, 561-566	4	43

68	Blubber fatty acid composition of bowhead whales, <i>Balaena mysticetus</i> : Implications for diet assessment and ecosystem monitoring. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2008</b> , 359, 40-46	2.1	38
67	Effect of feeding fresh forage and marine algae on the fatty acid composition and oxidation of milk and butter. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 2797-809	4	37
66	Topographical distribution of lipids inside the mandibular fat bodies of odontocetes: remarkable complexity and consistency. <i>IEEE Journal of Oceanic Engineering</i> , <b>2006</b> , 31, 95-106	3.3	37
65	Carbon isotopic fractionation in eider adipose tissue varies with fatty acid structure: implications for trophic studies. <i>Journal of Experimental Biology</i> , <b>2011</b> , 214, 3790-800	3	36
64	Techniques for the Analysis of Minor Lipid Oxidation Products Derived from Triacylglycerols: Epoxides, Alcohols, and Ketones. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2017</b> , 16, 735-758	16.4	33
63	Demonstration of the deposition and modification of dietary fatty acids in pinniped blubber using radiolabelled precursors. <i>Physiological and Biochemical Zoology</i> , <b>2004</b> , 77, 682-7	2	33
62	Estimating concentrations of essential omega-3 fatty acids in the ocean: supply and demand. <i>ICES Journal of Marine Science</i> , <b>2014</b> , 71, 1885-1893	2.7	32
61	Modeling the primary oxidation in commercial fish oil preparations. <i>Lipids</i> , <b>2011</b> , 46, 87-93	1.6	32
60	FA determination in cold water marine samples. <i>Lipids</i> , <b>2003</b> , 38, 781-91	1.6	32
59	Energy-Rich Mesopelagic Fishes Revealed as a Critical Prey Resource for a Deep-Diving Predator Using Quantitative Fatty Acid Signature Analysis. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	32
58	Key lipid oxidation products can be used to predict sensory quality of fish oils with different levels of EPA and DHA. <i>Lipids</i> , <b>2012</b> , 47, 1169-79	1.6	31
57	Distance measures and optimization spaces in quantitative fatty acid signature analysis. <i>Ecology and Evolution</i> , <b>2015</b> , 5, 1249-62	2.8	30
56	<sup>1</sup> H-NMR Characterization of Epoxides Derived from Polyunsaturated Fatty Acids. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2016</b> , 93, 467-478	1.8	29
55	Simultaneous estimation of diet composition and calibration coefficients with fatty acid signature data. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 6103-6113	2.8	28
54	New <sup>1</sup> H NMR-Based Technique To Determine Epoxide Concentrations in Oxidized Oil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 5780-6	5.7	28
53	Unusual fatty acid biomarkers reveal age- and sex-specific foraging in polar bears ( <i>Ursus maritimus</i> ). <i>Canadian Journal of Zoology</i> , <b>2007</b> , 85, 505-517	1.5	27
52	Electrochemical studies of the interfacial behaviour of lactalbumin and bovine serum albumin. <i>Food Research International</i> , <b>1997</b> , 30, 13-20	7	26
51	Assessing the robustness of quantitative fatty acid signature analysis to assumption violations. <i>Methods in Ecology and Evolution</i> , <b>2016</b> , 7, 51-59	7.7	25

50	Sourcing fatty acids to juvenile polar cod ( <i>Boreogadus saida</i> ) in the Beaufort Sea using compound-specific stable carbon isotope analyses. <i>Polar Biology</i> , <b>2014</b> , 37, 697-705	2	23
49	Extraction and Purification of Collagenase Enzymes: A Critical Review. <i>American Journal of Biochemistry and Biotechnology</i> , <b>2010</b> , 6, 239-263	0.4	23
48	Carbon sources and trophic relationships of ice seals during recent environmental shifts in the Bering Sea. <i>Ecological Applications</i> , <b>2016</b> , 26, 830-45	4.9	22
47	Quantitative analysis of fatty acid precursors in marine samples: direct conversion of wax ester alcohols and dimethylacetals to FAMES. <i>Journal of Lipid Research</i> , <b>2003</b> , 44, 1802-7	6.3	22
46	DETERMINING BLUBBER FATTY ACID COMPOSITION: A COMPARISON OF IN SITU DIRECT AND TRADITIONAL METHODS. <i>Marine Mammal Science</i> , <b>2004</b> , 20, 284-295	1.9	20
45	Resource partitioning by sympatric pagophilic seals in Alaska: monitoring effects of climate variation with fatty acids. <i>Polar Biology</i> , <b>2009</b> , 32, 1137-1145	2	19
44	Extraction, Purification and Characterization of Fish Chymotrypsin: A Review. <i>American Journal of Biochemistry and Biotechnology</i> , <b>2011</b> , 7, 104-125	0.4	17
43	Oxidation Rates of Triacylglycerol and Ethyl Ester Fish Oils. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2015</b> , 92, 561-569	1.8	16
42	Should fatty acid signature proportions sum to 1 for diet estimation?. <i>Ecological Research</i> , <b>2016</b> , 31, 597-606	16	16
41	Distribution and development of the highly specialized lipids in the sound reception systems of dolphins. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2009</b> , 179, 783-98	2.2	16
40	The critical importance of experimentation in biomarker-based trophic ecology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190638	5.8	15
39	The reactions of O(3P) with acetonitrile and propionitrile. <i>Canadian Journal of Chemistry</i> , <b>1995</b> , 73, 666-674	14	14
38	Large, omega-3 rich, pelagic diatoms under Arctic sea ice: sources and implications for food webs. <i>PLoS ONE</i> , <b>2014</b> , 9, e114070	3.7	13
37	Fish oil sensory properties can be predicted using key oxidative volatiles. <i>European Journal of Lipid Science and Technology</i> , <b>2012</b> , 114, 496-503	3	13
36	Structured and Specialty Lipids in Continuous Packed Column Reactors: Comparison of Production Using One and Two Enzyme Beds. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2010</b> , 87, 385-394	1.8	13
35	Fractionation of stable carbon isotopes of tissue fatty acids in Atlantic pollock ( <i>Pollachius virens</i> ). <i>Ecosphere</i> , <b>2016</b> , 7, e01437	3.1	12
34	Feeding ecologies of key bivalve and polychaete species in the Bering Sea as elucidated by fatty acid and compound-specific stable isotope analyses. <i>Marine Ecology - Progress Series</i> , <b>2016</b> , 557, 161-175	2.6	12
33	Intrapopulation variability in wolf diet revealed using a combined stable isotope and fatty acid approach. <i>Ecosphere</i> , <b>2018</b> , 9, e02420	3.1	12

32	Red Light Variation an Effective Alternative to Regulate Biomass and Lipid Profiles in <i>Phaeodactylum tricornutum</i> . <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2531	2.6	11
31	Stability of fatty acid composition in seal blubber during long-term storage. <i>Marine Ecology - Progress Series</i> , <b>2012</b> , 461, 283-291	2.6	11
30	State of art and best practices for fatty acid analysis in aquatic sciences. <i>ICES Journal of Marine Science</i> , <b>2020</b> , 77, 2375-2395	2.7	11
29	Determination of squalene in edible oils by transmethylation and GC analysis. <i>MethodsX</i> , <b>2019</b> , 6, 15-21	1.9	10
28	Fisheries Exploitation by Albatross Quantified With Lipid Analysis. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	9
27	Simultaneous quantification of epoxy and hydroxy fatty acids as oxidation products of triacylglycerols in edible oils. <i>Journal of Chromatography A</i> , <b>2018</b> , 1537, 83-90	4.5	8
26	Comment on Grahl-Nielsen et al. (2003) Fatty acid composition of the adipose tissue of polar bears and of their prey: ringed seals, bearded seals and harp seals <i>Marine Ecology - Progress Series</i> , <b>2004</b> , 281, 297-301	2.6	8
25	Resource partitioning between Pacific walruses and bearded seals in the Alaska Arctic and sub-Arctic. <i>Oecologia</i> , <b>2017</b> , 184, 385-398	2.9	7
24	Determining Ethyl Esters in Fish Oil with Solid Phase Microextraction and GC/MS. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2009</b> , 86, 743-748	1.8	7
23	Detect and exploit hidden structure in fatty acid signature data. <i>Ecosphere</i> , <b>2017</b> , 8, e01896	3.1	6
22	Flocculation, cell surface hydrophobicity and 3-OH oxylipins in the SMA strain of <i>Saccharomyces pastorianus</i> . <i>Journal of the Institute of Brewing</i> , <b>2015</b> , 121, 31-37	2	6
21	Lipids at the plant-animal interface: a stable isotope labelling method to evaluate the assimilation of essential fatty acids in the marine copepod <i>Calanus finmarchicus</i> . <i>Journal of Plankton Research</i> , <b>2019</b> , 41, 909-924	2.2	6
20	Characterization of blubber fatty acid signatures in northern elephant seals ( <i>Mirounga angustirostris</i> ) over the postweaning fast. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2013</b> , 183, 1065-74	2.2	5
19	Monitoring fish oil volatiles to assess the quality of fish oil. <i>Lipid Technology</i> , <b>2010</b> , 22, 230-232		5
18	Dietary fat concentrations influence fatty acid assimilation patterns in Atlantic pollock ( <i>Gadus atlanticus</i> ). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190649	5.8	5
17	Identification of unresolved complex mixtures (UCMs) of hydrocarbons in commercial fish oil supplements. <i>Journal of the Science of Food and Agriculture</i> , <b>2015</b> , 95, 423-8	4.3	4
16	Rapid method for determination of residual tert-butanol in liposomes using solid-phase microextraction and gas chromatography. <i>Journal of Chromatographic Science</i> , <b>2010</b> , 48, 289-93	1.4	4
15	The reactions of O(3P) with some carboxylic acids and esters. <i>Canadian Journal of Chemistry</i> , <b>1996</b> , 74, 516-523	0.9	4

14	Fatty acids and stable isotopes ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ ) in southern right whale <i>Eubalaena australis</i> calves in relation to age and mortality at Península Valdés, Argentina. <i>Marine Ecology - Progress Series</i> , <b>2020</b> , 646, 189-200	2.6	4
13	Modification of the Ferrous Oxidation-Xylenol Orange Method for Determination of Peroxide Value in Highly Pigmented Sea Cucumber Viscera Lipid. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2020</b> , 97, 509-516	1.8	3
12	GC-MS Characterization of Hydroxy Fatty Acids Generated From Lipid Oxidation in Vegetable Oils. <i>European Journal of Lipid Science and Technology</i> , <b>2018</b> , 120, 1700313	3	3
11	Beyond diazomethane: Alternative approaches to analyzing non-esterified fatty acids. <i>European Journal of Lipid Science and Technology</i> , <b>2015</b> , 117, 908-917	3	3
10	Exploring the sensitivity of quantitative fatty acid signature analysis to assumption violations (Supplementary Data). <i>Bulletin for the Study of Religion</i> ,	0.2	3
9	Flavors Decreasing Contribution to p-Anisidine Value over Shelf Life May Invalidate the Current Recommended Protocol for Flavored Fish Oils. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2020</b> , 97, 1335-1341	1.8	3
8	Ambient temperature and algal prey type affect essential fatty acid incorporation and trophic upgrading in a herbivorous marine copepod. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20200039	5.8	3
7	Color and fatty acid profile of abdominal fat pads from broiler chickens fed lobster meal. <i>Poultry Science</i> , <b>2011</b> , 90, 1329-33	3.9	2
6	Quantitative analysis of 3-OH oxylipins in fermentation yeast. <i>Canadian Journal of Microbiology</i> , <b>2017</b> , 63, 100-109	3.2	1
5	3-OH oxylipins in <i>Saccharomyces cerevisiae</i> . <i>Journal of the Institute of Brewing</i> , <b>2013</b> , 119, n/a-n/a	2	1
4	Fatty acid profiles of feeding and fasting bears: estimating calibration coefficients, the timeframe of diet estimates, and selective mobilization during hibernation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2021</b> , 192, 379	2.2	1
3	Stable isotope labeling reveals patterns in essential fatty acid growth efficiency in a lipid-poor coastal calanoid copepod. <i>Marine Biology</i> , <b>2020</b> , 167, 1	2.5	1
2	Compositional, ultrastructural and nanotechnological characterization of the SMA strain of <i>Saccharomyces pastorianus</i> : Towards a more complete fermentation yeast cell analysis. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200552	3.7	
1	Foraging ecology of nearshore fishes in the Gulf of Alaska. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2022</b> , 195, 105013	2.3	