Sara J Iverson

List of Publications by Year
in descending order

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96 papers	8,038 citations	71102 41 h-index	51608 86 g-index
97 all docs	97 docs citations	97 times ranked	6425 citing authors

#	Article	IF	Citations
1	Aquatic animal telemetry: A panoramic window into the underwater world. Science, 2015, 348, 1255642.	12.6	1,038
2	Comparison of the bligh and dyer and folch methods for total lipid determination in a broad range of marine tissue. Lipids, 2001, 36, 1283-1287.	1.7	585
3	QUANTITATIVE FATTY ACID SIGNATURE ANALYSIS: A NEW METHOD OF ESTIMATING PREDATOR DIETS. Ecological Monographs, 2004, 74, 211-235.	5.4	566
4	STUDYING TROPHIC ECOLOGY IN MARINE ECOSYSTEMS USING FATTY ACIDS: A PRIMER ON ANALYSIS AND INTERPRETATION. Marine Mammal Science, 2006, 22, 759-801.	1.8	503
5	POLAR BEAR DIETS AND ARCTIC MARINE FOOD WEBS: INSIGHTS FROM FATTY ACID ANALYSIS. Ecological Monographs, 2008, 78, 591-613.	5.4	287
6	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. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 886-898.	1.4	220
7	Fatty acid signatures reveal fine scale structure of foraging distribution of harbor seals and their prey in Prince William Sound, Alaska. Marine Ecology - Progress Series, 1997, 151, 255-271.	1.9	220
8	The Effect of Maternal Size and Milk Energy Output on Pup Growth in Grey Seals (Halichoerus grypus). Physiological Zoology, 1993, 66, 61-88.	1.5	186
9	Fat content and fatty acid composition of forage fish and invertebrates in Prince William Sound, Alaska: factors contributing to among and within species variability. Marine Ecology - Progress Series, 2002, 241, 161-181.	1.9	184
10	Tracing carbon flow in an arctic marine food web using fatty acid-stable isotope analysis. Oecologia, 2008, 157, 117-129.	2.0	182
11	Sex differences in grey seal diet reflect seasonal variation in foraging behaviour and reproductive expenditure: evidence from quantitative fatty acid signature analysis. Journal of Animal Ecology, 2007, 76, 490-502.	2.8	166
12	Tracing aquatic food webs using fatty acids: from qualitative indicators to quantitative determination. , 2009, , 281-308.		155
13	Stratification and age-related differences in blubber fatty acids of the male harbour porpoise (Phocoena phocoena). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1996, 165, 628-639.	1.5	150
14	Global change effects on the longâ€term feeding ecology and contaminant exposures of <scp>E</scp>ast <scp>G</scp>reenland polar bears. Global Change Biology, 2013, 19, 2360-2372.	9.5	147
15	LINKING MOVEMENT, DIVING, AND HABITAT TO FORAGING SUCCESS IN A LARGE MARINE PREDATOR. Ecology, 2006, 87, 3095-3108.	3.2	140
16	Dietary effects on the fatty acid signature of whole Atlantic cod (Gadus morhua). Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1378-1386.	1.4	128
17	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. Frontiers in Marine Science, 2019, 6, .	2.5	127
18	Diet of northern bottlenose whales inferred from fatty-acid and stable-isotope analyses of biopsy samples. Canadian Journal of Zoology, 2001, 79, 1442-1454.	1.0	124

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19	Seabirds as indicators of food web structure and ecosystem variability: qualitative and quantitative diet analyses using fatty acids. Marine Ecology - Progress Series, 2007, 352, 235-244.	1.9	113
20	Effect of a Lowâ€Fat Diet on Body Composition and Blubber Fatty Acids of Captive Juvenile Harp Seals (Phoca groenlandica). Physiological and Biochemical Zoology, 2000, 73, 45-59.	1.5	112
21	Comparative Analysis of Nonhuman Milks. , 1995, , 749-789.		108
22	Envisioning the Future of Aquatic Animal Tracking: Technology, Science, and Application. BioScience, 2017, 67, 884-896.	4.9	108
23	Sex differences in the seasonal patterns of energy storage and expenditure in a phocid seal. Journal of Animal Ecology, 2003, 72, 280-291.	2.8	105
24	Sex differences in the diving behaviour of a size-dimorphic capital breeder: the grey seal. Animal Behaviour, 2003, 66, 777-789.	1.9	103
25	Milk and Energy Intakes of Suckling California Sea Lion Zalophus californianus Pups in Relation to Sex, Growth, and Predicted Maintenance Requirements. Physiological Zoology, 1987, 60, 560-575.	1.5	101
26	Development of the Blood and Muscle Oxygen Stores in Gray Seals (Halichoerus grypus): Implications for Juvenile Diving Capacity and the Necessity of a Terrestrial Postweaning Fast. Physiological and Biochemical Zoology, 2005, 78, 482-490.	1.5	96
27	Maternal and newborn life-history traits during periods of contrasting population trends: implications for explaining the decline of harbour seals (Phoca vitulina), on Sable Island. Journal of Zoology, 2003, 261, 155-163.	1.7	89
28	Ocean Tracking Network Canada: A Network Approach to Addressing Critical Issues in Fisheries and Resource Management with Implications for Ocean Governance. Fisheries, 2011, 36, 583-592.	0.8	83
29	Jellyfish Support High Energy Intake of Leatherback Sea Turtles (Dermochelys coriacea): Video Evidence from Animal-Borne Cameras. PLoS ONE, 2012, 7, e33259.	2.5	82
30	Does male harassment of females contribute to reproductive synchrony in the grey seal by affecting maternal performance?. Behavioral Ecology and Sociobiology, 1995, 36, 1-10.	1.4	79
31	VARIABILITY IN THE BLUBBER FATTY ACID COMPOSITION OF RINGED SEALS (PHOCA HISPIDA) ACROSS THE CANADIAN ARCTIC. Marine Mammal Science, 2007, 23, 241-261.	1.8	72
32	Balancing foraging and reproduction in the male harbour seal, an aquatically mating pinniped. Animal Behaviour, 1997, 54, 663-678.	1.9	70
33	Fatty acid signatures and classification trees: new tools for investigating the foraging ecology of seals. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 1377-1386.	1.4	66
34	Milk lipid digestion in the neonatal dog: the combined actions of gastric and bile salt stimulated lipases. Lipids and Lipid Metabolism, 1991, 1083, 109-119.	2.6	59
35	Positional specificity of gastric hydrolysis of long-chain nâˆ’3 polyunsaturated fatty acids of seal milk triglycerides. Lipids, 1992, 27, 870-878.	1.7	56
36	Variation in blubber fatty acid composition among marine mammals in the Canadian Arctic. Marine Mammal Science, 2008, 24, 91-111.	1.8	55

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37	Offspring size at weaning affects survival to recruitment and reproductive performance of primiparous gray seals. Ecology and Evolution, 2015, 5, 1412-1424.	1.9	53
38	Maternal effects on offspring growth rate and weaning mass in harbour seals. Canadian Journal of Zoology, 2001, 79, 1088-1101.	1.0	52
39	Body Condition at Weaning Affects the Duration of the Postweaning Fast in Gray Seal Pups (Halichoerus grypus). Physiological and Biochemical Zoology, 2008, 81, 269-277.	1.5	52
40	Individual patterns of prey selection and dietary specialization in an Arctic marine carnivore. Oikos, 2011, 120, 1469-1478.	2.7	52
41	Validating quantitative fatty acid signature analysis to estimate diets of spectacled and Stellerâ€™s eiders (Somateria fischeri and Polysticta stelleri). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 125-139.	1.5	48
42	Blubber fatty acids of gray seals reveal sex differences in the diet of a size-dimorphic marine carnivore. Canadian Journal of Zoology, 2005, 83, 377-388.	1.0	47
43	Demonstration of the Deposition and Modification of Dietary Fatty Acids in Pinniped Blubber Using Radiolabelled Precursors. Physiological and Biochemical Zoology, 2004, 77, 682-687.	1.5	43
44	Sex differences in diving at multiple temporal scales in a size-dimorphic capital breeder. Journal of Animal Ecology, 2003, 72, 979-993.	2.8	42
45	Temporal complexity of southern <scp>B</scp>eaufort <scp>S</scp>ea polar bear diets during a period of increasing land use. Ecosphere, 2017, 8, e01633.	2.2	41
46	Influence of storms and maternal size on motherâ€“pup separations and fostering in the harbor seal, Phoca vitulina. Canadian Journal of Zoology, 1992, 70, 1640-1644.	1.0	40
47	Fatty acid signatures of stomach oil and adipose tissue of northern fulmars (Fulmarus glacialis) in Alaska: implications for diet analysis of Procellariiform birds. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 893-903.	1.5	36
48	Dynamics of blood chylomicron fatty acids in a marine carnivore: implications for lipid metabolism and quantitative estimation of predator diets. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 133-145.	1.5	35
49	Validation of adipose lipid content as a body condition index for polar bears. Ecology and Evolution, 2014, 4, 516-527.	1.9	35
50	Long term diet differences between morphs in trophically polymorphic Percichthys trucha (Pisces:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 69, 599-616.	1.6	34
51	Metabolic compensation during high energy output in fasting, lactating grey seals (Halichoerus) Tj ETQq1 1 0.784314 rgBT /Overlock 267, 1245-1251.	2.6	34
52	Metabolism of Dietary Cetoleic Acid (22:1nâ€‘11) in Mink (Mustela vison) and Gray Seals (Halichoerus) Tj ETQq0 0 0 rgBT /Overlock 10 T 820-829.	1.5	34
53	A practical method to account for variation in detection range in acoustic telemetry arrays to accurately quantify the spatial ecology of aquatic animals. Methods in Ecology and Evolution, 2020, 11, 82-94.	5.2	32
54	MATERNAL EFFECTS ON OFFSPRING MASS AND STAGE OF DEVELOPMENT AT BIRTH IN THE HARBOR SEAL,PHOCA VITULINA. Journal of Mammalogy, 2000, 81, 1143-1156.	1.3	31

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55	Primiparous and multiparous females differ in mammary gland alveolar development: implications for milk production. Journal of Experimental Biology, 2012, 215, 2904-2911.	1.7	31
56	Animal-Borne Acoustic Transceivers Reveal Patterns of at-Sea Associations in an Upper-Trophic Level Predator. PLoS ONE, 2012, 7, e48962.	2.5	31
57	The Ocean Tracking Network: Advancing frontiers in aquatic science and management. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 1041-1051.	1.4	28
58	The Sun, Moon, Wind, and Biological Imperativeâ€"Shaping Contrasting Wintertime Migration and Foraging Strategies of Adult Male and Female Northern Fur Seals (Callorhinus ursinus). PLoS ONE, 2014, 9, e93068.	2.5	27
59	Quantitative analysis of fatty acid precursors in marine samples. Journal of Lipid Research, 2003, 44, 1802-1807.	4.2	26
60	DETERMINING BLUBBER FATTY ACID COMPOSITION: A COMPARISON OF IN SITU DIRECT AND TRADITIONAL METHODS. Marine Mammal Science, 2004, 20, 284-295.	1.8	26
61	Diet of yellow-billed loons (Gavia adamsii) in Arctic lakes during the nesting season inferred from fatty acid analysis. Polar Biology, 2015, 38, 1239-1247.	1.2	26
62	Bioelectrical impedance analysis as a means of estimating total body water in grey seals. Canadian Journal of Zoology, 1999, 77, 418-422.	1.0	25
63	Blubber. , 2009, , 115-120.		25
64	Testing predictions of optimal diving theory using animal-borne video from harbour seals (<i>Phoca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	25
65	Fatty acid composition of black bear (Ursus americanus) milk during and after the period of winter dormancy. Lipids, 1992, 27, 940-943.	1.7	23
66	A comparison of the composition of milks from Meishan and crossbred pigs. Livestock Science, 2000, 63, 85-91.	1.2	22
67	The Influence of Reproductive Experience on Milk Energy Output and Lactation Performance in the Grey Seal (Halichoerus grypus). PLoS ONE, 2011, 6, e19487.	2.5	22
68	A Novel Framework to Protect Animal Data in a World of Ecosurveillance. BioScience, 2020, 70, 468-476.	4.9	22
69	Milk Lipids and Neonatal Fat Digestion: Relationship between Fatty Acid Composition, Endogenous and Exogenous Digestive Enzymes and Digestion of Milk Fat. World Review of Nutrition and Dietetics, 1994, 75, 86-91.	0.3	19
70	The effects of diet and caloric restriction on adipose tissue fatty acid signatures of tufted puffin (Fratercula cirrhata) nestlings. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 711-720.	1.5	19
71	Intrinsic and extrinsic sources of variation in the diets of harp and hooded seals revealed by fatty acid profiles. Canadian Journal of Zoology, 2009, 87, 139-151.	1.0	19
72	Philogenetic and Ecological Variation in the Fatty Acid Composition of Milks. , 1995, , 789-827.		19

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73	Interspecific and Intraspecific Variation in Proximate, Mineral, and Fatty Acid Composition of Milk in Old World Fruit Bats (Chiroptera: Pteropodidae). Physiological and Biochemical Zoology, 2001, 74, 134-146.	1.5	16
74	Blubber. , 2018, , 107-110.		16
75	Local contamination, and not feeding preferences, explains elevated PCB concentrations in Labrador ringed seals (Pusa hispida). Science of the Total Environment, 2015, 515-516, 188-197.	8.0	15
76	Testing for a change in diet using fatty acid signatures. Environmental and Ecological Statistics, 2014, 21, 775-792.	3.5	13
77	Age estimation of belugas, Delphinapterus leucas, using fatty acid composition: A promising method. Marine Mammal Science, 2015, 31, 944-962.	1.8	13
78	Seasonal occupancy and connectivity amongst nearshore flats and reef habitats by permit Trachinotus falcatus : considerations for fisheries management. Journal of Fish Biology, 2020, 96, 469-479.	1.6	12
79	Estimating the carrying capacity of French Frigate Shoals for the endangered Hawaiian monk seal using Ecopath with Ecosim. Marine Mammal Science, 2012, 28, 522-541.	1.8	11
80	Transmitting speciesâ€interaction data from animalâ€borne transceivers through Service Argos using Bluetooth communication. Methods in Ecology and Evolution, 2014, 5, 864-871.	5.2	11
81	Probability of Detecting Marine Predator-Prey and Species Interactions Using Novel Hybrid Acoustic Transmitter-Receiver Tags. PLoS ONE, 2014, 9, e98117.	2.5	10
82	Lipase and Pepsin Activities in the Stomach Mucosa of the Suckling Dog. Neonatology, 1991, 59, 78-85.	2.0	9
83	Individual and population dietary specialization decline in fin whales during a period of ecosystem shift. Scientific Reports, 2021, 11, 17181.	3.3	9
84	Reply: Fatty acid signatures and classification trees: new tools for investigating the foraging ecology of seals. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2224-2226.	1.4	8
85	Body composition in mink (Mustela vison) kits during 21â€“42 days postpartum using estimates of hydrogen isotope dilution and direct carcass analysis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 126, 295-303.	1.8	8
86	Characterization of blubber fatty acid signatures in northern elephant seals (Mirounga) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (an Systemic, and Environmental Physiology, 2013, 183, 1065-1074.	1.5	8
87	Exploring causal components of plasticity in grey seal birthdates: Effects of intrinsic traits, demography, and climate. Ecology and Evolution, 2020, 10, 11507-11522.	1.9	7
88	Fueling phocids: Divergent exploitation of primary energy sources and parallel ontogenetic diet switches among three species of subarctic seals. Marine Mammal Science, 2013, 29, E428.	1.8	5
89	Egg yolk fatty acids as a proxy to quantify diets of female Spectacled Eiders (Somateria) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.0	5
90	A novel approach to quantifying the spatiotemporal behavior of instrumented grey seals used to sample the environment. Movement Ecology, 2015, 3, 20.	2.8	5

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91	A case for restoring unity between biotelemetry and bio-logging to enhance animal tracking research. Facets, 2021, 6, 1260-1265.	2.4	4
92	Validation of quantitative fatty acid signature analysis for estimating the diet composition of free-ranging killer whales. Scientific Reports, 2022, 12, 7938.	3.3	4
93	A Canadian contribution to an integrated Atlantic ocean observing system (IAOOS). , 2014, , .		3
94	Egg size is independent of variation in pre-breeding feather corticosterone in Cassinâ€™s auklets during favorable oceanographic conditions. General and Comparative Endocrinology, 2018, 268, 64-70.	1.8	1
95	Variability of Lipids and Fatty Acids in Pacific Walrus Blubber. Frontiers in Marine Science, 2021, 8, .	2.5	1
96	Maternal Effects on Offspring Mass and Stage of Development at Birth in the Harbor Seal, Phoca Vitulina. , 0, .		1