

Diane M O brien

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

2,491
citations

29
h-index

49
g-index

81
ext. papers

2,907
ext. citations

3.9
avg, IF

5.06
L-index

#	Paper	IF	Citations
78	Renewable and nonrenewable resources: amino acid turnover and allocation to reproduction in Lepidoptera. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4413-8	11.5	217
77	Tracing carbon sources through aquatic and terrestrial food webs using amino acid stable isotope fingerprinting. <i>PLoS ONE</i> , 2013 , 8, e73441	3.7	145
76	Stable isotope fingerprinting: a novel method for identifying plant, fungal, or bacterial origins of amino acids. <i>Ecology</i> , 2009 , 90, 3526-35	4.6	140
75	Making eggs from nectar: the role of life history and dietary carbon turnover in butterfly reproductive resource allocation. <i>Oikos</i> , 2004 , 105, 279-291	4	109
74	ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. <i>Ecology</i> , 2000 , 81, 2822-2831	4.6	107
73	Tracking human travel using stable oxygen and hydrogen isotope analyses of hair and urine. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 2422-30	2.2	105
72	Stable Isotope Ratios as Biomarkers of Diet for Health Research. <i>Annual Review of Nutrition</i> , 2015 , 35, 565-94	9.9	93
71	Energy metabolism in orchid bee flight muscles: carbohydrate fuels all. <i>Journal of Experimental Biology</i> , 2005 , 208, 3573-9	3	91
70	Pollen feeding in the butterfly <i>Heliconius charitonia</i> : isotopic evidence for essential amino acid transfer from pollen to eggs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 2631-6	4.4	90
69	Disentangling effects of growth and nutritional status on seabird stable isotope ratios. <i>Oecologia</i> , 2009 , 159, 41-8	2.9	77
68	An examination of the carbon isotope effects associated with amino acid biosynthesis. <i>Astrobiology</i> , 2006 , 6, 867-80	3.7	67
67	The amino acids used in reproduction by butterflies: a comparative study of dietary sources using compound-specific stable isotope analysis. <i>Physiological and Biochemical Zoology</i> , 2005 , 78, 819-27	2	66
66	Use of stable isotopes to examine how dietary restriction extends <i>Drosophila</i> lifespan. <i>Current Biology</i> , 2008 , 18, R155-6	6.3	61
65	The influence of diet and water on the stable oxygen and hydrogen isotope composition of Chironomidae (Diptera) with paleoecological implications. <i>Oecologia</i> , 2009 , 160, 225-33	2.9	60
64	Red blood cell delta15N: a novel biomarker of dietary eicosapentaenoic acid and docosahexaenoic acid intake. <i>American Journal of Clinical Nutrition</i> , 2009 , 89, 913-9	7	55
63	Stable nitrogen and carbon isotope ratios indicate traditional and market food intake in an indigenous circumpolar population. <i>Journal of Nutrition</i> , 2012 , 142, 84-90	4.1	54
62	Genetic polymorphisms in carnitine palmitoyltransferase 1A gene are associated with variation in body composition and fasting lipid traits in Yup'ik Eskimos. <i>Journal of Lipid Research</i> , 2012 , 53, 175-84	6.3	52

61	Associations of obesity with triglycerides and C-reactive protein are attenuated in adults with high red blood cell eicosapentaenoic and docosahexaenoic acids. <i>European Journal of Clinical Nutrition</i> , 2011 , 65, 808-17	5.2	51
60	Using stable isotopes to assess carbon and nitrogen turnover in the Arctic sympagic amphipod <i>Onisimus litoralis</i> . <i>Oecologia</i> , 2008 , 158, 11-22	2.9	50
59	DNA methylation patterns are associated with n-3 fatty acid intake in Yupik people. <i>Journal of Nutrition</i> , 2014 , 144, 425-30	4.1	43
58	A test of alternative models for increased tissue nitrogen isotope ratios during fasting in hibernating arctic ground squirrels. <i>Journal of Experimental Biology</i> , 2012 , 215, 3354-61	3	40
57	The carbon isotope ratio of alanine in red blood cells is a new candidate biomarker of sugar-sweetened beverage intake. <i>Journal of Nutrition</i> , 2013 , 143, 878-84	4.1	39
56	Relation between stable isotope ratios in human red blood cells and hair: implications for using the nitrogen isotope ratio of hair as a biomarker of eicosapentaenoic acid and docosahexaenoic acid. <i>American Journal of Clinical Nutrition</i> , 2009 , 90, 1642-7	7	39
55	Resource allocation to reproduction and soma in <i>Drosophila</i> : a stable isotope analysis of carbon from dietary sugar. <i>Journal of Insect Physiology</i> , 2006 , 52, 763-70	2.4	39
54	Carbon and nitrogen stable isotope ratios predict intake of sweeteners in a Yupik study population. <i>Journal of Nutrition</i> , 2013 , 143, 161-5	4.1	37
53	Perspective: Dietary Biomarkers of Intake and Exposure-Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020 , 11, 200-215	10	35
52	Effects of Lipid Extraction on Stable Isotope Ratios in Avian Egg Yolk: Is Arithmetic Correction a Reliable Alternative?. <i>Auk</i> , 2010 , 127, 72-78	2.1	32
51	Can amino acid carbon isotope ratios distinguish primary producers in a mangrove ecosystem?. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 1541-8	2.2	30
50	The dominant detritus-feeding invertebrate in Arctic peat soils derives its essential amino acids from gut symbionts. <i>Journal of Animal Ecology</i> , 2016 , 85, 1275-85	4.7	30
49	Age-related variation in red blood cell stable isotope ratios ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) from two Yupik villages in southwest Alaska: a pilot study. <i>International Journal of Circumpolar Health</i> , 2007 , 66, 31-41	1.7	29
48	Stable isotope models of sugar intake using hair, red blood cells, and plasma, but not fasting plasma glucose, predict sugar intake in a Yupik study population. <i>Journal of Nutrition</i> , 2014 , 144, 75-80	4.1	25
47	Contrasting effects of nitrogen limitation and amino acid imbalance on carbon and nitrogen turnover in three species of Collembola. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 749-759	7.5	24
46	King eiders use an income strategy for egg production: a case study for incorporating individual dietary variation into nutrient allocation research. <i>Oecologia</i> , 2010 , 164, 1-12	2.9	23
45	Genetics, Diet, and Season Are Associated with Serum 25-Hydroxycholecalciferol Concentration in a Yupik Study Population from Southwestern Alaska. <i>Journal of Nutrition</i> , 2016 , 146, 318-25	4.1	22
44	A stable isotope biomarker of marine food intake captures associations between n-3 fatty acid intake and chronic disease risk in a Yupik study population, and detects new associations with blood pressure and adiponectin. <i>Journal of Nutrition</i> , 2014 , 144, 706-13	4.1	22

43	Declines in traditional marine food intake and vitamin D levels from the 1960s to present in young Alaska Native women. <i>Public Health Nutrition</i> , 2017 , 20, 1738-1745	3.3	21
42	Association between added sugar intake and dental caries in Yup'ik children using a novel hair biomarker. <i>BMC Oral Health</i> , 2015 , 15, 121	3.7	20
41	Stable isotopes identify dietary changes associated with beak deformities in Black-capped Chickadees (<i>Poecile atricapillus</i>). <i>Auk</i> , 2012 , 129, 460-466	2.1	18
40	Linkage and association analysis of obesity traits reveals novel loci and interactions with dietary n-3 fatty acids in an Alaska Native (Yup'ik) population. <i>Metabolism: Clinical and Experimental</i> , 2015 , 64, 689-97	12.7	17
39	Serum Nitrogen and Carbon Stable Isotope Ratios Meet Biomarker Criteria for Fish and Animal Protein Intake in a Controlled Feeding Study of a Women's Health Initiative Cohort. <i>Journal of Nutrition</i> , 2018 , 148, 1931-1937	4.1	17
38	Obesity polymorphisms identified in genome-wide association studies interact with n-3 polyunsaturated fatty acid intake and modify the genetic association with adiposity phenotypes in Yup'ik people. <i>Genes and Nutrition</i> , 2013 , 8, 495-505	4.3	16
37	Anthropogenic food use and diet overlap between red foxes (<i>Vulpes vulpes</i>) and arctic foxes (<i>Vulpes lagopus</i>) in Prudhoe Bay, Alaska. <i>Canadian Journal of Zoology</i> , 2014 , 92, 657-663	1.5	15
36	Associations of plasma, RBCs, and hair carbon and nitrogen isotope ratios with fish, meat, and sugar-sweetened beverage intake in a 12-wk inpatient feeding study. <i>American Journal of Clinical Nutrition</i> , 2019 , 110, 1306-1315	7	14
35	Characterising the reproducibility and reliability of dietary patterns among Yup'ik Alaska Native people. <i>British Journal of Nutrition</i> , 2015 , 113, 634-43	3.6	13
34	Using exploratory factor analysis of FFQ data to identify dietary patterns among Yup'ik people. <i>Public Health Nutrition</i> , 2014 , 17, 510-8	3.3	12
33	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> , 2016 , 557, 161-175	2.6	12
32	Isotopic estimates of sugar intake are related to chronic disease risk factors but not obesity in an Alaska native (Yup'ik) study population. <i>European Journal of Clinical Nutrition</i> , 2014 , 68, 91-6	5.2	11
31	CDKAL1 and HHEX are associated with type 2 diabetes-related traits among Yup'ik people. <i>Journal of Diabetes</i> , 2014 , 6, 251-9	3.8	11
30	Evidence for novel genetic loci associated with metabolic traits in Yup'ik people. <i>American Journal of Human Biology</i> , 2013 , 25, 673-80	2.7	9
29	Sources of primary production to Arctic bivalves identified using amino acid stable carbon isotope fingerprinting. <i>Isotopes in Environmental and Health Studies</i> , 2019 , 55, 366-384	1.5	8
28	Strengthening adolescents' connection to their traditional food system improves diet quality in remote Alaska Native communities: results from the Neqa Elicarvigmun Pilot Study. <i>Translational Behavioral Medicine</i> , 2019 , 9, 952-961	3.2	7
27	Resource partitioning between Pacific walruses and bearded seals in the Alaska Arctic and sub-Arctic. <i>Oecologia</i> , 2017 , 184, 385-398	2.9	7
26	Sex, Adiposity, and Hypertension Status Modify the Inverse Effect of Marine Food Intake on Blood Pressure in Alaska Native (Yup'ik) People. <i>Journal of Nutrition</i> , 2015 , 145, 931-8	4.1	6

25	Estimating lean mass over a wide range of body composition: a calibration of deuterium dilution in the arctic ground squirrel. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3491-6	2.2	6
24	ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES 2000 , 81, 2822		5
23	Morphological characteristics of harbor seal (<i>Phoca vitulina</i>) whiskers and their use in dietary reconstruction using stable isotope ratios. <i>Canadian Journal of Zoology</i> , 2018 , 96, 1255-1263	1.5	4
22	The Nitrogen Isotope Ratio Is a Biomarker of Yup'ik Traditional Food Intake and Reflects Dietary Seasonality in Segmental Hair Analyses. <i>Journal of Nutrition</i> , 2019 , 149, 1960-1966	4.1	4
21	Dietary and genetic influences on hemostasis in a Yup'ik Alaska Native population. <i>PLoS ONE</i> , 2017 , 12, e0173616	3.7	4
20	Stable isotope analysis of CO in breath indicates metabolic fuel shifts in torpid arctic ground squirrels. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017 , 209, 10-15	2.6	3
19	Polymorphisms in stearoyl coa desaturase and sterol regulatory element binding protein interact with N-3 polyunsaturated fatty acid intake to modify associations with anthropometric variables and metabolic phenotypes in Yup'ik people. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 2642-2653	5.9	3
18	Linkage and association analysis of circulating vitamin D and parathyroid hormone identifies novel loci in Alaska Native Yup'ik people. <i>Genes and Nutrition</i> , 2016 , 11, 23	4.3	3
17	Resource allocation to testes in walnut flies and implications for reproductive strategy. <i>Journal of Insect Physiology</i> , 2010 , 56, 1523-9	2.4	3
16	Habitual Intake of Marine-derived n-3 Polyunsaturated Fatty Acids is Inversely Associated with a Cardiometabolic Inflammatory Profile in Yup'ik Alaska Native People. <i>Journal of Nutrition</i> , 2021 ,	4.1	3
15	The Carbon Isotope Ratios of Serum Amino Acids in Combination with Participant Characteristics can be Used to Estimate Added Sugar Intake in a Controlled Feeding Study of US Postmenopausal Women. <i>Journal of Nutrition</i> , 2020 , 150, 2764-2771	4.1	3
14	Dried Blood Spot Sampling of Landlocked Arctic Char (<i>Salvelinus alpinus</i>) for Estimating Mercury Exposure and Stable Carbon Isotope Fingerprinting of Essential Amino Acids. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 893-903	3.8	2
13	Bi-cultural dynamics for risk and protective factors for cardiometabolic health in an Alaska Native (Yup'ik) population. <i>PLoS ONE</i> , 2017 , 12, e0183451	3.7	2
12	Investigating the performance of 24-h urinary sucrose and fructose as a biomarker of total sugars intake in US participants - a controlled feeding study. <i>American Journal of Clinical Nutrition</i> , 2021 , 114, 721-730	7	2
11	The Breath Carbon Isotope Ratio Reflects Short-term Added-Sugar Intake in a Dose-Response, Crossover Feeding Study of 12 Healthy Adults. <i>Journal of Nutrition</i> , 2021 , 151, 628-635	4.1	2
10	Characterizing Vegetable and Fruit Intake in a Remote Alaska Native Community Using Reflection Spectroscopy and 24-Hour Recalls. <i>Journal of Nutrition Education and Behavior</i> , 2021 , 53, 712-718	2	2
9	Validation of dried blood spot sampling for determining trophic positions of Arctic char using nitrogen stable isotope analyses of amino acids. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e8992	2.2	1
8	Seasonal variation in added sugar or sugar sweetened beverage intake in Alaska native communities: an exploratory study. <i>International Journal of Circumpolar Health</i> , 2021 , 80, 1920779	1.7	1

7	Does feeding type matter? Contribution of organic matter sources to benthic invertebrates on the Arctic Chukchi Sea shelf. <i>Food Webs</i> , 2021 , 29, e00205	1.8	1
6	The carbon isotope ratios of nonessential amino acids identify sugar-sweetened beverage (SSB) consumers in a 12-wk inpatient feeding study of 32 men with varying SSB and meat exposures. <i>American Journal of Clinical Nutrition</i> , 2021 , 113, 1256-1264	7	0
5	Reply to Mantha OL et al. <i>American Journal of Clinical Nutrition</i> , 2020 , 111, 1110-1111	7	
4	Validation of Stable Isotope Ratios as Biomarkers of Meat, Fish, and Soda Intake. <i>FASEB Journal</i> , 2015 , 29, 131.4	0.9	
3	Seasonal and annual variation in intake of traditional marine foods by a Yup'ik Eskimo population: a sequential dietary record from hair stable isotope analysis. <i>FASEB Journal</i> , 2012 , 26, lb347	0.9	
2	Associations between stable isotope ratios and animal-derived dietary protein intake in Yup'ik eskimos. <i>FASEB Journal</i> , 2012 , 26, lb342	0.9	
1	Metabolic Characterization of Meat, Fish, and Soda Intake in Males: Secondary Results from a Randomized Inpatient Pilot Study. <i>Obesity</i> , 2021 , 29, 995-1002	8	