Alicia L Carriquiry

List of Publications by Year
in descending order

96 papers	4,741 citations	101496 36 h-index	98753 67 g-index
97 all docs	97 docs citations	97 times ranked	5800 citing authors

#	Article	IF	Citations
1	Simple Food Group Diversity Indicators Predict Micronutrient Adequacy of Women's Diets in 5 Diverse, Resource-Poor Settings. Journal of Nutrition, 2010, 140, 2059S-2069S.	1.3	408
2	Assessing the prevalence of nutrient inadequacy. Public Health Nutrition, 1999, 2, 23-34.	1.1	266
3	Sodium and potassium intakes among US adults: NHANES 2003–2008. American Journal of Clinical Nutrition, 2012, 96, 647-657.	2.2	225
4	Introduction of β-Carotene–Rich Orange Sweet Potato in Rural Uganda Resulted in Increased Vitamin A Intakes among Children and Women and Improved Vitamin A Status among Children3. Journal of Nutrition, 2012, 142, 1871-1880.	1.3	213
5	Estimation of Usual Intake Distributions of Nutrients and Foods. Journal of Nutrition, 2003, 133, 601S-608S.	1.3	197
6	A large-scale intervention to introduce orange sweet potato in rural Mozambique increases vitamin A intakes among children and women. British Journal of Nutrition, 2012, 108, 163-176.	1.2	191
7	Development of an Approach for Estimating Usual Nutrient Intake Distributions at the Population Level ,. Journal of Nutrition, 1997, 127, 1106-1112.	1.3	178
8	Close Correspondence between the Motions from Principal Component Analysis of Multiple HIV-1 ProteaseÂStructures and Elastic Network Modes. Structure, 2008, 16, 321-330.	1.6	157
9	Parametric and Nonparametric Statistical Methods for Genomic Selection of Traits with Additive and Epistatic Genetic Architectures. G3: Genes, Genomes, Genetics, 2014, 4, 1027-1046.	0.8	148
10	Validity of predictive equations for 24-h urinary sodium excretion in adults aged 18–39 y. American Journal of Clinical Nutrition, 2013, 98, 1502-1513.	2.2	141
11	Folic acid source, usual intake, and folate and vitamin B-12 status in US adults: National Health and Nutrition Examination Survey (NHANES) 2003–2006. American Journal of Clinical Nutrition, 2010, 91, 64-72.	2.2	138
12	Association between Usual Sodium and Potassium Intake and Blood Pressure and Hypertension among U.S. Adults: NHANES 2005–2010. PLoS ONE, 2013, 8, e75289.	1.1	110
13	Urinary Excretion of Sodium, Potassium, and Chloride, but Not Iodine, Varies by Timing of Collection in a 24-Hour Calibration Study1–3. Journal of Nutrition, 2013, 143, 1276-1282.	1.3	102
14	Usual Intake of Added Sugars and Saturated Fats Is High while Dietary Fiber Is Low in the Mexican Population. Journal of Nutrition, 2016, 146, 1856S-1865S.	1.3	97
15	The choice of statistical models in road safety countermeasure effectiveness studies in Iowa. Accident Analysis and Prevention, 2008, 40, 1531-1542.	3.0	89
16	Options for basing Dietary Reference Intakes (DRIs) on chronic disease endpoints: report from a joint US-/Canadian-sponsored working group. American Journal of Clinical Nutrition, 2017, 105, 249S-285S.	2.2	89
17	Gene Expression Patterns During Somatic Embryo Development and Germination in Maize Hi II Callus Cultures. Plant Molecular Biology, 2006, 62, 1-14.	2.0	80
18	Perspective: Proposed Harmonized Nutrient Reference Values for Populations. Advances in Nutrition, 2020, 11, 469-483.	2.9	77

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19	Comparison of Population Iodine Estimates from 24-Hour Urine and Timed-Spot Urine Samples. Thyroid, 2014, 24, 748-757.	2.4	70
20	Three-Phase Model Harmonizes Estimates of the Maximal Suppression of Parathyroid Hormone by 25-Hydroxyvitamin D in Persons 65 Years of Age and Older1â€"3. Journal of Nutrition, 2010, 140, 595-599.	1.3	65
21	Driving behavior at a roundabout: A hierarchical Bayesian regression analysis. Transportation Research, Part D: Transport and Environment, 2014, 26, 20-26.	3.2	62
22	A Complete Diet-Based Algorithm for Predicting Nonheme Iron Absorption in Adults1,2. Journal of Nutrition, 2013, 143, 1136-1140.	1.3	59
23	Ethnic differences in the nutrient intake adequacy of premenopausal US women: Results from the Third National Health Examination Survey. Journal of the American Dietetic Association, 2003, 103, 1008-1014.	1.3	55
24	Metamodels and nonpoint pollution policy in agriculture. Water Resources Research, 1993, 29, 1579-1587.	1.7	53
25	Validity of 24-h Physical Activity Recall. Medicine and Science in Sports and Exercise, 2014, 46, 2014-2024.	0.2	52
26	The use of external within-person variance estimates to adjust nutrient intake distributions over time and across populations. Public Health Nutrition, 2005, 8, 69-76.	1.1	52
27	Fortification: new findings and implications. Nutrition Reviews, 2014, 72, 127-141.	2.6	47
28	Difference between 24-h diet recall and urine excretion for assessing population sodium and potassium intake in adults aged 18â€"39 y. American Journal of Clinical Nutrition, 2015, 101, 376-386.	2.2	46
29	Iowa's Experience with Road Diet Measures. Transportation Research Record, 2006, 1953, 163-171.	1.0	43
30	The use of external within-person variance estimates to adjust nutrient intake distributions over time and across populations. Public Health Nutrition, 2005, 8, 69-76.	1.1	42
31	Validation of a Computerized 24-Hour Physical Activity Recall (24PAR) Instrument With Pattern-Recognition Activity Monitors. Journal of Physical Activity and Health, 2009, 6, 211-220.	1.0	42
32	Contributions of enriched cereal-grain products, ready-to-eat cereals, and supplements to folic acid and vitamin B-12 usual intake and folate and vitamin B-12 status in US children: National Health and Nutrition Examination Survey (NHANES), 2003â€"2006. American Journal of Clinical Nutrition, 2011, 93, 172-185.	2.2	42
33	Appropriateness of the probability approach with a nutrient status biomarker to assess population inadequacy: a study using vitamin D. American Journal of Clinical Nutrition, 2013, 97, 72-78.	2.2	41
34	Summary of an NIH Workshop to Identify Research Needs to Improve the Monitoring of Iodine Status in the United States and to Inform the DRI. Journal of Nutrition, 2012, 142, 1175S-1185S.	1.3	39
35	Iowa's Experience with Road Diet Measures: Use of Bayesian Approach to Assess Impacts on Crash Frequencies and Crash Rates. Transportation Research Record, 2006, 1953, 163-171.	1.0	39
36	Usual Vitamin Intakes by Mexican Populations. Journal of Nutrition, 2016, 146, 1866S-1873S.	1.3	38

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37	Associations between iodine intake, thyroid volume, and goiter rate in school-aged Chinese children from areas with high iodine drinking water concentrations. American Journal of Clinical Nutrition, 2017, 105, 228-233.	2.2	38
38	Analysis of occupant injury severity in winter weather crashes: A fully Bayesian multivariate approach. Analytic Methods in Accident Research, 2016, 11, 33-47.	4.7	36
39	Higher dietary magnesium intake is associated with lower body mass index, waist circumference and serum glucose in Mexican adults. Nutrition Journal, 2018, 17, 114.	1.5	36
40	Production Efficiency and Agricultural Reform in Ukraine. American Journal of Agricultural Economics, 1994, 76, 629-635.	2.4	34
41	Evaluation of Dietary Intake Data Using the Tolerable Upper Intake Levels. Journal of Nutrition, 2006, 136, 507S-513S.	1.3	34
42	Within- and Between-Person Variation in Nutrient Intakes of Russian and U.S. Children Differs by Sex and Age. Journal of Nutrition, 2004, 134, 3114-3120.	1.3	33
43	Predicted contribution of folic acid fortification of corn masa flour to the usual folic acid intake for the US population: National Health and Nutrition Examination Survey 2001–2004. American Journal of Clinical Nutrition, 2009, 89, 305-315.	2.2	33
44	Three 24-Hour Recalls in Comparison with One Improve the Estimates of Energy and Nutrient Intakes in an Urban Mexican Population. Journal of Nutrition, 2016, 146, 1043-1050.	1.3	33
45	Using Classification Trees for Predicting National Bridge Inventory Condition Ratings. Journal of Infrastructure Systems, 2013, 19, 425-433.	1.0	32
46	Modeling a methylmalonic acid–derived change point for serum vitamin B-12 for adults in NHANES. American Journal of Clinical Nutrition, 2013, 98, 460-467.	2.2	32
47	Nutrient Intake Is Insufficient among Senegalese Urban School Children and Adolescents: Results from Two 24 h Recalls in State Primary Schools in Dakar. Nutrients, 2016, 8, 650.	1.7	32
48	Estimation of the Prevalence of Inadequate and Excessive Iodine Intakes in School-Age Children from the Adjusted Distribution of Urinary Iodine Concentrations from Population Surveys. Journal of Nutrition, 2016, 146, 1204-1211.	1.3	32
49	Energy Intake Derived from an Energy Balance Equation, Validated Activity Monitors, and Dual X-Ray Absorptiometry Can Provide Acceptable Caloric Intake Data among Young Adults. Journal of Nutrition, 2018, 148, 490-496.	1.3	31
50	An Analysis of Grain Production Decline During the Early Transition in Ukraine: A Bayesian Inference. American Journal of Agricultural Economics, 2002, 84, 1256-1263.	2.4	30
51	Biofortified β-carotene rice improves vitamin A intake and reduces the prevalence of inadequacy among women and young children in a simulated analysis in Bangladesh, Indonesia, and the Philippines. American Journal of Clinical Nutrition, 2016, 104, 769-775.	2.2	30
52	A Measurement Error Approach to Assess the Association between Dietary Diversity, Nutrient Intake, and Mean Probability of Adequacy1–4. Journal of Nutrition, 2010, 140, 2094S-2101S.	1.3	29
53	Mathematical modeling of dendritic growth in vitro. Brain Research, 1995, 671, 187-194.	1.1	28
54	High Prevalence of Inadequate Calcium and Iron Intakes by Mexican Population Groups as Assessed by 24-Hour Recalls. Journal of Nutrition, 2016, 146, 1874S-1880S.	1.3	28

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55	Nutrient Intakes and Food Sources of Filipino Infants, Toddlers and Young Children are Inadequate: Findings from the National Nutrition Survey 2013. Nutrients, 2018, 10, 1730.	1.7	28
56	Machine Learning in Forensic Applications. Significance, 2019, 16, 29-35.	0.3	28
57	US youths in the early stages of HIV disease have low intakes of some micronutrients important for optimal immune function. Journal of the American Dietetic Association, 2004, 104, 1095-1101.	1.3	22
58	Smokers report lower intake of key nutrients than nonsmokers, yet both fall short of meeting recommended intakes. Nutrition Research, 2017, 45, 30-37.	1.3	22
59	Usual Dietary Energy Density Distribution Is Positively Associated with Excess Body Weight in Mexican Children ,. Journal of Nutrition, 2015, 145, 1524-1530.	1.3	21
60	Variation in the iodine concentrations of foods: considerations for dietary assessment. American Journal of Clinical Nutrition, 2016, 104, 877S-887S.	2.2	21
61	Comparison of 2 methods for estimating the prevalences of inadequate and excessive iodine intakes. American Journal of Clinical Nutrition, 2016, 104, 888S-897S.	2.2	19
62	Statistical evaluation of dendritic growth models. Bulletin of Mathematical Biology, 1991, 53, 579-589.	0.9	16
63	Total Iron Bioavailability from the US Diet Is Lower Than the Current Estimate ,. Journal of Nutrition, 2015, 145, 2617-2621.	1.3	16
64	Characteristics of U.S. Adults with Usual Daily Folic Acid Intake above the Tolerable Upper Intake Level: National Health and Nutrition Examination Survey, 2003â€"2010. Nutrients, 2016, 8, 195.	1.7	16
65	Inadequate nutrient intakes in Filipino schoolchildren and adolescents are common among those from rural areas and poor families. Food and Nutrition Research, 2019, 63, .	1.2	13
66	Treatment of inconclusives in the AFTE range of conclusions. Law, Probability and Risk, 2021, 19, 317-364.	1.2	13
67	Predicted efficacy of the Palestinian wheat flour fortification programme: complementary analysis of biochemical and dietary data. Public Health Nutrition, 2015, 18, 1358-1368.	1.1	11
68	An algorithm to compare twoâ€dimensional footwear outsole images using maximum cliques and speededâ€up robust feature. Statistical Analysis and Data Mining, 2020, 13, 188-199.	1.4	11
69	Heterogeneous Variances in Multi-Environment Yield Trials for Corn Hybrids. Crop Science, 2014, 54, 1048-1056.	0.8	9
70	Algorithmic approaches to match degraded land impressions. Law, Probability and Risk, 2017, 16, 203-221.	1.2	9
71	A Bayesian assessment of the effect of highway bypasses in Iowa on crashes and crash rate. Journal of Safety Research, 2011, 42, 241-252.	1.7	8
72	Selecting desirable micronutrient fortificants for plantâ€based complementary foods for infants and young children in lowâ€income countries. Journal of the Science of Food and Agriculture, 2015, 95, 221-224.	1.7	8

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73	Quality Control for Scientific Research: Addressing Reproducibility, Responsiveness, and Relevance. American Statistician, 2019, 73, 46-55.	0.9	8
74	Irreducibility and efficiency of ESIP to sample marker genotypes in large pedigrees with loops. Genetics Selection Evolution, 2002, 34, 537-55.	1.2	7
75	Establishing desirable fortificant levels for calcium, iron and zinc in foods for infant and young child feeding: examples from three Asian countries. Maternal and Child Nutrition, 2014, 10, 112-125.	1.4	7
76	A clustering method for graphical handwriting components and statistical writership analysis. Statistical Analysis and Data Mining, 2021, 14, 41-60.	1.4	7
77	Estimating the Population Distribution of Usual 24-Hour Sodium Excretion from Timed Urine Void Specimens Using a Statistical Approach Accounting for Correlated Measurement Errors. Journal of Nutrition, 2015, 145, 1017-1024.	1.3	6
78	Use of Folate-Based and Other Fortification Scenarios Illustrates Different Shifts for Tails of the Distribution of Serum 25-Hydroxyvitamin D Concentrations. Journal of Nutrition, 2015, 145, 1623-1629.	1.3	6
79	Application of Response Surface Methods To Determine Conditions for Optimal Genomic Prediction. G3: Genes, Genomes, Genetics, 2017, 7, 3103-3113.	0.8	5
80	A database of elemental compositions of architectural float glass samples measured by LA-ICP-MS. Data in Brief, 2020, 30, 105449.	0.5	5
81	Modeling energy balance while correcting for measurement error via free knot splines. PLoS ONE, 2018, 13, e0201892.	1.1	4
82	Repeated Measurements on Distinct Scales With Censoring—A Bayesian Approach Applied to Microarray Analysis of Maize. Journal of the American Statistical Association, 2009, 104, 524-540.	1.8	3
83	Planning Nutritionally Adequate Diets for Groups: Methods Used to Develop Recommendations for a Child and Adult Care Food Program. Advances in Nutrition, 2021, 12, 452-460.	2.9	3
84	Estimation of Intake of Critical Nutrients Associated with Noncommunicable Diseases According to the PAHO/WHO Criteria in the Diet of School-Age Children in Montevideo, Uruguay. Nutrients, 2022, 14, 528.	1.7	3
85	Understanding and Assessing Nutrition. Annual Review of Statistics and Its Application, 2017, 4, 123-146.	4.1	2
86	Stephen Elliott Fienberg 1942–2016, Founding Editor of the Annual Review of Statistics and Its Application. Annual Review of Statistics and Its Application, 2019, 6, 1-18.	4.1	2
87	Quantifying the similarity of 2D images using edge pixels: an application to the forensic comparison of footwear impressions. Journal of Applied Statistics, 2021, 48, 1833-1860.	0.6	2
88	The effect of image descriptors on the performance of classifiers of footwear outsole image pairs. Forensic Science International, 2021, 331, 111126.	1.3	1
89	Bayesian Methods for Microarray Data. Handbook of Statistics, 2012, 28, 13-38.	0.4	0
90	Recalls, Records, and "Random" error: A comparison of estimates of daily energy intake variation by commonly used dietary intake methodologies. FASEB Journal, 2008, 22, 868.14.	0.2	0

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91	Folic acid source, usual intake, and serum folate concentrations in US children, the National Health and Nutrition Examination Survey (NHANES) 2003â€"2006. FASEB Journal, 2010, 24, 221.2.	0.2	0
92	A complete meal based algorithm for predicting nonheme iron absorption. FASEB Journal, 2012, 26, 365.7.	0.2	0
93	Usual dietary energy density distribution is associated with excess body weight in Mexican children (130.3). FASEB Journal, 2014, 28, 130.3.	0.2	0
94	Abstract P328: Estimating the Population Distribution of Usual 24-Hour Sodium Excretion From Timed-Spot Urine Specimens Among Adults 18-39 Years. Circulation, 2015, 131, .	1.6	0
95	The relationship between moderate to vigorous physical activity and metabolic syndrome: a Bayesian measurement error approach. Journal of Applied Statistics, 2023, 50, 2246-2266.	0.6	0
96	Assessing adult physical activity and compliance with 2008 CDC guidelines using a Bayesian two-part measurement error model. Journal of Applied Statistics, 0, , 1-19.	0.6	0