

# Alicia L Carriquiry

## List of Publications by Year in descending order

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96  
papers

4,741  
citations

101384

36  
h-index

98622

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. <i>Journal of Nutrition</i> , 2010, 140, 2059S-2069S.	1.3	408
2	Assessing the prevalence of nutrient inadequacy. <i>Public Health Nutrition</i> , 1999, 2, 23-34.	1.1	266
3	Sodium and potassium intakes among US adults: NHANES 2003-2008. <i>American Journal of Clinical Nutrition</i> , 2012, 96, 647-657.	2.2	225
4	Introduction of $\beta$ -Carotene-Rich Orange Sweet Potato in Rural Uganda Resulted in Increased Vitamin A Intakes among Children and Women and Improved Vitamin A Status among Children. <i>Journal of Nutrition</i> , 2012, 142, 1871-1880.	1.3	213
5	Estimation of Usual Intake Distributions of Nutrients and Foods. <i>Journal of Nutrition</i> , 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. <i>British Journal of Nutrition</i> , 2012, 108, 163-176.	1.2	191
7	Development of an Approach for Estimating Usual Nutrient Intake Distributions at the Population Level. <i>Journal of Nutrition</i> , 1997, 127, 1106-1112.	1.3	178
8	Close Correspondence between the Motions from Principal Component Analysis of Multiple HIV-1 Protease Structures and Elastic Network Modes. <i>Structure</i> , 2008, 16, 321-330.	1.6	157
9	Parametric and Nonparametric Statistical Methods for Genomic Selection of Traits with Additive and Epistatic Genetic Architectures. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1027-1046.	0.8	148
10	Validity of predictive equations for 24-h urinary sodium excretion in adults aged 18-39 y. <i>American Journal of Clinical Nutrition</i> , 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. <i>American Journal of Clinical Nutrition</i> , 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. <i>PLoS ONE</i> , 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 Study. <i>Journal of Nutrition</i> , 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. <i>Journal of Nutrition</i> , 2016, 146, 1856S-1865S.	1.3	97
15	The choice of statistical models in road safety countermeasure effectiveness studies in Iowa. <i>Accident Analysis and Prevention</i> , 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. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 249S-285S.	2.2	89
17	Gene Expression Patterns During Somatic Embryo Development and Germination in Maize Hi II Callus Cultures. <i>Plant Molecular Biology</i> , 2006, 62, 1-14.	2.0	80
18	Perspective: Proposed Harmonized Nutrient Reference Values for Populations. <i>Advances in Nutrition</i> , 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. <i>Thyroid</i> , 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 Older <sup>1&amp;#x2013;3</sup> . <i>Journal of Nutrition</i> , 2010, 140, 595-599.	1.3	65
21	Driving behavior at a roundabout: A hierarchical Bayesian regression analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2014, 26, 20-26.	3.2	62
22	A Complete Diet-Based Algorithm for Predicting Nonheme Iron Absorption in Adults <sup>1,2</sup> . <i>Journal of Nutrition</i> , 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. <i>Journal of the American Dietetic Association</i> , 2003, 103, 1008-1014.	1.3	55
24	Metamodels and nonpoint pollution policy in agriculture. <i>Water Resources Research</i> , 1993, 29, 1579-1587.	1.7	53
25	Validity of 24-h Physical Activity Recall. <i>Medicine and Science in Sports and Exercise</i> , 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. <i>Public Health Nutrition</i> , 2005, 8, 69-76.	1.1	52
27	Fortification: new findings and implications. <i>Nutrition Reviews</i> , 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 18&#x2013;39 y. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 376-386.	2.2	46
29	Iowa's Experience with Road Diet Measures. <i>Transportation Research Record</i> , 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. <i>Public Health Nutrition</i> , 2005, 8, 69-76.	1.1	42
31	Validation of a Computerized 24-Hour Physical Activity Recall (24PAR) Instrument With Pattern-Recognition Activity Monitors. <i>Journal of Physical Activity and Health</i> , 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), 2003&#x2013;2006. <i>American Journal of Clinical Nutrition</i> , 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. <i>American Journal of Clinical Nutrition</i> , 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. <i>Journal of Nutrition</i> , 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. <i>Transportation Research Record</i> , 2006, 1953, 163-171.	1.0	39
36	Usual Vitamin Intakes by Mexican Populations. <i>Journal of Nutrition</i> , 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. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 228-233.	2.2	38
38	Analysis of occupant injury severity in winter weather crashes: A fully Bayesian multivariate approach. <i>Analytic Methods in Accident Research</i> , 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. <i>Nutrition Journal</i> , 2018, 17, 114.	1.5	36
40	Production Efficiency and Agricultural Reform in Ukraine. <i>American Journal of Agricultural Economics</i> , 1994, 76, 629-635.	2.4	34
41	Evaluation of Dietary Intake Data Using the Tolerable Upper Intake Levels. <i>Journal of Nutrition</i> , 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. <i>Journal of Nutrition</i> , 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. <i>American Journal of Clinical Nutrition</i> , 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. <i>Journal of Nutrition</i> , 2016, 146, 1043-1050.	1.3	33
45	Using Classification Trees for Predicting National Bridge Inventory Condition Ratings. <i>Journal of Infrastructure Systems</i> , 2013, 19, 425-433.	1.0	32
46	Modeling a methylmalonic acid-derived change point for serum vitamin B-12 for adults in NHANES. <i>American Journal of Clinical Nutrition</i> , 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. <i>Nutrients</i> , 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. <i>Journal of Nutrition</i> , 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. <i>Journal of Nutrition</i> , 2018, 148, 490-496.	1.3	31
50	An Analysis of Grain Production Decline During the Early Transition in Ukraine: A Bayesian Inference. <i>American Journal of Agricultural Economics</i> , 2002, 84, 1256-1263.	2.4	30
51	Biofortified $\beta$ -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. <i>American Journal of Clinical Nutrition</i> , 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 Adequacy. <i>Journal of Nutrition</i> , 2010, 140, 2094S-2101S.	1.3	29
53	Mathematical modeling of dendritic growth in vitro. <i>Brain Research</i> , 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. <i>Journal of Nutrition</i> , 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. <i>Nutrients</i> , 2018, 10, 1730.	1.7	28
56	Machine Learning in Forensic Applications. <i>Significance</i> , 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. <i>Journal of the American Dietetic Association</i> , 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. <i>Nutrition Research</i> , 2017, 45, 30-37.	1.3	22
59	Usual Dietary Energy Density Distribution Is Positively Associated with Excess Body Weight in Mexican Children. <i>Journal of Nutrition</i> , 2015, 145, 1524-1530.	1.3	21
60	Variation in the iodine concentrations of foods: considerations for dietary assessment. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 877S-887S.	2.2	21
61	Comparison of 2 methods for estimating the prevalences of inadequate and excessive iodine intakes. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 888S-897S.	2.2	19
62	Statistical evaluation of dendritic growth models. <i>Bulletin of Mathematical Biology</i> , 1991, 53, 579-589.	0.9	16
63	Total Iron Bioavailability from the US Diet Is Lower Than the Current Estimate. <i>Journal of Nutrition</i> , 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, 2003-2010. <i>Nutrients</i> , 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. <i>Food and Nutrition Research</i> , 2019, 63, .	1.2	13
66	Treatment of inconclusives in the AFTE range of conclusions. <i>Law, Probability and Risk</i> , 2021, 19, 317-364.	1.2	13
67	Predicted efficacy of the Palestinian wheat flour fortification programme: complementary analysis of biochemical and dietary data. <i>Public Health Nutrition</i> , 2015, 18, 1358-1368.	1.1	11
68	An algorithm to compare two-dimensional footwear outsole images using maximum cliques and speeded-up robust feature. <i>Statistical Analysis and Data Mining</i> , 2020, 13, 188-199.	1.4	11
69	Heterogeneous Variances in Multi-Environment Yield Trials for Corn Hybrids. <i>Crop Science</i> , 2014, 54, 1048-1056.	0.8	9
70	Algorithmic approaches to match degraded land impressions. <i>Law, Probability and Risk</i> , 2017, 16, 203-221.	1.2	9
71	A Bayesian assessment of the effect of highway bypasses in Iowa on crashes and crash rate. <i>Journal of Safety Research</i> , 2011, 42, 241-252.	1.7	8
72	Selecting desirable micronutrient fortificants for plant-based complementary foods for infants and young children in low-income countries. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 221-224.	1.7	8

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73	Quality Control for Scientific Research: Addressing Reproducibility, Responsiveness, and Relevance. <i>American Statistician</i> , 2019, 73, 46-55.	0.9	8
74	Irreducibility and efficiency of ESIP to sample marker genotypes in large pedigrees with loops. <i>Genetics Selection Evolution</i> , 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. <i>Maternal and Child Nutrition</i> , 2014, 10, 112-125.	1.4	7
76	A clustering method for graphical handwriting components and statistical writership analysis. <i>Statistical Analysis and Data Mining</i> , 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. <i>Journal of Nutrition</i> , 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. <i>Journal of Nutrition</i> , 2015, 145, 1623-1629.	1.3	6
79	Application of Response Surface Methods To Determine Conditions for Optimal Genomic Prediction. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 3103-3113.	0.8	5
80	A database of elemental compositions of architectural float glass samples measured by LA-ICP-MS. <i>Data in Brief</i> , 2020, 30, 105449.	0.5	5
81	Modeling energy balance while correcting for measurement error via free knot splines. <i>PLoS ONE</i> , 2018, 13, e0201892.	1.1	4
82	Repeated Measurements on Distinct Scales With Censoring—A Bayesian Approach Applied to Microarray Analysis of Maize. <i>Journal of the American Statistical Association</i> , 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. <i>Advances in Nutrition</i> , 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. <i>Nutrients</i> , 2022, 14, 528.	1.7	3
85	Understanding and Assessing Nutrition. <i>Annual Review of Statistics and Its Application</i> , 2017, 4, 123-146.	4.1	2
86	Stephen Elliott Fienberg 1942–2016, Founding Editor of the <i>Annual Review of Statistics and Its Application</i> . <i>Annual Review of Statistics and Its Application</i> , 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. <i>Journal of Applied Statistics</i> , 2021, 48, 1833-1860.	0.6	2
88	The effect of image descriptors on the performance of classifiers of footwear outsole image pairs. <i>Forensic Science International</i> , 2021, 331, 111126.	1.3	1
89	Bayesian Methods for Microarray Data. <i>Handbook of Statistics</i> , 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. <i>FASEB Journal</i> , 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) 2003–2006. <i>FASEB Journal</i> , 2010, 24, 221.2.	0.2	0
92	A complete meal based algorithm for predicting nonheme iron absorption. <i>FASEB Journal</i> , 2012, 26, 365.7.	0.2	0
93	Usual dietary energy density distribution is associated with excess body weight in Mexican children (130.3). <i>FASEB Journal</i> , 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. <i>Circulation</i> , 2015, 131, .	1.6	0
95	The relationship between moderate to vigorous physical activity and metabolic syndrome: a Bayesian measurement error approach. <i>Journal of Applied Statistics</i> , 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. <i>Journal of Applied Statistics</i> , 0, , 1-19.	0.6	0