Rajavel Elango

List of Publications by Citations

105 papers	2,177 citations	29 h-index	44 g-index
115 ext. papers	2,614 ext. citations	3.8 avg, IF	5.42 L-index

#	Paper	IF	Citations
105	High-throughput and simultaneous measurement of homocysteine and cysteine in human plasma and urine by liquid chromatography-electrospray tandem mass spectrometry. *Analytical Biochemistry*, **2007**, 371, 71-81	3.1	115
104	Reevaluation of the protein requirement in young men with the indicator amino acid oxidation technique. *American Journal of Clinical Nutrition*, **2007**, 86, 995-1002	7	109
103	Indicator amino acid oxidation: concept and application. *Journal of Nutrition*, **2008**, 138, 243-6	4.1	94
102	Amino acid requirements in humans: with a special emphasis on the metabolic availability of amino acids. *Amino Acids*, **2009**, 37, 19-27	3.5	90
101	Development of Minimally Invasive 13C-Glucose Breath Test to Examine Different Dietary Therapies in Patients with Glycogen Storage Disorders. *Current Developments in Nutrition*, **2020**, 4, 1149-1149	0.4	78
100	Assessing the Effectiveness of Targeted Social Media and Printed Posters as Tools to Recruit Pregnant Women to a Nutrition Trial in Vancouver, Canada. *Current Developments in Nutrition*, **2020**, 4, 1165-1165	0.4	78
99	Amino Acid Status in Pregnancy: Urinary Catabolites As Non-Invasive Biomarkers. *Current Developments in Nutrition*, **2020**, 4, 1072-1072	0.4	78
98	Protein requirement of healthy school-age children determined by the indicator amino acid oxidation method. *American Journal of Clinical Nutrition*, **2011**, 94, 1545-52	7	73
97	Host conditioning and rejection monitoring in hepatocyte transplantation in humans. *Journal of Hepatology*, **2017**, 66, 987-1000	13.4	69
96	Dietary protein requirement of female adults >65 years determined by the indicator amino acid oxidation technique is higher than current recommendations. *Journal of Nutrition*, **2015**, 145, 18-24	4.1	68
95	Assessment of protein requirement in octogenarian women with use of the indicator amino acid oxidation technique. *American Journal of Clinical Nutrition*, **2014**, 99, 891-8	7	64
94	Recent advances in determining protein and amino acid requirements in humans. *British Journal of Nutrition*, **2012**, 108 Suppl 2, S22-30	3.6	64
93	Evidence that protein requirements have been significantly underestimated. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2010**, 13, 52-7	3.8	59
92	Protein and Amino Acid Requirements during Pregnancy. *Advances in Nutrition*, **2016**, 7, 839S-44S	10	51
91	Total sulfur amino acid requirement of healthy school-age children as determined by indicator amino acid oxidation technique. *American Journal of Clinical Nutrition*, **2006**, 83, 619-23	7	51
90	Lysine requirement of healthy school-age children determined by the indicator amino acid oxidation method. *American Journal of Clinical Nutrition*, **2007**, 86, 360-5	7	49
89	Protein requirements of healthy pregnant women during early and late gestation are higher than current recommendations. *Journal of Nutrition*, **2015**, 145, 73-8	4.1	47

88	Dietary Protein Requirement of Men >65 Years Old Determined by the Indicator Amino Acid Oxidation Technique Is Higher than the Current Estimated Average Requirement. *Journal of Nutrition*, **2015**, 146, 681-687	4.1	43
87	Indicator amino acid oxidation is not affected by period of adaptation to a wide range of lysine intake in healthy young men. *Journal of Nutrition*, **2009**, 139, 1082-7	4.1	42
86	Measurement of homocysteine and related metabolites in human plasma and urine by liquid chromatography electrospray tandem mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 3282-91	3.2	41
85	The branched-chain amino acid requirement of parenterally fed neonatal piglets is less than the enteral requirement. *Journal of Nutrition*, **2002**, 132, 3123-9	4.1	41
84	Individual amino acid requirements in humans: an update. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2008**, 11, 34-9	3.8	38
83	Determination of the tolerable upper intake level of leucine in adult men. *Journal of Nutrition*, **2012** , 142, 2220S-2224S	4.1	36
82	Protein: A nutrient in focus. *Applied Physiology, Nutrition and Metabolism*, **2015**, 40, 755-61	3	34
81	Determination of the tolerable upper intake level of leucine in acute dietary studies in young men. *American Journal of Clinical Nutrition*, **2012**, 96, 759-67	7	33
80	An approach to defining the upper safe limits of amino acid intake. *Journal of Nutrition*, **2008**, 138, 1996S-2002S	4.1	33
79	Protein Requirements during Aging. *Nutrients*, **2016**, 8,	6.7	31
78	Lysine requirements of moderately undernourished school-aged Indian children are reduced by treatment for intestinal parasites as measured by the indicator amino acid oxidation technique. *Journal of Nutrition*, **2015**, 145, 954-9	4.1	29
77	Minimum methionine requirement and cysteine sparing of methionine in healthy school-age children. *American Journal of Clinical Nutrition*, **2006**, 84, 1080-5	7	29
76	Available versus digestible amino acids - new stable isotope methods. *British Journal of Nutrition*, **2012**, 108 Suppl 2, S306-14	3.6	26
75	Application of the indicator amino acid oxidation technique for the determination of metabolic availability of sulfur amino acids from casein versus soy protein isolate in adult men. *Journal of Nutrition*, **2007**, 137, 1874-9	4.1	25
74	Milk Fat Globule Membrane Supplementation in Formula-fed Rat Pups Improves Reflex Development and May Alter Brain Lipid Composition. *Scientific Reports*, **2018**, 8, 15277	4.9	24
73	Recent developments in understanding protein needs - How much and what kind should we eat?. *Applied Physiology, Nutrition and Metabolism*, **2016**, 41, 577-80	3	23
72	Lysine requirement of healthy, school-aged Indian children determined by the indicator amino acid oxidation technique. *Journal of Nutrition*, **2010**, 140, 54-9	4.1	23
71	Fetal DHA inadequacy and the impact on child neurodevelopment: a follow-up of a randomised trial of maternal DHA supplementation in pregnancy. *British Journal of Nutrition*, **2018**, 119, 271-279	3.6	21

70	Lysine from cooked white rice consumed by healthy young men is highly metabolically available when assessed using the indicator amino acid oxidation technique. *Journal of Nutrition*, **2013**, 143, 302-6	4.1	17
69	Lysine □ketoglutarate reductase, but not saccharopine dehydrogenase, is subject to substrate inhibition in pig liver. *Nutrition Research*, **2011**, 31, 544-54	4	17
68	Determination of the safety of leucine supplementation in healthy elderly men. *Amino Acids*, **2016**, 48, 1707-16	3.5	17
67	Lysine Requirements of Healthy Pregnant Women are Higher During Late Stages of Gestation Compared to Early Gestation. *Journal of Nutrition*, **2018**, 148, 94-99	4.1	16
66	Safety and Tolerability of Leucine Supplementation in Elderly Men. *Journal of Nutrition*, **2016**, 146, 2630S-2634S	4.1	16
65	Human Milk Plasmalogens Are Highly Enriched in Long-Chain PUFAs. *Journal of Nutrition*, **2016**, 146, 2412-2417	4.1	16
64	Healthy pregnant women in Canada are consuming more dietary protein at 16- and 36-week gestation than currently recommended by the Dietary Reference Intakes, primarily from dairy food sources. *Nutrition Research*, **2014**, 34, 569-76	4	16
63	Treatment of Creatine Transporter (SLC6A8) Deficiency With Oral S-Adenosyl Methionine as Adjunct to L-arginine, Glycine, and Creatine Supplements. *Pediatric Neurology*, **2015**, 53, 360-363.e2	2.9	16
62	Metabolic Availability of the Limiting Amino Acids Lysine and Tryptophan in Cooked White African Cornmeal Assessed in Healthy Young Men Using the Indicator Amino Acid Oxidation Technique. *Journal of Nutrition*, **2018**, 148, 917-924	4.1	14
61	Relationships among Different Water-Soluble Choline Compounds Differ between Human Preterm and Donor Milk. *Nutrients*, **2017**, 9,	6.7	14
60	Dietary leucine requirement of older men and women is higher than current recommendations. *American Journal of Clinical Nutrition*, **2021**, 113, 410-419	7	13
59	Assessing resting energy expenditure in overweight and obese adolescents in a clinical setting: validity of a handheld indirect calorimeter. *Pediatric Research*, **2017**, 81, 51-56	3.2	12
58	Methionine Nutrition and Metabolism: Insights from Animal Studies to Inform Human Nutrition. *Journal of Nutrition*, **2020**, 150, 2518S-2523S	4.1	10
57	Dietary phenylalanine requirements during early and late gestation in healthy pregnant women. *American Journal of Clinical Nutrition*, **2020**, 111, 351-359	7	10
56	Proposals for Upper Limits of Safe Intake for Arginine and Tryptophan in Young Adults and an Upper Limit of Safe Intake for Leucine in the Elderly. *Journal of Nutrition*, **2016**, 146, 2652S-2654S	4.1	9
55	Evaluation of A Concentrated Preterm Formula as a Liquid Human Milk Fortifier in Preterm Babies at Increased Risk of Feed Intolerance. *Nutrients*, **2018**, 10,	6.7	9
54	Dextrose gels for neonatal transitional hypoglycemia: What are we giving our babies?. *Paediatrics and Child Health*, **2019**, 24, 115-118	0.7	8
53	Translating "protein foods" from the new Canadian Food Guide to consumers: knowledge gaps and recommendations. *Applied Physiology, Nutrition and Metabolism*, **2020**, 45, 1311-1323	3	8

52	Protein Quality Assessment of Follow-up Formula for Young Children and Ready-to-Use Therapeutic Foods: Recommendations by the FAO Expert Working Group in 2017. *Journal of Nutrition*, **2020**, 150, 195-201	4.1	7
51	Effects of Maternal Nutritional Supplements and Dietary Interventions on Placental Complications: An Umbrella Review, Meta-Analysis and Evidence Map. *Nutrients*, **2021**, 13,	6.7	7
50	Impact of enteral arginine supplementation on lysine metabolism in humans: A proof-of-concept for lysine-related inborn errors of metabolism. *Journal of Inherited Metabolic Disease*, **2020**, 43, 952-959	5.4	6
49	Total Sulfur Amino Acid Requirements Are Not Altered in Children with Chronic Renal Insufficiency, but Minimum Methionine Needs Are Increased. *Journal of Nutrition*, **2017**, 147, 1954-1959	4.1	6
48	Parenteral and enteral routes of feeding in neonatal piglets require different ratios of branched-chain amino acids. *Journal of Nutrition*, **2004**, 134, 72-8	4.1	6
47	Comparison of methodologies used to define the protein quality of human foods and support regulatory claims. *Applied Physiology, Nutrition and Metabolism*, **2020**, 45, 917-926	3	6
46	Bioavailable Methionine Assessed Using the Indicator Amino Acid Oxidation Method Is Greater When Cooked Chickpeas and Steamed Rice Are Combined in Healthy Young Men. *Journal of Nutrition*, **2020**, 150, 1834-1844	4.1	6
45	The missing focus on women's health in the First 1,000 days approach to nutrition. *Public Health Nutrition*, **2021**, 24, 1526-1530	3.3	6
44	Minimally invasive (13)C-breath test to examine phenylalanine metabolism in children with phenylketonuria. *Molecular Genetics and Metabolism*, **2015**, 115, 78-83	3.7	5
43	Reply to DJ Millward and AA Jackson. *American Journal of Clinical Nutrition*, **2012**, 95, 1501-1502	7	4
42	Dispensable Amino Acids, except Glutamine and Proline, Are Ideal Nitrogen Sources for Protein Synthesis in the Presence of Adequate Indispensable Amino Acids in Adult Men. *Journal of Nutrition* , **2020**, 150, 2398-2404	4.1	4
41	Cardiac Autonomic Function at Baseline and under Stress and Its Relationship to Circulatory Markers of Inflammation in Obese Compared to Nonobese Children: A Pilot Study. *Hormone Research in Paediatrics*, **2016**, 85, 339-46	3.3	4
40	Tryptophan Requirement in School-Age Children Determined by the Indicator Amino Acid Oxidation Method is Similar to Current Recommendations. *Journal of Nutrition*, **2019**, 149, 280-285	4.1	4
39	Glycine, a Dispensable Amino Acid, Is Conditionally Indispensable in Late Stages of Human Pregnancy. *Journal of Nutrition*, **2021**, 151, 361-369	4.1	4
38	Splanchnic first pass disappearance of threonine and lysine do not differ in healthy men in the fed state. *Journal of Nutrition*, **2013**, 143, 290-4	4.1	3
37	Indicator amino acid oxidation (1-13C-phenylalanine) is not affected by day of adaptation (1, 3 or 7d) to a wide range of lysine intake in young men. *FASEB Journal*, **2006**, 20, A9	0.9	3
36	Maternal Dietary Patterns and Pregnancy Hypertension in Low- and Middle-Income Countries: A Systematic Review and Meta-analysis. *Advances in Nutrition*, **2021**, 12, 2387-2400	10	3
35	Tolerable amounts of amino acids for human supplementation: summary and lessons from published peer-reviewed studies. *Amino Acids*, **2021**, 53, 1313-1328	3.5	3

34	The Indicator Amino Acid Oxidation Method with the Use of l-[1-13C]Leucine Suggests a Higher than Currently Recommended Protein Requirement in Children with Phenylketonuria. *Journal of Nutrition*, **2017**, 147, 211-217	4.1	2
33	The Phenylalanine Requirement of Elderly Men and Women Measured by Direct 13C Carbon Oxidation Method Is Similar to That of Young Adults. *Journal of Nutrition*, **2019**, 149, 1776-1784	4.1	2
32	Reply to DJ Millward. *American Journal of Clinical Nutrition*, **2014**, 100, 1212-3	7	2
31	Reply to LJ Hoffer. *American Journal of Clinical Nutrition*, **2012**, 95, 777-778	7	2
30	DNA methylation at a nutritionally sensitive region of the gene is associated with thyroid volume and function in Gambian children. *Science Advances*, **2021**, 7, eabj1561	14.3	2
29	Dietary Aromatic Amino Acid Requirements During Early and Late Gestation in Healthy Pregnant Women. *Journal of Nutrition*, **2020**, 150, 3224-3230	4.1	2
28	Evidence that protein requirements in healthy school-age children are significantly underestimated in current recommendations. *FASEB Journal*, **2009**, 23, 227.8	0.9	2
27	Egg white consumption increases GSH and lowers oxidative damage in 110-week-old geriatric mice hearts. *Journal of Nutritional Biochemistry*, **2020**, 76, 108252	6.3	2
26	Subchronic Tolerance Trials of Graded Oral Supplementation with Phenylalanine or Serine in Healthy Adults. *Nutrients*, **2021**, 13,	6.7	2
25	A discussion on the ▯dispensable▯amino acids. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2021**, 24, 395-401	3.8	2
24	Proposals for Upper Limits of Safe Intake for Methionine, Histidine, and Lysine in Healthy Humans. *Journal of Nutrition*, **2020**, 150, 2606S-2608S	4.1	1
23	Protein Requirements of Healthy Lactating Women Are Higher Than the Current Recommendations. *Current Developments in Nutrition*, **2020**, 4, 653-653	0.4	1
22	1.3.3 Protein **2008**, 37-41		1
21	Tolerability of Leucine in Humans **2015**, 3-13		1
20	Protein Requirements in Children with Phenylketonuria (PKU). *FASEB Journal*, **2015**, 29, 742.9	0.9	1
19	Determination of the Tolerable Upper Limit (UL) of Leucine Intake in Adult Humans. *FASEB Journal*, **2010**, 24, lb274	0.9	1
18	Is untargeted iron supplementation harmful when iron deficiency is not the major cause of anaemia? Study protocol for a double-blind, randomised controlled trial among non-pregnant Cambodian women. *BMJ Open*, **2020**, 10, e037232	3	1
17	Dietary management and growth outcomes in children with propionic acidemia: A natural history study. *JIMD Reports*, **2021**, 61, 67-75	1.9	1

16	High-dose parenteral amino acid intake in very low birthweight infants: what is the current evidence?. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2019**, 22, 236-241	3.8	1
15	Corrected fortification approach improves the protein and energy content of preterm human milk compared with standard fixed-dose fortification. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2021**, 106, 232-237	4.7	1
14	Lysine Bioavailability in School-Age Children Consuming Rice Is Reduced by Starch Retrogradation. *Journal of Nutrition*, **2020**, 150, 3208-3215	4.1	0
13	Is Iron Supplementation Harmful in Populations Where Iron Deficiency Is Not the Cause of Anemia? Protocol for a 12 Week RCT in Cambodia. *Current Developments in Nutrition*, **2020**, 4, 1737-1737	0.4	0
12	Bioavailable Lysine, Assessed in Healthy Young Men Using Indicator Amino Acid Oxidation, is Greater when Cooked Millet and Stewed Canadian Lentils are Combined. *Journal of Nutrition*, **2020**, 150, 2729-2737	4.1	0
11	Development of minimally invasive C-glucose breath test to examine different exogenous carbohydrate sources in patients with glycogen storage disease type Ia.. *Molecular Genetics and Metabolism Reports*, **2022**, 31, 100880	1.8	0
10	Energy Metabolism in Gynecological Cancers: A Scoping Review. *International Journal of Environmental Research and Public Health*, **2022**, 19, 6419	4.6	0
9	Determining ideal balance among branched-chain amino acids in medical formula for Propionic Acidemia: A proof of concept study in healthy children.. *Molecular Genetics and Metabolism*, **2021**, 135, 56-56	3.7	
8	Beyond Reproduction: The "First 1,000 Days" Approach to Nutrition through a Gendered Rights-Based Lens. *Health and Human Rights*, **2020**, 22, 113-123	1.1	
7	Dietary cysteine spares the methionine requirement in healthy school-aged children. *FASEB Journal* , **2006**, 20, A1043	0.9	
6	Lysine requirement in healthy school-aged children determined by indicator amino acid oxidation method. *FASEB Journal*, **2007**, 21, A333	0.9	
5	Protein requirements in healthy school-age children determined by using the indicator amino acid oxidation technique. *FASEB Journal*, **2008**, 22, 869.19	0.9	
4	Determination of the Tolerable Upper Intake Level of Leucine in Healthy Elderly (70-75y). *FASEB Journal*, **2015**, 29, 129.6	0.9	
3	Protein requirement of elderly women determined using the indicator amino acid oxidation technique. *FASEB Journal*, **2012**, 26, 42.5	0.9	
2	Dietary protein requirement of 65–75 year old adult males using indicator amino acid oxidation (IAAO) technique. *FASEB Journal*, **2013**, 27, 1075.12	0.9	
1	Perceptions of expressed breast milk for preterm infants in Malawian hospitals: A qualitative study. *Journal of Neonatal Nursing*, **2021**, 28, 113-113	1	