Rajavel Elango

List of Publications by Year in Descending Order

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	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
104	Energy Metabolism in Gynecological Cancers: A Scoping Review. *International Journal of Environmental Research and Public Health*, **2022**, 19, 6419	4.6	0
103	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	
102	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
101	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
100	Subchronic Tolerance Trials of Graded Oral Supplementation with Phenylalanine or Serine in Healthy Adults. *Nutrients*, **2021**, 13,	6.7	2
99	Dietary management and growth outcomes in children with propionic acidemia: A natural history study. *JIMD Reports*, **2021**, 61, 67-75	1.9	1
98	The missing focus on womenRs health in the First 1,000 days approach to nutrition. *Public Health Nutrition*, **2021**, 24, 1526-1530	3.3	6
97	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
96	Dietary leucine requirement of older men and women is higher than current recommendations. *American Journal of Clinical Nutrition*, **2021**, 113, 410-419	7	13
95	Glycine, a Dispensable Amino Acid, Is Conditionally Indispensable in Late Stages of Human Pregnancy. *Journal of Nutrition*, **2021**, 151, 361-369	4.1	4
94	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
93	Perceptions of expressed breast milk for preterm infants in Malawian hospitals: A qualitative study. *Journal of Neonatal Nursing*, **2021**, 28, 113-113	1	
92	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
91	A discussion on the RdispensableRamino acids. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2021**, 24, 395-401	3.8	2
90	Lysine Bioavailability in School-Age Children Consuming Rice Is Reduced by Starch Retrogradation. *Journal of Nutrition*, **2020**, 150, 3208-3215	4.1	0
89	Methionine Nutrition and Metabolism: Insights from Animal Studies to Inform Human Nutrition. *Journal of Nutrition*, **2020**, 150, 2518S-2523S	4.1	10

88	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
87	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
86	Protein Requirements of Healthy Lactating Women Are Higher Than the Current Recommendations. *Current Developments in Nutrition*, **2020**, 4, 653-653	0.4	1
85	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
84	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	
83	Dietary Aromatic Amino Acid Requirements During Early and Late Gestation in Healthy Pregnant Women. *Journal of Nutrition*, **2020**, 150, 3224-3230	4.1	2
82	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
81	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
80	Dietary phenylalanine requirements during early and late gestation in healthy pregnant women. *American Journal of Clinical Nutrition*, **2020**, 111, 351-359	7	10
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	Amino Acid Status in Pregnancy: Urinary Catabolites As Non-Invasive Biomarkers. *Current Developments in Nutrition*, **2020**, 4, 1072-1072	0.4	78
71	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

70	Dextrose gels for neonatal transitional hypoglycemia: What are we giving our babies?. *Paediatrics and Child Health*, **2019**, 24, 115-118	0.7	8
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	Host conditioning and rejection monitoring in hepatocyte transplantation in humans. *Journal of Hepatology*, **2017**, 66, 987-1000	13.4	69
59	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
58	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
57	Relationships among Different Water-Soluble Choline Compounds Differ between Human Preterm and Donor Milk. *Nutrients*, **2017**, 9,	6.7	14
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	Protein and Amino Acid Requirements during Pregnancy. *Advances in Nutrition*, **2016**, 7, 839S-44S	10	51
54	Safety and Tolerability of Leucine Supplementation in Elderly Men. *Journal of Nutrition*, **2016**, 146, 2630S-2634S	4.1	16
53	Human Milk Plasmalogens Are Highly Enriched in Long-Chain PUFAs. *Journal of Nutrition*, **2016**, 146, 2412-2417	4.1	16

52	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
51	Protein Requirements during Aging. *Nutrients*, **2016**, 8,	6.7	31
50	Determination of the safety of leucine supplementation in healthy elderly men. *Amino Acids*, **2016**, 48, 1707-16	3.5	17
49	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
48	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
47	Protein: A nutrient in focus. *Applied Physiology, Nutrition and Metabolism*, **2015**, 40, 755-61	3	34
46	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
45	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
44	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
43	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
42	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
41	Tolerability of Leucine in Humans **2015**, 3-13		1
40	Determination of the Tolerable Upper Intake Level of Leucine in Healthy Elderly (70-75y). *FASEB Journal*, **2015**, 29, 129.6	0.9	
39	Protein Requirements in Children with Phenylketonuria (PKU). *FASEB Journal*, **2015**, 29, 742.9	0.9	1
38	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
37	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
36	Reply to DJ Millward. *American Journal of Clinical Nutrition*, **2014**, 100, 1212-3	7	2
35	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

34	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
33	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	
32	Determination of the tolerable upper intake level of leucine in adult men. *Journal of Nutrition*, **2012**, 142, 2220S-2224S	4.1	36
31	Reply to DJ Millward and AA Jackson. *American Journal of Clinical Nutrition*, **2012**, 95, 1501-1502	7	4
30	Recent advances in determining protein and amino acid requirements in humans. *British Journal of Nutrition*, **2012**, 108 Suppl 2, S22-30	3.6	64
29	Reply to LJ Hoffer. *American Journal of Clinical Nutrition*, **2012**, 95, 777-778	7	2
28	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
27	Available versus digestible amino acids - new stable isotope methods. *British Journal of Nutrition*, **2012**, 108 Suppl 2, S306-14	3.6	26
26	Protein requirement of elderly women determined using the indicator amino acid oxidation technique. *FASEB Journal*, **2012**, 26, 42.5	0.9	
25	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
24	Lysine □ketoglutarate reductase, but not saccharopine dehydrogenase, is subject to substrate inhibition in pig liver. *Nutrition Research*, **2011**, 31, 544-54	4	17
23	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
22	Evidence that protein requirements have been significantly underestimated. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2010**, 13, 52-7	3.8	59
21	Determination of the Tolerable Upper Limit (UL) of Leucine Intake in Adult Humans. *FASEB Journal*, **2010**, 24, lb274	0.9	1
20	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
19	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
18	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
17	Evidence that protein requirements in healthy school-age children are significantly underestimated in current recommendations. *FASEB Journal*, **2009**, 23, 227.8	0.9	2

16	An approach to defining the upper safe limits of amino acid intake. *Journal of Nutrition*, **2008**, 138, 1996S-2002S	4.1	33
15	Indicator amino acid oxidation: concept and application. *Journal of Nutrition*, **2008**, 138, 243-6	4.1	94
14	Individual amino acid requirements in humans: an update. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2008**, 11, 34-9	3.8	38
13	1.3.3 Protein **2008**, 37-41		1
12	Protein requirements in healthy school-age children determined by using the indicator amino acid oxidation technique. *FASEB Journal*, **2008**, 22, 869.19	0.9	
11	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
10	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
9	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
8	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
7	Lysine requirement in healthy school-aged children determined by indicator amino acid oxidation method. *FASEB Journal*, **2007**, 21, A333	0.9	
6	Minimum methionine requirement and cysteine sparing of methionine in healthy school-age children. *American Journal of Clinical Nutrition*, **2006**, 84, 1080-5	7	29
5	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
4	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
3	Dietary cysteine spares the methionine requirement in healthy school-aged children. *FASEB Journal* , **2006**, 20, A1043	0.9	
2	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
1	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