

# Arunkumar Elumalai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/468631/publications.pdf>

Version: 2024-02-01

14  
papers

449  
citations

1039880

9  
h-index

1058333

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

817  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Vitamin D supplementation inhibits oxidative stress and upregulate SIRT1/AMPK/GLUT4 cascade in high glucose-treated 3T3L1 adipocytes and in adipose tissue of high fat diet-fed diabetic mice. Archives of Biochemistry and Biophysics, 2017, 615, 22-34.  | 1.4 | 130       |
| 2  | An intervention study in obese mice with astaxanthin, a marine carotenoid – effects on insulin signaling and pro-inflammatory cytokines. Food and Function, 2012, 3, 120-126.  | 2.1 | 90        |
| 3  | Glutathione Stimulates Vitamin D Regulatory and Glucose-Metabolism Genes, Lowers Oxidative Stress and Inflammation, and Increases 25-Hydroxy-Vitamin D Levels in Blood: A Novel Approach to Treat 25-Hydroxyvitamin D Deficiency. Antioxidants and Redox Signaling, 2018, 29, 1792-1807.                 | 2.5 | 69        |
| 4  | Genistein promotes insulin action through adenosine monophosphate-activated protein kinase activation and p70 ribosomal protein S6 kinase 1 inhibition in the skeletal muscle of mice fed a high energy diet. Nutrition Research, 2012, 32, 617-625.   | 1.3 | 33        |
| 5  | 1,25(OH) <sub>2</sub> -vitamin D <sub>3</sub> upregulates glucose uptake mediated by SIRT1/IRS1/GLUT4 signaling cascade in C2C12 myotubes. Molecular and Cellular Biochemistry, 2018, 444, 103-108.  | 1.4 | 30        |
| 6  | L-Cysteine supplementation increases adiponectin synthesis and secretion, and GLUT4 and glucose utilization by upregulating disulfide bond A-like protein expression mediated by MCP-1 inhibition in 3T3-L1 adipocytes exposed to high glucose. Molecular and Cellular Biochemistry, 2016, 414, 105-113. | 1.4 | 19        |
| 7  | A Review on Recent Developments and Applications of Nanozymes in Food Safety and Quality Analysis. Food Analytical Methods, 2021, 14, 1537-1558.   | 1.3 | 19        |
| 8  | L-Cysteine supplementation increases insulin sensitivity mediated by upregulation of GSH and adiponectin in high glucose treated 3T3-L1 adipocytes. Archives of Biochemistry and Biophysics, 2017, 630, 54-65.   | 1.4 | 18        |
| 9  | Improvement of nutrient bioavailability in millets: Emphasis on the application of enzymes. Journal of the Science of Food and Agriculture, 2021, 101, 4869-4878.  | 1.7 | 18        |
| 10 | Traditional fruits of South India: Bioactive components and their potential health implications in chronic diseases. Journal of Food Biochemistry, 2021, 45, e13266.   | 1.2 | 7         |
| 11 | Predicting human glucose response curve using an engineered small intestine system in combination with mathematical modeling. Journal of Food Engineering, 2021, 293, 110395.  | 2.7 | 6         |
| 12 | Gastric emptying pattern and disintegration kinetics of cooked rice in a 3D printed <i>in vitro</i> dynamic digestion model ARK <sup>®</sup> . International Journal of Food Engineering, 2021, 17, 385-393.   | 0.7 | 5         |
| 13 | Rosmarinic acid treatment alleviates fibrotic changes in the myocardium induced in a rat model of insulin resistance. Asian Pacific Journal of Tropical Disease, 2012, 2, S920-S926.   | 0.5 | 4         |
| 14 | An investigation on gastric emptying behavior of apple in the dynamic digestion model ARK <sup>®</sup> and its validation using MRI of human subjects – A pilot study. Biochemical Engineering Journal, 2021, 175, 108134.   | 1.8 | 1         |