

# Nambiappan T Saraswathi

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

466  
citations

13  
h-index

18  
g-index

40  
ext. papers

603  
ext. citations

4  
avg, IF

4.39  
L-index

#	Paper	IF	Citations
40	Deteriorating insulin resistance due to WL15 peptide from cysteine and glycine-rich protein 2 in high glucose-induced rat skeletal muscle L6 cells. <i>Cell Biology International</i> , <b>2021</b> , 45, 1698-1709	4.5	12
39	Intracellular ROS scavenging and antioxidant regulation of WL15 from cysteine and glycine-rich protein 2 demonstrated in zebrafish in vivo model. <i>Developmental and Comparative Immunology</i> , <b>2021</b> , 114, 103863	3.2	22
38	Identification of potential phytochemical lead against diabetic cataract: An insilico approach. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1226, 129428	3.4	2
37	Non enzymatic covalent modification by glycolysis end product converts hemoglobin into its oxidative stress potency state. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 534, 387-394	2.4	2
36	Molecular mechanism of down-regulating adipogenic transcription factors in 3T3-L1 adipocyte cells by bioactive anti-adipogenic compounds. <i>Molecular Biology Reports</i> , <b>2021</b> , 48, 743-761	2.8	15
35	Tryptophan-tagged peptide from serine threonine-protein kinase of <i>Channa striatus</i> improves antioxidant defence in L6 myotubes and attenuates caspase 3-dependent apoptotic response in zebrafish larvae. <i>Fish Physiology and Biochemistry</i> , <b>2021</b> , 47, 293-311	2.7	13
34	Peroxiredoxin of <i>Arthrospira platensis</i> derived short molecule YT12 influences antioxidant and anticancer activity. <i>Cell Biology International</i> , <b>2020</b> , 44, 2231-2242	4.5	4
33	Molecular process of glucose uptake and glycogen storage due to hamamelitannin via insulin signalling cascade in glucose metabolism. <i>Molecular Biology Reports</i> , <b>2020</b> , 47, 6727-6740	2.8	13
32	Nordihydroguaiaretic acid prevents glycation induced structural alterations and aggregation of albumin. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 122, 479-484	7.9	7
31	Hydroxy methoxy benzaldehyde from <i>Sesbania grandiflora</i> inhibits the advanced glycation end products (AGEs)-mediated fibrillation in hemoglobin. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2018</b> , 36, 819-829	3.6	3
30	Studies on the growth and characterization of organic crystal L-Arginine glutarate by liquid diffusion technique. <i>Optik</i> , <b>2017</b> , 130, 1408-1413	2.5	1
29	Growth and characterization of L-Lysine adipate crystal. <i>Optics and Laser Technology</i> , <b>2017</b> , 90, 222-225	4.2	4
28	Troloxerutin imparts preservative effects on albumin by preventing Maillard reaction-mediated early and advanced glycation modification. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2017</b> , 35, 2681-2687	3.6	8
27	Linolenic acid prevents early and advanced glycation end-products (AGEs) modification of albumin. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 95, 121-125	7.9	27
26	Aspartic acid functions as carbonyl trapper to inhibit the formation of advanced glycation end products by chemical chaperone activity. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2016</b> , 34, 943-951	3.6	10
25	Carbonyl scavenging and chemical chaperon like function of essential amino acids attenuates non-enzymatic glycation of albumin. <i>RSC Advances</i> , <b>2016</b> , 6, 24557-24564	3.7	7
24	Studies on the growth, spectral, thermal, and optical properties of l-arginine adipate crystal. <i>Optik</i> , <b>2016</b> , 127, 2495-2499	2.5	5

23	Vanillin restrains non-enzymatic glycation and aggregation of albumin by chemical chaperone like function. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 87, 1-6	7.9	31
22	Sinigrin, a major glucosinolate from cruciferous vegetables restrains non-enzymatic glycation of albumin. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 83, 410-5	7.9	33
21	Elucidating the molecular interaction of sinigrin, a potent anticancer glucosinolate from cruciferous vegetables with bovine serum albumin: effect of methylglyoxal modification. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2016</b> , 34, 2224-32	3.6	10
20	Advanced glycation end products induce differential structural modifications and fibrillation of albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 163, 60-7	4.4	12
19	Growth and characterization of an organic nonlinear optical material: L-Histidine malonate. <i>Optics and Laser Technology</i> , <b>2016</b> , 84, 102-106	4.2	13
18	Non-enzymatic glycation mediated structure-function changes in proteins: case of serum albumin. <i>RSC Advances</i> , <b>2016</b> , 6, 90739-90753	3.7	13
17	Silybin, a flavonolignan from milk thistle seeds, restrains the early and advanced glycation end product modification of albumin. <i>RSC Advances</i> , <b>2015</b> , 5, 87660-87666	3.7	12
16	Advanced Glycation End Products Modulate Structure and Drug Binding Properties of Albumin. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 3312-22	5.6	32
15	Advanced Glycation-Modified Human Serum Albumin Evokes Alterations in Membrane and Eryptosis in Erythrocytes. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 177, 1013-24	3.2	18
14	Structural basis for complementary and alternative medicine: Phytochemical interaction with non-structural protein 2 protease-a reverse engineering strategy. <i>Chinese Journal of Integrative Medicine</i> , <b>2015</b> , 21, 445-52	2.9	8
13	A new pipeline to discover antimycotics by inhibiting ergosterol and riboflavin synthesis: the inspirations of Siddha medicine. <i>Medicinal Chemistry Research</i> , <b>2014</b> , 23, 2651-2658	2.2	9
12	High-temperature mechanical properties of reduced NiO/BYSZ anode-supported bi-layer SOFC structures in ambient air and reducing environments. <i>Ceramics International</i> , <b>2013</b> , 39, 3103-3111	5.1	15
11	The therapeutic role of <i>Sesbania grandiflora</i> as an inhibitor of Advanced Glycation Endproduct (AGE) formation and the discovery of lead compounds for managing hyperglycaemia. <i>Planta Medica</i> , <b>2013</b> , 79,	3.1	6
10	Evaluation of elastic properties of reduced NiO-8YSZ anode-supported bi-layer SOFC structures at elevated temperatures in ambient air and reducing environments. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 778-785	4.3	18
9	Structural and Mechanical Stability of Reduced Nickel Oxide/Yttria-stabilized Zirconia Anode/Electrolyte Structures for Solid Oxide Fuel Cell Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1098, 1		
8	Crystallization and preliminary crystallographic analysis of human glycosylated haemoglobin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2006</b> , 62, 106-9		6
7	X-ray studies on crystalline complexes involving amino acids and peptides. XLI. Commonalities in aggregation and conformation revealed by the crystal structures of the pimelic acid complexes of L-arginine and DL-lysine. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2003</b> , 59, 641-6		13
6	X-ray studies on crystalline complexes involving amino acids and peptides. XXXIX. Crystal structures of malonic acid complexes of DL- and L-histidine. Preservation of aggregation pattern on reversal of chirality. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2002</b> , 58, 734-9		7

- 5 X-ray studies on crystalline complexes involving amino acids and peptides. XL. Conformational variability, recurring and new features of aggregation, and effect of chirality in the malonic acid complexes of DL- and L-arginine. *Acta Crystallographica Section B: Structural Science*, **2002**, 58, 1051-6 7
- 4 Effect of stabilizing additives on the structure and hydration of proteins: a study involving monoclinic lysozyme. *Acta Crystallographica Section D: Biological Crystallography*, **2002**, 58, 1162-7 13
- 3 X-ray studies on crystalline complexes involving amino acids and peptides. XXXVII. Novel aggregation patterns and effect of chirality in the complexes of DL- and L-lysine with glutaric acid. *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 366-71 15
- 2 X-ray studies on crystalline complexes involving amino acids and peptides. XXXVIII. Crystal structures of the complexes of L-arginine and L-histidine with glutaric acid and a comparative study of amino acid-glutaric acid complexes. *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 842-9 13
- 1 Effect of medicinal plants on the crystallization of cholesterol. *Journal of Crystal Growth*, **1997**, 179, 611-667 9