

Nambiappan T Saraswathi

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40
papers

466
citations

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h-index

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g-index

40
ext. papers

603
ext. citations

4
avg, IF

4.39
L-index

#	Paper	IF	Citations
40	Sinigrin, a major glucosinolate from cruciferous vegetables restrains non-enzymatic glycation of albumin. <i>International Journal of Biological Macromolecules</i> , 2016 , 83, 410-5	7.9	33
39	Advanced Glycation End Products Modulate Structure and Drug Binding Properties of Albumin. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3312-22	5.6	32
38	Vanillin restrains non-enzymatic glycation and aggregation of albumin by chemical chaperone like function. <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 1-6	7.9	31
37	Linolenic acid prevents early and advanced glycation end-products (AGEs) modification of albumin. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 121-125	7.9	27
36	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> , 2021 , 114, 103863	3.2	22
35	Advanced Glycation-Modified Human Serum Albumin Evokes Alterations in Membrane and Eryptosis in Erythrocytes. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 1013-24	3.2	18
34	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> , 2009 , 44, 778-785	4.3	18
33	High-temperature mechanical properties of reduced NiOBYSZ anode-supported bi-layer SOFC structures in ambient air and reducing environments. <i>Ceramics International</i> , 2013 , 39, 3103-3111	5.1	15
32	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. <i>Acta Crystallographica Section B: Structural Science</i> , 2001 , 57, 366-71		15
31	Molecular mechanism of down-regulating adipogenic transcription factors in 3T3-L1 adipocyte cells by bioactive anti-adipogenic compounds. <i>Molecular Biology Reports</i> , 2021 , 48, 743-761	2.8	15
30	Effect of stabilizing additives on the structure and hydration of proteins: a study involving monoclinic lysozyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1162-7		13
29	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> , 2003 , 59, 641-6		13
28	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. <i>Acta Crystallographica Section B: Structural Science</i> , 2001 , 57, 842-9		13
27	Molecular process of glucose uptake and glycogen storage due to hamamelitannin via insulin signalling cascade in glucose metabolism. <i>Molecular Biology Reports</i> , 2020 , 47, 6727-6740	2.8	13
26	Growth and characterization of an organic nonlinear optical material: L-Histidine malonate. <i>Optics and Laser Technology</i> , 2016 , 84, 102-106	4.2	13
25	Non-enzymatic glycation mediated structure-function changes in proteins: case of serum albumin. <i>RSC Advances</i> , 2016 , 6, 90739-90753	3.7	13
24	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> , 2021 , 47, 293-311	2.7	13

23	Silybin, a flavonolignan from milk thistle seeds, restrains the early and advanced glycation end product modification of albumin. <i>RSC Advances</i> , 2015 , 5, 87660-87666	3.7	12
22	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> , 2021 , 45, 1698-1709	4.5	12
21	Advanced glycation end products induce differential structural modifications and fibrillation of albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 163, 60-7	4.4	12
20	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> , 2016 , 34, 943-516	3.6	10
19	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> , 2016 , 34, 2224-32	3.6	10
18	A new pipeline to discover antimycotics by inhibiting ergosterol and riboflavin synthesis: the inspirations of Siddha medicine. <i>Medicinal Chemistry Research</i> , 2014 , 23, 2651-2658	2.2	9
17	Effect of medicinal plants on the crystallization of cholesterol. <i>Journal of Crystal Growth</i> , 1997 , 179, 611-667	3.6	9
16	Troloxerutin imparts preservative effects on albumin by preventing Maillard reaction-mediated early and advanced glycation modification. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 2681-2687	3.6	8
15	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> , 2015 , 21, 445-52	2.9	8
14	Carbonyl scavenging and chemical chaperon like function of essential amino acids attenuates non-enzymatic glycation of albumin. <i>RSC Advances</i> , 2016 , 6, 24557-24564	3.7	7
13	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> , 2002 , 58, 734-9		7
12	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. <i>Acta Crystallographica Section B: Structural Science</i> , 2002 , 58, 1051-6		7
11	Nordihydroguaiaretic acid prevents glycation induced structural alterations and aggregation of albumin. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 479-484	7.9	7
10	Crystallization and preliminary crystallographic analysis of human glycosylated haemoglobin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 106-9		6
9	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> , 2013 , 79,	3.1	6
8	Studies on the growth, spectral, thermal, and optical properties of l-arginine adipate crystal. <i>Optik</i> , 2016 , 127, 2495-2499	2.5	5
7	Growth and characterization of L-Lysine adipate crystal. <i>Optics and Laser Technology</i> , 2017 , 90, 222-225	4.2	4
6	Peroxiredoxin of <i>Arthrospira platensis</i> derived short molecule YT12 influences antioxidant and anticancer activity. <i>Cell Biology International</i> , 2020 , 44, 2231-2242	4.5	4

- 5 Hydroxy methoxy benzaldehyde from *Sesbania grandiflora* inhibits the advanced glycation end products (AGEs)-mediated fibrillation in hemoglobin. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 819-829 3.6 3
- 4 Identification of potential phytochemical lead against diabetic cataract: An insilico approach. *Journal of Molecular Structure*, **2021**, 1226, 129428 3.4 2
- 3 Studies on the growth and characterization of organic crystal L-Arginine glutarate by liquid diffusion technique. *Optik*, **2017**, 130, 1408-1413 2.5 1
- 2 Structural and Mechanical Stability of Reduced Nickel Oxide/Yttria-stabilized Zirconia Anode/Electrolyte Structures for Solid Oxide Fuel Cell Applications. *Materials Research Society Symposia Proceedings*, **2008**, 1098, 1
- 1 Non enzymatic covalent modification by glycolysis end product converts hemoglobin into its oxidative stress potency state. *Biochemical and Biophysical Research Communications*, **2021**, 534, 387-394²⁻⁴