

# Rangasamy Anandan

## List of Publications by Citations

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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.

78  
papers

1,836  
citations

25  
h-index

41  
g-index

79  
ext. papers

2,128  
ext. citations

3.7  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
78	Effect of squalene on tissue defense system in isoproterenol-induced myocardial infarction in rats. <i>Pharmacological Research</i> , <b>2004</b> , 50, 231-6	10.2	180
77	Distribution of organochlorine pesticides and heavy metal residues in fish and shellfish from Calicut region, Kerala, India. <i>Chemosphere</i> , <b>2006</b> , 65, 583-90	8.4	114
76	Amino Acid compositions of 27 food fishes and their importance in clinical nutrition. <i>Journal of Amino Acids</i> , <b>2014</b> , 2014, 269797		86
75	Nutritional composition of food fishes and their importance in providing food and nutritional security. <i>Food Chemistry</i> , <b>2019</b> , 293, 561-570	8.5	76
74	Antioxidant defense of betaine against isoprenaline-induced myocardial infarction in rats. <i>Molecular Biology Reports</i> , <b>2010</b> , 37, 1319-27	2.8	75
73	Effect of chitosan supplementation on antitubercular drugs-induced hepatotoxicity in rats. <i>Toxicology</i> , <b>2006</b> , 219, 53-9	4.4	69
72	Hepatoprotective activity of chitosan against isoniazid and rifampicin-induced toxicity in experimental rats. <i>European Journal of Pharmacology</i> , <b>2007</b> , 572, 69-73	5.3	58
71	Cardioprotective effects of Picrorrhiza kurroa against isoproterenol-induced myocardial stress in rats. <i>Phytotherapy Research</i> , <b>2001</b> , 15, 402-5	3.2	56
70	Cardioprotective effect of squalene on lipid profile in isoprenaline-induced myocardial infarction in rats. <i>Journal of Medicinal Food</i> , <b>2006</b> , 9, 531-6	2.8	47
69	Evaluation of chitosan as a wall material for microencapsulation of squalene by spray drying: Characterization and oxidative stability studies. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 1986-1995	7.9	45
68	Vanillic acid and coumaric acid grafted chitosan derivatives: improved grafting ratio and potential application in functional food. <i>Journal of Food Science and Technology</i> , <b>2015</b> , 52, 7153-7162	3.3	44
67	Biochemical profile of oyster <i>Crassostrea madrasensis</i> and its nutritional attributes. <i>Egyptian Journal of Aquatic Research</i> , <b>2014</b> , 40, 35-41	3.1	43
66	Changes in tissue defence system in white spot syndrome virus (WSSV) infected <i>Penaeus monodon</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2007</b> , 145, 315-20	3.2	43
65	DHA and EPA Content and Fatty Acid Profile of 39 Food Fishes from India. <i>BioMed Research International</i> , <b>2016</b> , 2016, 4027437	3	43
64	Protective effect of <i>Hemidesmus indicus</i> against rifampicin and isoniazid-induced hepatotoxicity in rats. <i>Phytotherapy Research</i> , <b>2000</b> , 14, 55-9	3.2	41
63	Protective effect of taurine on myocardial antioxidant status in isoprenaline-induced myocardial infarction in rats. <i>Journal of Pharmacy and Pharmacology</i> , <b>2005</b> , 57, 1313-7	4.8	39
62	Anti-ulcerogenic effect of chitin and chitosan on mucosal antioxidant defence system in HCl-ethanol-induced ulcer in rats. <i>Journal of Pharmacy and Pharmacology</i> , <b>2004</b> , 56, 265-9	4.8	38

61	Influence of pH on the solubility and conformational characteristics of muscle proteins from mullet ( <i>Mugil cephalus</i> ). <i>Process Biochemistry</i> , <b>2007</b> , 42, 1056-1062	4.8	36
60	Protective effect of n-3 polyunsaturated fatty acids concentrate on isoproterenol-induced myocardial infarction in rats. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2007</b> , 76, 153-8	2.8	35
59	Studies on the protective effects of betaine against oxidative damage during experimentally induced restraint stress in Wistar albino rats. <i>Cell Stress and Chaperones</i> , <b>2011</b> , 16, 641-52	4	33
58	Antiaging effect of dietary chitosan supplementation on glutathione-dependent antioxidant system in young and aged rats. <i>Cell Stress and Chaperones</i> , <b>2013</b> , 18, 121-5	4	32
57	Micronutrient Composition of 35 Food Fishes from India and Their Significance in Human Nutrition. <i>Biological Trace Element Research</i> , <b>2016</b> , 174, 448-458	4.5	31
56	Synthesis and biochemical characterization of silver nanoparticles grafted chitosan (Chi-Ag-NPs): in vitro studies on antioxidant and antibacterial applications. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	29
55	Evaluation of <i>Azadirachta indica</i> leaf fractions for in vitro antioxidant potential and protective effects against H <sub>2</sub> O <sub>2</sub> -induced oxidative damage to pBR322 DNA and red blood cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 6990-6	5.7	28
54	Chemoprevention of rat mammary carcinogenesis by <i>Azadirachta indica</i> leaf fractions: modulation of hormone status, xenobiotic-metabolizing enzymes, oxidative stress, cell proliferation and apoptosis. <i>Food and Chemical Toxicology</i> , <b>2009</b> , 47, 1852-63	4.7	28
53	Dietary chitosan supplementation attenuates isoprenaline-induced oxidative stress in rat myocardium. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 783-7	7.9	25
52	Protective effect of betaine on changes in the levels of lysosomal enzyme activities in heart tissue in isoprenaline-induced myocardial infarction in Wistar rats. <i>Cell Stress and Chaperones</i> , <b>2009</b> , 14, 661-7	4	25
51	Biochemical Studies on the Protective Effect of Betaine on Mitochondrial Function in Experimentally Induced Myocardial Infarction in Rats. <i>Journal of Health Science</i> , <b>2007</b> , 53, 671-681		24
50	Biochemical studies on the cardioprotective effect of glutamine on tissue antioxidant defense system in isoprenaline-induced myocardial infarction in rats. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2007</b> , 40, 49-55	3.1	24
49	Protective effects of <i>Picrorrhiza kurroa</i> against HCl/ethanol-induced ulceration in rats. <i>Phytotherapy</i> , <b>1999</b> , 70, 498-501	3.2	24
48	Sequence Determination of an Antioxidant Peptide Obtained by Enzymatic Hydrolysis of Oyster <i>Crassostrea madrasensis</i> (Preston). <i>International Journal of Peptide Research and Therapeutics</i> , <b>2016</b> , 22, 421-433	2.1	23
47	Development of thiamine and pyridoxine loaded ferulic acid-grafted chitosan microspheres for dietary supplementation. <i>Journal of Food Science and Technology</i> , <b>2016</b> , 53, 551-560	3.3	22
46	Chitosan - Whey protein as efficient delivery system for squalene: Characterization and functional food application. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 135, 855-863	7.9	21
45	Physicochemical characterization of muscle proteins from different regions of mackerel ( <i>Rastrelliger kanagurta</i> ). <i>Food Chemistry</i> , <b>2008</b> , 106, 451-457	8.5	20
44	Protective effect of dietary squalene supplementation on mitochondrial function in liver of aged rats. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2007</b> , 76, 349-55	2.8	20

43	Investigation of the chemopreventive potential of neem leaf subfractions in the hamster buccal pouch model and phytochemical characterization. <i>European Journal of Medicinal Chemistry</i> , <b>2012</b> , 56, 271-81	6.8	15
42	Protective effect of glucosamine against ibuprofen-induced peptic ulcer in rats. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , <b>2007</b> , 22, 949-53	4	14
41	Antioxidant, functional properties and amino acid composition of pepsin-derived protein hydrolysates from whole tilapia waste as influenced by pre-processing ice storage. <i>Journal of Food Science and Technology</i> , <b>2017</b> , 54, 4257-4267	3.3	13
40	Effect of Premna Tomentosa on Rat Liver Antioxidant Defense System in Acetaminophen-intoxicated Rats.. <i>Biomedical Research</i> , <b>1998</b> , 19, 339-342	1.5	13
39	Preventive Effects of Picrorhiza kurroa on D-Galactosamine-Induced Hepatitis in Rats.. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>1998</b> , 25, 87-95	3.1	13
38	Screening Natural Content of Water-Soluble B Vitamins in Fish: Enzymatic Extraction, HILIC Separation, and Tandem Mass Spectrometric Determination. <i>Journal of AOAC INTERNATIONAL</i> , <b>2017</b> , 100, 579-585	1.7	12
37	Supplementation of squalene attenuates experimentally induced myocardial infarction in rats. <i>Food Chemistry</i> , <b>2007</b> , 105, 1390-1395	8.5	12
36	Protective Effect of Squalene against Isoproterenol-Induced Myocardial Infarction in Rats. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2005</b> , 37, 55-60	3.1	12
35	HEAT PENETRATION CHARACTERISTICS AND QUALITY CHANGES OF INDIAN MACKEREL (RASTRELLIGER KANAGURTA) CANNED IN BRINE AT DIFFERENT RETORT TEMPERATURES. <i>Journal of Food Process Engineering</i> , <b>2009</b> , 32, 893-915	2.4	11
34	Dietary supplementation of thiamine and pyridoxine-loaded vanillic acid-grafted chitosan microspheres enhances growth performance, metabolic and immune responses in experimental rats. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 1874-1881	7.9	10
33	Antioxidant Potential of Water Hyacinth (Eichornia crassipes): In Vitro Antioxidant Activity and Phenolic Composition. <i>Journal of Aquatic Food Product Technology</i> , <b>2013</b> , 22, 11-26	1.6	10
32	Protective Effect of Squalene on Endogenous Antioxidant Vitamins in Experimentally Induced Myocardial Infarction in Rats. <i>Asian Journal of Biochemistry</i> , <b>2009</b> , 4, 133-139	0.1	9
31	Rheological, Physico-chemical, and Surface-Active Properties of Gelatin Extracted from Bigeye Tuna (Thunnus obesus) Skin Waste. <i>Journal of Aquatic Food Product Technology</i> , <b>2020</b> , 29, 428-444	1.6	9
30	Dietary Chitosan Supplementation Ameliorates Isoproterenol-Induced Aberrations in Membrane-Bound ATPases and Mineral Status of Rat Myocardium. <i>Biological Trace Element Research</i> , <b>2015</b> , 167, 103-9	4.5	8
29	Hepatoprotective effect of Picrorrhiza kurroa on tissue defence system in d-galactosamine-induced hepatitis in rats. <i>Phytotherapy Research</i> , <b>1999</b> , 70, 54-57	3.2	6
28	Biochemical studies on the hepatoprotective effect of Picrorrhiza kurroa on changes in liver mitochondrial respiration and oxidative phosphorylation in d-galactosamine-induced hepatitis in rats. <i>Phytotherapy Research</i> , <b>1999</b> , 70, 548-551	3.2	6
27	A step to shell biorefinery Extraction of astaxanthin-rich oil, protein, chitin, and chitosan from shrimp processing waste. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	6
26	Biomodulation of poly (vinyl alcohol)/starch polymers into composite-based hybridised films: physico-chemical, structural and biocompatibility characterization. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	6

25	Protective effect of betaine on changes in the levels of membrane-bound ATPase activity and mineral status in experimentally induced myocardial infarction in Wistar rats. <i>Biological Trace Element Research</i> , <b>2009</b> , 131, 278-90	4.5	5
24	Biochemical Studies on the Antiulcer Effect of Glucosamine on Antioxidant Defense Status in Experimentally Induced Peptic Ulcer in Rats. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2005</b> , 37, 61-66	3.1	5
23	Nanoencapsulation in low-molecular-weight chitosan improves in vivo antioxidant potential of black carrot anthocyanin. <i>Journal of the Science of Food and Agriculture</i> , <b>2021</b> , 101, 5264-5271	4.3	5
22	Screening of effective solvents for obtaining antioxidant-rich seaweed extracts using principal component analysis. <i>Journal of Food Processing and Preservation</i> , <b>2020</b> , 44, e14716	2.1	4
21	Protective effect of betaine on protein, glycoproteins and amino acids in isoprenaline-induced myocardial infarction in albino rats. <i>Biomedicine and Preventive Nutrition</i> , <b>2014</b> , 4, 403-409		4
20	Protective Effect of Squalene on Certain Lysosomal Hydrolases and Free Amino Acids in Isoprenaline-Induced Myocardial Infarction in Rats. <i>International Journal of Pharmacology</i> , <b>2010</b> , 6, 97-103	9.7	4
19	Anti-ulcerogenic potential of anthocyanin-loaded chitosan nanoparticles against alcohol-HCl induced gastric ulcer in rats. <i>Natural Product Research</i> , <b>2020</b> , 1-5	2.3	4
18	Biocompatibility and histopathological evaluation of chitosan nanoparticles grafted fish gelatin bio-nanocomposite membranes in rats. <i>Iranian Polymer Journal (English Edition)</i> , <b>2021</b> , 30, 953-964	2.3	4
17	Dietary supplementation of encapsulated anthocyanin loaded-chitosan nanoparticles attenuates hyperlipidemic aberrations in male Wistar rats. <i>Carbohydrate Polymer Technologies and Applications</i> , <b>2021</b> , 2, 100051	1.7	4
16	Authentication of Two Bio-Active Fish Oils by Qualitative Lipid Profiling Using Semi-Targeted Approach: An Exploratory Study. <i>Journal of AOAC INTERNATIONAL</i> , <b>2020</b> , 103, 78-82	1.7	3
15	Comparison of Lipid Profile in Three Species of Myctophids from the South West Coast of Kerala, India. <i>The National Academy of Sciences, India</i> , <b>2014</b> , 37, 33-37	0.6	3
14	Combined effect of zinc oxide nano particle incorporated chitosan for better antimicrobial activity towards wound healing. <i>Journal of Environmental Biology</i> , <b>2019</b> , 40, 691-697	1.6	3
13	Chitosan: Whey Protein Isolate: An Effective Emulsifier for Stabilization of Squalene Based Emulsions. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 3477-3483	3.2	3
12	Evaluation of pepsin derived tilapia fish waste protein hydrolysate as a feed ingredient for silver pompano ( <i>Trachinotus blochii</i> ) fingerlings: Influence on growth, metabolism, immune and disease resistance. <i>Animal Feed Science and Technology</i> , <b>2021</b> , 272, 114748	3	3
11	Medium optimization and characterization of cell culture system from <i>Penaeus vannamei</i> for adaptation of white spot syndrome virus (WSSV). <i>Journal of Virological Methods</i> , <b>2019</b> , 270, 38-45	2.6	2
10	ANALGESIC AND ANTI-INFLAMMATORY ACTIVITIES OF LIVER OILS OF FOUR SHARK SPECIES FROM INDIAN EEZ. <i>Journal of Food Lipids</i> , <b>2008</b> , 15, 470-487		2
9	Supplementation of Betaine Attenuates HCl-Ethanol Induced Gastric Ulcer in Rats. <i>International Journal of Biological Chemistry</i> , <b>2010</b> , 4, 79-89	3	2
8	Tuna Red Meat as a Novel Ingredient in Pet Food for Dogs. <i>Journal of Aquatic Food Product Technology</i> , <b>2020</b> , 29, 750-759	1.6	2

7	In vivo anti-lipidemic and antioxidant potential of collagen peptides obtained from great hammerhead shark skin waste.. <i>Journal of Food Science and Technology</i> , <b>2022</b> , 59, 1140-1151	3.3	2
6	Nano-encapsulation of curcumin in fish collagen grafted succinyl chitosan hydrogel accelerates wound healing process in experimental rats. <i>Food Hydrocolloids for Health</i> , <b>2022</b> , 2, 100061		2
5	Biochemical Studies on the Protective Effects of Picrorhiza kurroa in Experimentally Induced Hepatitis in Rats.. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2000</b> , 29, 9-17	3.1	1
4	Antioxidant defense of fish collagen peptides attenuates oxidative stress in gastric mucosa of experimentally ulcer-induced rats. <i>Cell Stress and Chaperones</i> , <b>2021</b> ,	4	1
3	Antioxidant and hepatoprotective property of squalene for counteracting the oxidative damage induced by methotrex- ate in experimental rats. <i>Acta Biologica Szegediensis</i> , <b>2021</b> , 64, 199-206	0.7	1
2	Synthesis of Biomaterial-Based Hydrogels Reinforced with Cellulose Nanocrystals for Biomedical Applications. <i>International Journal of Polymer Science</i> , <b>2021</b> , 2021, 1-14	2.4	1
1	Sardine oil loaded vanillic acid grafted chitosan microparticles improves the in vivo antioxidant, haematological and lipid profile. <i>Journal of Food Science and Technology</i> ,1	3.3	