

Tian-Tian Zhang

List of Publications by Year in descending order

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98
papers

2,868
citations

159358

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h-index

205818

48
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98
all docs

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docs citations

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times ranked

3046
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term supplementation of EPA-enriched ethanolamine plasmalogen increases the level of DHA in the brain and liver of n-3 PUFA deficient mice in early life after weaning. <i>Food and Function</i> , 2022, 13, 1906-1920.	2.1	5
2	Fucoxanthin-loaded nanoparticles composed of gliadin and chondroitin sulfate: Synthesis, characterization and stability. <i>Food Chemistry</i> , 2022, 379, 132163.	4.2	27
3	Preparation and Characterization of Astaxanthin-loaded Liposomes Stabilized by Sea Cucumber Sulfated Sterols Instead of Cholesterol. <i>Journal of Oleo Science</i> , 2022, 71, 401-410.	0.6	12
4	EPA-Enriched Phospholipids Alleviate Renal Interstitial Fibrosis in Spontaneously Hypertensive Rats by Regulating TGF- β 2 Signaling Pathways. <i>Marine Drugs</i> , 2022, 20, 152.	2.2	6
5	Targeted Lipidomics Reveal the Effects of Different Phospholipids on the Phospholipid Profiles of Hepatic Mitochondria and Endoplasmic Reticulum in High-Fat/High-Fructose-Diet-Induced Nonalcoholic Fatty Liver Disease Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 3529-3540.	2.4	8
6	Absorption, Pharmacokinetics, Tissue Distribution, and Excretion Profiles of Sea Cucumber-Derived Sulfated Sterols in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 480-487.	2.4	5
7	Docosahexaenoic acid-acylated curcumin diester alleviates cisplatin-induced acute kidney injury by regulating the effect of gut microbiota on the lipopolysaccharide- and trimethylamine- <i>N</i> -oxide-mediated PI3K/Akt/NF- κ B signaling pathway in mice. <i>Food and Function</i> , 2022, 13, 6103-6117.	2.1	12
8	Taurine Alleviates Trimethylamine <i>N</i> -Oxide-Induced Atherosclerosis by Regulating Bile Acid Metabolism in ApoE ^{-/-} Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5738-5747.	2.4	8
9	Effects of Dietary Supplementation with EPA-enriched Phosphatidylcholine and Phosphatidylethanolamine on Glycerophospholipid Profile in Cerebral Cortex of SAMP8 Mice fed with High-fat Diet. <i>Journal of Oleo Science</i> , 2021, 70, 275-287.	0.6	5
10	Trimethylamine <i>N</i> -Oxide Generation from Choline-Containing Precursors Is Closely Associated with Their Molecular Structure. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2933-2935.	2.4	2
11	Effects of dietary n-3 PUFA levels in early life on susceptibility to high-fat-diet-induced metabolic syndrome in adult mice. <i>Journal of Nutritional Biochemistry</i> , 2021, 89, 108578.	1.9	9
12	Dietary Supplementation with Sea Cucumber Saponins and Exercise Can Significantly Suppress Adipose Accumulation in Mice Fed with High-Fat Diet. <i>Journal of Ocean University of China</i> , 2021, 20, 629-640.	0.6	4
13	Dietary n-3 PUFA Deficiency Increases Vulnerability to Scopolamine-Induced Cognitive Impairment in Male C57BL/6 Mice. <i>Journal of Nutrition</i> , 2021, 151, 2206-2214.	1.3	9
14	The Different Protective Effects of Phospholipids Against Obesity-Induced Renal Injury Mainly Associate with Fatty Acid Composition. <i>European Journal of Lipid Science and Technology</i> , 2021, 123, 2100011.	1.0	3
15	The enrichment of eggs with docosahexaenoic acid and eicosapentaenoic acid through supplementation of the laying hen diet. <i>Food Chemistry</i> , 2021, 346, 128958.	4.2	7
16	Orally Administered DHA-Enriched Phospholipids and DHA-Enriched Triglyceride Relieve Oxidative Stress, Improve Intestinal Barrier, Modulate Inflammatory Cytokine and Gut Microbiota, and Meliorate Inflammatory Responses in the Brain in Dextran Sodium Sulfate Induced Colitis in Mice. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2000986.	1.5	22
17	Comparative evaluation of phosphatidylcholine and phosphatidylserine with different fatty acids on nephrotoxicity in vancomycin-induced mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 1873-1884.	0.6	6
18	Comparison of the Digestion and Absorption Characteristics of Docosahexaenoic Acid-Acylated Astaxanthin Monoester and Diester in Mice. <i>Journal of Ocean University of China</i> , 2021, 20, 973-984.	0.6	7

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19	Dietary EPA-Enriched Phospholipids Alleviate Chronic Stress and LPS-Induced Depression- and Anxiety-Like Behavior by Regulating Immunity and Neuroinflammation. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2100009.	1.5	24
20	A Comparative Study About the Neuroprotective Effects of EPA-Enriched Phosphoethanolamine Plasmalogen and Phosphatidylethanolamine Against Oxidative Damage in Primary Hippocampal Neurons. <i>Journal of Ocean University of China</i> , 2021, 20, 1207-1214.	0.6	3
21	Docosahexaenoic Acid-Acylated Astaxanthin Esters Exhibit Superior Renal Protective Effect to Recombination of Astaxanthin with DHA via Alleviating Oxidative Stress Coupled with Apoptosis in Vancomycin-Treated Mice with Nephrotoxicity. <i>Marine Drugs</i> , 2021, 19, 499.	2.2	1
22	n-3 PUFA-Deficiency in Early Life Exhibits Aggravated MPTP-Induced Neurotoxicity in Old Age while Supplementation with DHA/EPA-Enriched Phospholipids Exerts a Neuroprotective Effect. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2100339.	1.5	4
23	Sterol sulfate alleviates atherosclerosis via mediating hepatic cholesterol metabolism in ApoE ^{−/−} mice. <i>Food and Function</i> , 2021, 12, 4887-4896.	2.1	8
24	Short-term supplementation of DHA-enriched phospholipids attenuates the nephrotoxicity of cisplatin without compromising its antitumor activity in mice. <i>Food and Function</i> , 2021, 12, 9391-9404.	2.1	3
25	Dietary Supplementation with Exogenous Sea-Cucumber-Derived Ceramides and Glucosylceramides Alleviates Insulin Resistance in High-Fructose-Diet-Fed Rats by Upregulating the IRS/PI3K/Akt Signaling Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9178-9187.	2.4	21
26	Eicosapentaenoic acid-enriched phospholipids suppressed lipid accumulation by specific inhibition of lipid droplet-associated protein FSP27 in mice. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 2244-2251.	1.7	12
27	An analysis tool of the rocket-based combined cycle engine and its application in the two-stage-to-orbit mission. <i>Energy</i> , 2020, 193, 116709.	4.5	24
28	Characterization and Absorption Kinetics of a Novel Multifunctional Nanoliposome Stabilized by Sea Cucumber Saponins Instead of Cholesterol. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 642-651.	2.4	18
29	Sea cucumbers-derived sterol sulfate alleviates insulin resistance and inflammation in high-fat-high-fructose diet-induced obese mice. <i>Pharmacological Research</i> , 2020, 160, 105191.	3.1	23
30	Sea Cucumber Sterol Alleviates the Lipid Accumulation in High-Fat-Fructose Diet Fed Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 9707-9717.	2.4	13
31	Docosahexaenoic acid-acylated astaxanthin ester exhibits superior performance over non-esterified astaxanthin in preventing behavioral deficits coupled with apoptosis in MPTP-induced mice with Parkinson's disease. <i>Food and Function</i> , 2020, 11, 8038-8050.	2.1	32
32	The Protective Effect of Dietary EPA-Enriched Ethanolamine Plasmalogens against Hyperlipidemia in Aged Mice. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 2000179.	1.0	6
33	Recovery of brain DHA-containing phosphatidylserine and ethanolamine plasmalogen after dietary DHA-enriched phosphatidylcholine and phosphatidylserine in SAMP8 mice fed with high-fat diet. <i>Lipids in Health and Disease</i> , 2020, 19, 104.	1.2	11
34	Dietary Trimethylamine N-Oxide Exacerbated Atherosclerosis under a Low-Fat Rather than High-Fat Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6789-6791.	2.4	6
35	Comparative study on the digestion and absorption characteristics of n-3 LCPUFA-enriched phospholipids in the form of liposomes and emulsions. <i>Food Research International</i> , 2020, 137, 109428.	2.9	11
36	Effects of dietary choline, betaine, and L-carnitine on the generation of trimethylamine N-oxide in healthy mice. <i>Journal of Food Science</i> , 2020, 85, 2207-2215.	1.5	19

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37	Relationship between structure and efficacy of sea cucumber saponins echinoside A and its derivatives on hemolytic activity and prevention of nonalcoholic fatty liver disease. <i>Journal of Food Science</i> , 2020, 85, 2198-2206.	1.5	4
38	Constraint-based parameterization using FFD and multi-objective design optimization of a hypersonic vehicle. <i>Aerospace Science and Technology</i> , 2020, 100, 105788.	2.5	36
39	The interaction between dietary marine components and intestinal flora. <i>Marine Life Science and Technology</i> , 2020, 2, 161-171.	1.8	12
40	A numerical study on choosing the best configuration of the blade for vertical axis wind turbines. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 201, 104162.	1.7	25
41	Eicosapentaenoic Acid-Enriched Phosphoethanolamine Plasmalogens Alleviated Atherosclerosis by Remodeling Gut Microbiota to Regulate Bile Acid Metabolism in LDLR ^{-/-} Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5339-5348.	2.4	26
42	Cerebrosides from Sea Cucumber Improved Aβ ₁₋₄₂ -Induced Cognitive Deficiency in a Rat Model of Alzheimer's Disease. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800707.	1.5	36
43	Detailed Parametric Investigation and Optimization of a Composite Wing with High Aspect Ratio. <i>International Journal of Aerospace Engineering</i> , 2019, 2019, 1-27.	0.5	5
44	Performance comparison between waverider and wide-speed-range gliding vehicle based on CFD approaches. <i>Science China Technological Sciences</i> , 2019, 62, 1861-1870.	2.0	5
45	Structural design and analysis of a composite wing with high aspect ratio. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 781-793.	1.3	9
46	Functional Hydrogels and Their Application in Drug Delivery, Biosensors, and Tissue Engineering. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-14.	1.2	46
47	Digestion, Absorption, and Metabolism Characteristics of EPA-Enriched Phosphoethanolamine Plasmalogens Based on Gastrointestinal Functions in Healthy Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12786-12795.	2.4	11
48	Health benefits of dietary marine DHA/EPA-enriched glycerophospholipids. <i>Progress in Lipid Research</i> , 2019, 75, 100997.	5.3	195
49	Low speed aerodynamic performance analysis of vortex lift waveriders with a wide-speed range. <i>Acta Astronautica</i> , 2019, 161, 209-221.	1.7	17
50	Winglet design for vertical axis wind turbines based on a design of experiment and CFD approach. <i>Energy Conversion and Management</i> , 2019, 195, 712-726.	4.4	78
51	Synergistic effect of sea cucumber saponins and EPA-enriched phospholipids on insulin resistance in high-fat diet-induced obese mice. <i>Food and Function</i> , 2019, 10, 3955-3964.	2.1	18
52	The overall layout of rocket-based combined-cycle engines: a review. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 163-183.	1.3	28
53	Comparative Analyses of DHA-Phosphatidylcholine Forage and Liposomes on Alzheimer's Disease in SAMP8 Mice. <i>European Journal of Lipid Science and Technology</i> , 2019, 121, 1800524.	1.0	11
54	DHA-PC protects kidneys against cisplatin-induced toxicity and its underlying mechanisms in mice. <i>Food and Function</i> , 2019, 10, 1571-1581.	2.1	18

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55	Eicosapentaenoic Acid-Enriched Phosphatidylcholine Mitigated A β 1-42-Induced Neurotoxicity via Autophagy-Inflammasome Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13767-13774.	2.4	27
56	Advances of proteomics technologies for multidrug-resistant mechanisms. <i>Future Medicinal Chemistry</i> , 2019, 11, 2573-2593.	1.1	8
57	Parametric modeling and aerodynamic optimization of EXPERT configuration at hypersonic speeds. <i>Aerospace Science and Technology</i> , 2019, 84, 641-649.	2.5	31
58	Design exploration of combinational spike and opposing jet concept in hypersonic flows based on CFD calculation and surrogate model. <i>Acta Astronautica</i> , 2019, 155, 287-301.	1.7	46
59	Effects of Astaxanthin and Docosahexaenoic-Acid-Acylated Astaxanthin on Alzheimer's Disease in APP/PS1 Double-Transgenic Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4948-4957.	2.4	89
60	DHA-Enriched Phosphatidylcholine and DHA-Enriched Phosphatidylserine Improve Age-Related Lipid Metabolic Disorder through Different Metabolism in the Senescence-Accelerated Mouse. <i>European Journal of Lipid Science and Technology</i> , 2018, 120, 1700490.	1.0	24
61	Comparative Study of Different Polar Groups of EPA-Enriched Phospholipids on Ameliorating Memory Loss and Cognitive Deficiency in Aged SAMP8 Mice. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1700637.	1.5	30
62	A review of parametric approaches specific to aerodynamic design process. <i>Acta Astronautica</i> , 2018, 145, 319-331.	1.7	42
63	Comparative Analysis of EPA/DHA-PL Forage and Liposomes in Orotic Acid-Induced Nonalcoholic Fatty Liver Rats and Their Related Mechanisms. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1408-1418.	2.4	19
64	The Protective Effect of Antarctic Krill Oil on Cognitive Function by Inhibiting Oxidative Stress in the Brain of Senescence-Accelerated Prone Mouse Strain 8 (SAMP8) Mice. <i>Journal of Food Science</i> , 2018, 83, 543-551.	1.5	28
65	Protective Effects of DHA-PC against Vancomycin-Induced Nephrotoxicity through the Inhibition of Oxidative Stress and Apoptosis in BALB/c Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 475-484.	2.4	34
66	Polyphenols from <i>Ilex latifolia</i> Thunb. (a Chinese bitter tea) exert anti-atherosclerotic activity through suppressing NF- κ B activation and phosphorylation of ERK1/2 in macrophages. <i>MedChemComm</i> , 2018, 9, 254-263.	3.5	6
67	Saponin from sea cucumber exhibited more significant effects than ginsenoside on ameliorating high fat diet-induced obesity in C57BL/6 mice. <i>MedChemComm</i> , 2018, 9, 725-734.	3.5	24
68	Enhancement of Anti-Inflammatory Properties of Nobiletin in Macrophages by a Nano-Emulsion Preparation. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 91-98.	2.4	57
69	Trimethylamine-N-oxide (TMAO)-induced atherosclerosis is associated with bile acid metabolism. <i>Lipids in Health and Disease</i> , 2018, 17, 286.	1.2	148
70	Identification of Peptide Biomarkers for Discrimination of Shrimp Species through SWATH-MS-Based Proteomics and Chemometrics. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10567-10574.	2.4	32
71	Variable Mach number design approach for a parallel waverider with a wide-speed range based on the osculating cone theory. <i>Acta Astronautica</i> , 2018, 147, 163-174.	1.7	24
72	Structural characteristics and bioactive properties of a novel polysaccharide from <i>Flammulina velutipes</i> . <i>Carbohydrate Polymers</i> , 2018, 197, 147-156.	5.1	85

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73	Mechanisms of DHA-enriched phospholipids in improving cognitive deficits in aged SAMP8 mice with high-fat diet. <i>Journal of Nutritional Biochemistry</i> , 2018, 59, 64-75.	1.9	41
74	Saponins from Sea Cucumber and Their Biological Activities. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 7222-7237.	2.4	72
75	Design and high speed aerodynamic performance analysis of vortex lift waverider with a wide-speed range. <i>Acta Astronautica</i> , 2018, 151, 848-863.	1.7	33
76	Synergistic effect of eicosapentaenoic acid-enriched phospholipids and sea cucumber saponin on orotic acid-induced non-alcoholic fatty liver disease in rats. <i>Royal Society Open Science</i> , 2018, 5, 172182.	1.1	12
77	The Protective Activities of Dietary Sea Cucumber Cerebrosides against Atherosclerosis through Regulating Inflammation and Cholesterol Metabolism in Male Mice. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800315.	1.5	16
78	A design approach of wide-speed-range vehicles based on the cone-derived theory. <i>Aerospace Science and Technology</i> , 2017, 71, 42-51.	2.5	48
79	Extraction of antioxidant and antiproliferative ingredients from fruits of <i>Rubus chingii</i> Hu by active tracking guidance. <i>MedChemComm</i> , 2017, 8, 1673-1680.	3.5	22
80	Fish oil affects the metabolic process of trimethylamine N-oxide precursor through trimethylamine production and flavin-containing monooxygenase activity in male C57BL/6 mice. <i>RSC Advances</i> , 2017, 7, 56655-56661.	1.7	15
81	Comparative analyses of DHA-Phosphatidylcholine and recombination of DHA-Triglyceride with Egg-Phosphatidylcholine or Glycerolphosphorylcholine on DHA repletion in n-3 deficient mice. <i>Lipids in Health and Disease</i> , 2017, 16, 234.	1.2	14
82	Drag and heat flux reduction mechanism of blunted cone with aerodisks. <i>Acta Astronautica</i> , 2017, 138, 168-175.	1.7	70
83	Integration of Novel Materials and Advanced Genomic Technologies into New Vaccine Design. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2286-2301.	1.0	6
84	A study of airfoil parameterization, modeling, and optimization based on the computational fluid dynamics method. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 632-645.	1.3	39
85	Vibrational spectroscopic approaches for the quality evaluation and authentication of virgin olive oil. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 763-790.	3.4	33
86	Neuroprotective and Anti-Inflammatory Effects of Diphenylheptanes from the Fruits of <i>Amomum tsaoko</i> , a Chinese Spice. <i>Plant Foods for Human Nutrition</i> , 2016, 71, 450-453.	1.4	23
87	Parameterization and optimization of hypersonic-gliding vehicle configurations during conceptual design. <i>Aerospace Science and Technology</i> , 2016, 58, 225-234.	2.5	62
88	Anti-inflammatory activities of essential oil isolated from the calyx of <i>Hibiscus sabdariffa</i> L.. <i>Food and Function</i> , 2016, 7, 4451-4459.	2.1	46
89	Numerical investigation and optimization on mixing enhancement factors in supersonic jet-to-crossflow flow fields. <i>Acta Astronautica</i> , 2016, 127, 321-325.	1.7	16
90	Strategies for transporting nanoparticles across the blood-brain barrier. <i>Biomaterials Science</i> , 2016, 4, 219-229.	2.6	229

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91	Bioactive comparison of main components from unripe fruits of <i>Rubus chingii</i> Hu and identification of the effective component. <i>Food and Function</i> , 2015, 6, 2205-2214.	2.1	25
92	Analyses on Essential Oil Components from the Unripe Fruits of <i>Rubus chingii</i> Hu by Different Methods and Their Comparative Cytotoxic and Anti-complement Activities. <i>Food Analytical Methods</i> , 2015, 8, 937-944.	1.3	19
93	Effects of thoningianin A in natural foods on apoptosis and cell cycle arrest of HepG-2 human hepatocellular carcinoma cells. <i>Food and Function</i> , 2015, 6, 2588-2597.	2.1	34
94	Bioactivities and extraction optimization of crude polysaccharides from the fruits and leaves of <i>Rubus chingii</i> Hu. <i>Carbohydrate Polymers</i> , 2015, 130, 307-315.	5.1	84
95	Numerical investigation of the nonreacting and reacting flow fields in a transverse gaseous injection channel with different species. <i>Acta Astronautica</i> , 2014, 105, 17-23.	1.7	34
96	Bioactivity evaluation of ingredients identified from the fruits of <i>Amomum tsaoko</i> Crevost et Lemaire, a Chinese spice. <i>Food and Function</i> , 2014, 5, 1747.	2.1	41
97	Hepatoprotective function of <i>Penthorum chinense</i> Pursh. <i>Food and Function</i> , 2013, 4, 1581.	2.1	44
98	Active ingredients of traditional Chinese medicine in the treatment of diabetes and diabetic complications. <i>Expert Opinion on Investigational Drugs</i> , 2012, 21, 1625-1642.	1.9	60