Tian-Tian Zhang

List of Publications by Year
in descending order

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98 papers	2,868 citations	159358 30 h-index	205818 48 g-index
98 all docs	98 docs citations	98 times ranked	3046 citing authors

#	Article	IF	Citations
1	Strategies for transporting nanoparticles across the bloodâ€“brain barrier. Biomaterials Science, 2016, 4, 219-229.	2.6	229
2	Health benefits of dietary marine DHA/EPA-enriched glycerophospholipids. Progress in Lipid Research, 2019, 75, 100997.	5.3	195
3	Trimethylamine-N-oxide (TMAO)-induced atherosclerosis is associated with bile acid metabolism. Lipids in Health and Disease, 2018, 17, 286.	1.2	148
4	Effects of Astaxanthin and Docosahexaenoic-Acid-Acylated Astaxanthin on Alzheimerâ€™s Disease in APP/PS1 Double-Transgenic Mice. Journal of Agricultural and Food Chemistry, 2018, 66, 4948-4957.	2.4	89
5	Structural characteristics and bioactive properties of a novel polysaccharide from Flammulina velutipes. Carbohydrate Polymers, 2018, 197, 147-156.	5.1	85
6	Bioactivities and extraction optimization of crude polysaccharides from the fruits and leaves of Rubus chingii Hu. Carbohydrate Polymers, 2015, 130, 307-315.	5.1	84
7	Winglet design for vertical axis wind turbines based on a design of experiment and CFD approach. Energy Conversion and Management, 2019, 195, 712-726.	4.4	78
8	Saponins from Sea Cucumber and Their Biological Activities. Journal of Agricultural and Food Chemistry, 2018, 66, 7222-7237.	2.4	72
9	Drag and heat flux reduction mechanism of blunted cone with aerodisks. Acta Astronautica, 2017, 138, 168-175.	1.7	70
10	Parameterization and optimization of hypersonic-gliding vehicle configurations during conceptual design. Aerospace Science and Technology, 2016, 58, 225-234.	2.5	62
11	Active ingredients of traditional Chinese medicine in the treatment of diabetes and diabetic complications. Expert Opinion on Investigational Drugs, 2012, 21, 1625-1642.	1.9	60
12	Enhancement of Anti-Inflammatory Properties of Nobiletin in Macrophages by a Nano-Emulsion Preparation. Journal of Agricultural and Food Chemistry, 2018, 66, 91-98.	2.4	57
13	A design approach of wide-speed-range vehicles based on the cone-derived theory. Aerospace Science and Technology, 2017, 71, 42-51.	2.5	48
14	Anti-inflammatory activities of essential oil isolated from the calyx of Hibiscus sabdariffa L.. Food and Function, 2016, 7, 4451-4459.	2.1	46
15	Functional Hydrogels and Their Application in Drug Delivery, Biosensors, and Tissue Engineering. International Journal of Polymer Science, 2019, 2019, 1-14.	1.2	46
16	Design exploration of combinational spike and opposing jet concept in hypersonic flows based on CFD calculation and surrogate model. Acta Astronautica, 2019, 155, 287-301.	1.7	46
17	Hepatoprotective function of Penthorum chinense Pursh. Food and Function, 2013, 4, 1581.	2.1	44
18	A review of parametric approaches specific to aerodynamic design process. Acta Astronautica, 2018, 145, 319-331.	1.7	42

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19	Bioactivity evaluation of ingredients identified from the fruits of Amomum tsaoko Crevost et Lemaire, a Chinese spice. Food and Function, 2014, 5, 1747.	2.1	41
20	Mechanisms of DHA-enriched phospholipids in improving cognitive deficits in aged SAMP8 mice with high-fat diet. Journal of Nutritional Biochemistry, 2018, 59, 64-75.	1.9	41
21	A study of airfoil parameterization, modeling, and optimization based on the computational fluid dynamics method. Journal of Zhejiang University: Science A, 2016, 17, 632-645.	1.3	39
22	Cerebrosides from Sea Cucumber Improved AÎ²_{1â€“42}â€Induced Cognitive Deficiency in a Rat Model of Alzheimer's Disease. Molecular Nutrition and Food Research, 2019, 63, e1800707.	1.5	36
23	Constraint-based parameterization using FFD and multi-objective design optimization of a hypersonic vehicle. Aerospace Science and Technology, 2020, 100, 105788.	2.5	36
24	Numerical investigation of the nonreacting and reacting flow fields in a transverse gaseous injection channel with different species. Acta Astronautica, 2014, 105, 17-23.	1.7	34
25	Effects of thonningianin A in natural foods on apoptosis and cell cycle arrest of HepG-2 human hepatocellular carcinoma cells. Food and Function, 2015, 6, 2588-2597.	2.1	34
26	Protective Effects of DHA-PC against Vancomycin-Induced Nephrotoxicity through the Inhibition of Oxidative Stress and Apoptosis in BALB/c Mice. Journal of Agricultural and Food Chemistry, 2018, 66, 475-484.	2.4	34
27	Vibrational spectroscopic approaches for the quality evaluation and authentication of virgin olive oil. Applied Spectroscopy Reviews, 2016, 51, 763-790.	3.4	33
28	Design and high speed aerodynamic performance analysis of vortex lift waverider with a wide-speed range. Acta Astronautica, 2018, 151, 848-863.	1.7	33
29	Identification of Peptide Biomarkers for Discrimination of Shrimp Species through SWATH-MS-Based Proteomics and Chemometrics. Journal of Agricultural and Food Chemistry, 2018, 66, 10567-10574.	2.4	32
30	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. Food and Function, 2020, 11, 8038-8050.	2.1	32
31	Parametric modeling and aerodynamic optimization of EXPERT configuration at hypersonic speeds. Aerospace Science and Technology, 2019, 84, 641-649.	2.5	31
32	Comparative Study of Different Polar Groups of EPAâ€Enriched Phospholipids on Ameliorating Memory Loss and Cognitive Deficiency in Aged SAMP8 Mice. Molecular Nutrition and Food Research, 2018, 62, e1700637.	1.5	30
33	The Protective Effect of Antarctic Krill Oil on Cognitive Function by Inhibiting Oxidative Stress in the Brain of Senescenceâ€Accelerated Prone Mouse Strain 8 (SAMP8) Mice. Journal of Food Science, 2018, 83, 543-551.	1.5	28
34	The overall layout of rocket-based combined-cycle engines: a review. Journal of Zhejiang University: Science A, 2019, 20, 163-183.	1.3	28
35	Eicosapentaenoic Acid-Enriched Phosphatidylcholine Mitigated AÎ²1-42-Induced Neurotoxicity via Autophagy-Inflammasome Pathway. Journal of Agricultural and Food Chemistry, 2019, 67, 13767-13774.	2.4	27
36	Fucoxanthin-loaded nanoparticles composed of gliadin and chondroitin sulfate: Synthesis, characterization and stability. Food Chemistry, 2022, 379, 132163.	4.2	27

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37	Eicosapentaenoic Acid-Enriched Phosphoethanolamine Plasmalogens Alleviated Atherosclerosis by Remodeling Gut Microbiota to Regulate Bile Acid Metabolism in LDLR^{â€"/â€"} Mice. Journal of Agricultural and Food Chemistry, 2020, 68, 5339-5348.	2.4	26
38	Bioactive comparison of main components from unripe fruits of Rubus chingii Hu and identification of the effective component. Food and Function, 2015, 6, 2205-2214.	2.1	25
39	A numerical study on choosing the best configuration of the blade for vertical axis wind turbines. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 201, 104162.	1.7	25
40	DHAâ€Enriched Phosphatidylcholine and DHAâ€Enriched Phosphatidylserine Improve Ageâ€Related Lipid Metabolic Disorder through Different Metabolism in the Senescenceâ€Accelerated Mouse. European Journal of Lipid Science and Technology, 2018, 120, 1700490.	1.0	24
41	Saponin from sea cucumber exhibited more significant effects than ginsenoside on ameliorating high fat diet-induced obesity in C57BL/6 mice. MedChemComm, 2018, 9, 725-734.	3.5	24
42	Variable Mach number design approach for a parallel waverider with a wide-speed range based on the osculating cone theory. Acta Astronautica, 2018, 147, 163-174.	1.7	24
43	An analysis tool of the rocket-based combined cycle engine and its application in the two-stage-to-orbit mission. Energy, 2020, 193, 116709.	4.5	24
44	Dietary EPAâ€Enriched Phospholipids Alleviate Chronic Stress and LPSâ€Induced Depressionâ€and Anxietyâ€Like Behavior by Regulating Immunity and Neuroinflammation. Molecular Nutrition and Food Research, 2021, 65, e2100009.	1.5	24
45	Neuroprotective and Anti-Inflammatory Effects of Diphenylheptanes from the Fruits of Amomum tsaoko, a Chinese Spice. Plant Foods for Human Nutrition, 2016, 71, 450-453.	1.4	23
46	Sea cucumbers-derived sterol sulfate alleviates insulin resistance and inflammation in high-fat-high-fructose diet-induced obese mice. Pharmacological Research, 2020, 160, 105191.	3.1	23
47	Extraction of antioxidant and antiproliferative ingredients from fruits of Rubus chingii Hu by active tracking guidance. MedChemComm, 2017, 8, 1673-1680.	3.5	22
48	Orally Administered DHAâ€Enriched Phospholipids and DHAâ€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. Molecular Nutrition and Food Research, 2021, 65, e2000986.	1.5	22
49	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. Journal of Agricultural and Food Chemistry, 2021, 69, 9178-9187.	2.4	21
50	Analyses on Essential Oil Components from the Unripe Fruits of Rubus chingii Hu by Different Methods and Their Comparative Cytotoxic and Anti-complement Activities. Food Analytical Methods, 2015, 8, 937-944.	1.3	19
51	Comparative Analysis of EPA/DHA-PL Forage and Liposomes in Orotic Acid-Induced Nonalcoholic Fatty Liver Rats and Their Related Mechanisms. Journal of Agricultural and Food Chemistry, 2018, 66, 1408-1418.	2.4	19
52	Effects of dietary choline, betaine, and Lâ€carnitine on the generation of trimethylamineâ€Nâ€oxide in healthy mice. Journal of Food Science, 2020, 85, 2207-2215.	1.5	19
53	Synergistic effect of sea cucumber saponins and EPA-enriched phospholipids on insulin resistance in high-fat diet-induced obese mice. Food and Function, 2019, 10, 3955-3964.	2.1	18
54	DHA-PC protects kidneys against cisplatin-induced toxicity and its underlying mechanisms in mice. Food and Function, 2019, 10, 1571-1581.	2.1	18

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55	Characterization and Absorption Kinetics of a Novel Multifunctional Nanoliposome Stabilized by Sea Cucumber Saponins Instead of Cholesterol. Journal of Agricultural and Food Chemistry, 2020, 68, 642-651.	2.4	18
56	Low speed aerodynamic performance analysis of vortex lift waveriders with a wide-speed range. Acta Astronautica, 2019, 161, 209-221.	1.7	17
57	Numerical investigation and optimization on mixing enhancement factors in supersonic jet-to-crossflow flow fields. Acta Astronautica, 2016, 127, 321-325.	1.7	16
58	The Protective Activities of Dietary Sea Cucumber Cerebrosides against Atherosclerosis through Regulating Inflammation and Cholesterol Metabolism in Male Mice. Molecular Nutrition and Food Research, 2018, 62, e1800315.	1.5	16
59	Fish oil affects the metabolic process of trimethylamine N-oxide precursor through trimethylamine production and flavin-containing monooxygenase activity in male C57BL/6 mice. RSC Advances, 2017, 7, 56655-56661.	1.7	15
60	Comparative analyses of DHA-Phosphatidylcholine and recombination of DHA-Triglyceride with Egg-Phosphatidylcholine or Glycerylphosphorylcholine on DHA repletion in n-3 deficient mice. Lipids in Health and Disease, 2017, 16, 234.	1.2	14
61	Sea Cucumber Sterol Alleviates the Lipid Accumulation in High-Fatâ€“Fructose Diet Fed Mice. Journal of Agricultural and Food Chemistry, 2020, 68, 9707-9717.	2.4	13
62	Synergistic effect of eicosapentaenoic acid-enriched phospholipids and sea cucumber saponin on orotic acid-induced non-alcoholic fatty liver disease in rats. Royal Society Open Science, 2018, 5, 172182.	1.1	12
63	Eicosapentaenoic acidâ€enriched phospholipids suppressed lipid accumulation by specific inhibition of lipid dropletâ€associated protein FSP27 in mice. Journal of the Science of Food and Agriculture, 2020, 100, 2244-2251.	1.7	12
64	The interaction between dietary marine components and intestinal flora. Marine Life Science and Technology, 2020, 2, 161-171.	1.8	12
65	Preparation and Characterization of Astaxanthin-loaded Liposomes Stabilized by Sea Cucumber Sulfated Sterols Instead of Cholesterol. Journal of Oleo Science, 2022, 71, 401-410.	0.6	12
66	Docosahexaenoic acid-acylated curcumin diester alleviates cisplatin-induced acute kidney injury by regulating the effect of gut microbiota on the lipopolysaccharide- and trimethylamine-N-oxide-mediated PI3K/Akt/NF-ÎºB signaling pathway in mice. Food and Function, 2022, 13, 6103-6117.	2.1	12
67	Digestion, Absorption, and Metabolism Characteristics of EPA-Enriched Phosphoethanolamine Plasmalogens Based on Gastrointestinal Functions in Healthy Mice. Journal of Agricultural and Food Chemistry, 2019, 67, 12786-12795.	2.4	11
68	Comparative Analyses of DHAâ€Phosphatidylcholine Forage and Liposomes on Alzheimer's Disease in SAMP8 Mice. European Journal of Lipid Science and Technology, 2019, 121, 1800524.	1.0	11
69	Recovery of brain DHA-containing phosphatidylserine and ethanolamine plasmalogen after dietary DHA-enriched phosphatidylcholine and phosphatidylserine in SAMP8 mice fed with high-fat diet. Lipids in Health and Disease, 2020, 19, 104.	1.2	11
70	Comparative study on the digestion and absorption characteristics of n-3 LCPUFA-enriched phospholipids in the form of liposomes and emulsions. Food Research International, 2020, 137, 109428.	2.9	11
71	Structural design and analysis of a composite wing with high aspect ratio. Journal of Zhejiang University: Science A, 2019, 20, 781-793.	1.3	9
72	Effects of dietary n-3 PUFA levels in early life on susceptibility to high-fat-diet-induced metabolic syndrome in adult mice. Journal of Nutritional Biochemistry, 2021, 89, 108578.	1.9	9

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73	Dietary nâ€“3 PUFA Deficiency Increases Vulnerability to Scopolamine-Induced Cognitive Impairment in Male C57BL/6 Mice. Journal of Nutrition, 2021, 151, 2206-2214.	1.3	9
74	Advances of proteomics technologies for multidrug-resistant mechanisms. Future Medicinal Chemistry, 2019, 11, 2573-2593.	1.1	8
75	Sterol sulfate alleviates atherosclerosis via mediating hepatic cholesterol metabolism in ApoE^{â^'/â^'} mice. Food and Function, 2021, 12, 4887-4896.	2.1	8
76	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. Journal of Agricultural and Food Chemistry, 2022, 70, 3529-3540.	2.4	8
77	Taurine Alleviates Trimethylamine N-Oxide-Induced Atherosclerosis by Regulating Bile Acid Metabolism in ApoE^{â€“/â€“} Mice. Journal of Agricultural and Food Chemistry, 2022, 70, 5738-5747.	2.4	8
78	The enrichment of eggs with docosahexaenoic acid and eicosapentaenoic acid through supplementation of the laying hen diet. Food Chemistry, 2021, 346, 128958.	4.2	7
79	Comparison of the Digestion and Absorption Characteristics of Docosahexaenoic Acid-Acylated Astaxanthin Monoester and Diester in Mice. Journal of Ocean University of China, 2021, 20, 973-984.	0.6	7
80	Polyphenols from Ilex latifolia Thunb. (a Chinese bitter tea) exert anti-atherosclerotic activity through suppressing NF-ÎºB activation and phosphorylation of ERK1/2 in macrophages. MedChemComm, 2018, 9, 254-263.	3.5	6
81	The Protective Effect of Dietary EPAâ€Enriched Ethanolamine Plasmalogens against Hyperlipidemia in Aged Mice. European Journal of Lipid Science and Technology, 2020, 122, 2000179.	1.0	6
82	Dietary Trimethylamine N-Oxide Exacerbated Atherosclerosis under a Low-Fat Rather than High-Fat Diet. Journal of Agricultural and Food Chemistry, 2020, 68, 6789-6791.	2.4	6
83	Comparative evaluation of phosphatidylcholine and phosphatidylserine with different fatty acids on nephrotoxicity in vancomycin-induced mice. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1873-1884.	0.6	6
84	Integration of Novel Materials and Advanced Genomic Technologies into New Vaccine Design. Current Topics in Medicinal Chemistry, 2017, 17, 2286-2301.	1.0	6
85	EPA-Enriched Phospholipids Alleviate Renal Interstitial Fibrosis in Spontaneously Hypertensive Rats by Regulating TGF-Î² Signaling Pathways. Marine Drugs, 2022, 20, 152.	2.2	6
86	Detailed Parametric Investigation and Optimization of a Composite Wing with High Aspect Ratio. International Journal of Aerospace Engineering, 2019, 2019, 1-27.	0.5	5
87	Performance comparison between waverider and wide-speed-range gliding vehicle based on CFD approaches. Science China Technological Sciences, 2019, 62, 1861-1870.	2.0	5
88	Effects of Dietary Supplementation with EPA-enriched Phosphatidylcholine and Phosphatidylethanolamine on Glycerophospholipid Profile in Cerebral Cortex of SAMP8 Mice fed with High-fat Diet. Journal of Oleo Science, 2021, 70, 275-287.	0.6	5
89	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. Food and Function, 2022, 13, 1906-1920.	2.1	5
90	Absorption, Pharmacokinetics, Tissue Distribution, and Excretion Profiles of Sea Cucumber-Derived Sulfated Sterols in Mice. Journal of Agricultural and Food Chemistry, 2022, 70, 480-487.	2.4	5

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91	Relationship between structure and efficacy of sea cucumber saponins echinoside A and its derivatives on hemolytic activity and prevention of nonalcoholic fatty liver disease. Journal of Food Science, 2020, 85, 2198-2206.	1.5	4
92	Dietary Supplementation with Sea Cucumber Saponins and Exercise Can Significantly Suppress Adipose Accumulation in Mice Fed with High-Fat Diet. Journal of Ocean University of China, 2021, 20, 629-640.	0.6	4
93	Nâ€3 PUFAâ€Deficiency in Early Life Exhibits Aggravated MPTPâ€Induced Neurotoxicity in Old Age while Supplementation with DHA/EPAâ€Enriched Phospholipids Exerts a Neuroprotective Effect. Molecular Nutrition and Food Research, 2021, 65, e2100339.	1.5	4
94	The Different Protective Effects of Phospholipids Against Obesityâ€Induced Renal Injury Mainly Associate with Fatty Acid Composition. European Journal of Lipid Science and Technology, 2021, 123, 2100011.	1.0	3
95	A Comparative Study About the Neuroprotective Effects of EPA-Enriched Phosphoethanolamine Plasmalogen and Phosphatidylethanolamine Against Oxidative Damage in Primary Hippocampal Neurons. Journal of Ocean University of China, 2021, 20, 1207-1214.	0.6	3
96	Short-term supplementation of DHA-enriched phospholipids attenuates the nephrotoxicity of cisplatin without compromising its antitumor activity in mice. Food and Function, 2021, 12, 9391-9404.	2.1	3
97	Trimethylamine N-Oxide Generation from Choline-Containing Precursors Is Closely Associated with Their Molecular Structure. Journal of Agricultural and Food Chemistry, 2021, 69, 2933-2935.	2.4	2
98	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. Marine Drugs, 2021, 19, 499.	2.2	1