

Chang-Hu Xue

List of Publications by Year in descending order

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104
papers

2,807
citations

218381

26
h-index

223531

46
g-index

104
all docs

104
docs citations

104
times ranked

2823
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary trimethylamine N-oxide exacerbates impaired glucose tolerance in mice fed a high fat diet. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 476-481.	1.1	259
2	Health benefits of dietary marine DHA/EPA-enriched glycerophospholipids. <i>Progress in Lipid Research</i> , 2019, 75, 100997.	5.3	195
3	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
4	Title is missing!. <i>Journal of Applied Phycology</i> , 2001, 13, 67-70.	1.5	121
5	Eicosapentaenoic acid-enriched phospholipid ameliorates insulin resistance and lipid metabolism in diet-induced-obese mice. <i>Lipids in Health and Disease</i> , 2013, 12, 109.	1.2	104
6	Study of antioxidant activities of sulfated polysaccharides from <i>Laminaria japonica</i> . <i>Journal of Applied Phycology</i> , 2008, 20, 431-436.	1.5	88
7	The protective effect of eicosapentaenoic acid-enriched phospholipids from sea cucumber <i>Cucumaria frondosa</i> on oxidative stress in PC12 cells and SAMP8 mice. <i>Neurochemistry International</i> , 2014, 64, 9-17.	1.9	85
8	Saponins from Sea Cucumber and Their Biological Activities. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 7222-7237.	2.4	72
9	DHA-PC and DHA-PS improved A β 1-40 induced cognitive deficiency uncoupled with an increase in brain DHA in rats. <i>Journal of Functional Foods</i> , 2016, 22, 417-430.	1.6	60
10	Comparative studies of DHA-enriched phosphatidylcholine and recombination of DHA-ethyl ester with egg phosphatidylcholine on ameliorating memory and cognitive deficiency in SAMP8 mice. <i>Food and Function</i> , 2019, 10, 938-950.	2.1	50
11	Effects of different fatty acids composition of phosphatidylcholine on brain function of dementia mice induced by scopolamine. <i>Lipids in Health and Disease</i> , 2016, 15, 135.	1.2	48
12	Isolation and Anti-Fatty Liver Activity of a Novel Cerebroside from the Sea Cucumber <i>Acaudina molpadioides</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1466-1471.	0.6	47
13	LIPID PROFILE AND FATTY ACID COMPOSITIONS IN BODY WALL OF APOSTICHOPUS JAPONICUS (SELENKA). <i>Journal of Food Biochemistry</i> , 2012, 36, 317-321.	1.2	44
14	Eicosapentaenoic acid-enriched phospholipids improve A β 1-40-induced cognitive deficiency in a rat model of Alzheimer's disease. <i>Journal of Functional Foods</i> , 2016, 24, 537-548.	1.6	44
15	Comparative lipid profile of four edible shellfishes by UPLC-Triple TOF-MS/MS. <i>Food Chemistry</i> , 2020, 310, 125947.	4.2	44
16	DHA enriched phospholipids with different polar groups (PC and PS) had different improvements on MPTP-induced mice with Parkinson's disease. <i>Journal of Functional Foods</i> , 2018, 45, 417-426.	1.6	43
17	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
18	Transcriptome analysis revealed anti-obesity effects of the Sodium Alginate in high-fat diet -induced obese mice. <i>International Journal of Biological Macromolecules</i> , 2018, 115, 861-870.	3.6	39

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19	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
20	The anti-tumor activities of cerebrosides derived from sea cucumber &Acaudina molpadioides& and starfish &Asterias amurensis in vitro& and &in vivo&. <i>Journal of Oleo Science</i> , 2012, 61, 321-330.	0.6	34
21	Polymannuronic acid prevents dopaminergic neuronal loss via brain-gut-microbiota axis in Parkinson's disease model. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 994-1005.	3.6	34
22	Comparative Lipid Profile Analysis of Four Fish Species by Ultrapformance Liquid Chromatography Coupled with Quadrupole Time-of-Flight Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9423-9431.	2.4	33
23	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
24	Effects of polysaccharides from abalone (<i>Haliotis discus hannai</i> Ito) on HepG2 cell proliferation. <i>International Journal of Biological Macromolecules</i> , 2014, 66, 354-361.	3.6	30
25	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
26	EPA-enriched ethanolamine plasmalogen alleviates atherosclerosis via mediating bile acids metabolism. <i>Journal of Functional Foods</i> , 2020, 66, 103824.	1.6	30
27	The improvements of functional ingredients from marine foods in lipid metabolism. <i>Trends in Food Science and Technology</i> , 2018, 81, 74-89.	7.8	29
28	Rapid modulation of lipid metabolism in C57BL/6J mice induced by eicosapentaenoic acid-enriched phospholipid from <i>Cucumaria frondosa</i> . <i>Journal of Functional Foods</i> , 2017, 28, 28-35.	1.6	27
29	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
30	Seasonal changes in phospholipids of mussel (<i>Mytilus edulis</i> Linne). <i>Journal of the Science of Food and Agriculture</i> , 2003, 83, 133-135.	1.7	24
31	Sea cucumber cerebrosides and long-chain bases from <i>Acaudina molpadioides</i> protect against high fat diet-induced metabolic disorders in mice. <i>Food and Function</i> , 2015, 6, 3428-3436.	2.1	24
32	EPA-enriched phospholipids ameliorate cancer-associated cachexia mainly via inhibiting lipolysis. <i>Food and Function</i> , 2015, 6, 3652-3662.	2.1	24
33	Comparative Study of EPA-enriched Phosphatidylcholine and EPA-enriched Phosphatidylserine on Lipid Metabolism in Mice. <i>Journal of Oleo Science</i> , 2016, 65, 593-602.	0.6	24
34	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
35	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
36	Characterizing the phospholipid composition of six edible sea cucumbers by NPLC-Triple TOF-MS/MS. <i>Journal of Food Composition and Analysis</i> , 2020, 94, 103626.	1.9	23

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37	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
38	Purification and characterization of stomach protease from the turbot (<i>Scophthalmus maximus</i> L.). <i>Fish Physiology and Biochemistry</i> , 2006, 32, 179-188.	0.9	22
39	Sialoglycoprotein isolated from the eggs of <i>Gadus morhua</i> enhances fracture healing in osteoporotic mice. <i>Food and Function</i> , 2017, 8, 1094-1104.	2.1	21
40	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
41	A pilot study on the effects of DHA/EPA-enriched phospholipids on aerobic and anaerobic exercises in mice. <i>Food and Function</i> , 2020, 11, 1441-1454.	2.1	20
42	LIPID AND FATTY ACID COMPOSITION OF TWO SPECIES OF ABALONE, <i>HALIOTIS DISCUS HANNAI</i> AND <i>HALIOTIS DIVERSICOLOR</i> REEVE. <i>Journal of Food Biochemistry</i> , 2013, 37, 296-301.	1.2	19
43	Sialoglycoprotein isolated from the eggs of <i>Carassius auratus</i> prevents bone loss: an effect associated with the regulation of gut microbiota in ovariectomized rats. <i>Food and Function</i> , 2016, 7, 4764-4771.	2.1	19
44	Exogenous natural EPA-enriched phosphatidylcholine and phosphatidylethanolamine ameliorate lipid accumulation and insulin resistance via activation of PPAR α in mice. <i>Food and Function</i> , 2020, 11, 8248-8258.	2.1	19
45	Effects of dietary choline, betaine, and L-carnitine on the generation of trimethylamine oxide in healthy mice. <i>Journal of Food Science</i> , 2020, 85, 2207-2215.	1.5	19
46	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
47	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
48	The opposite effects of Antarctic krill oil and arachidonic acid-rich oil on bone resorption in ovariectomized mice. <i>Food and Function</i> , 2020, 11, 7048-7060.	2.1	18
49	Characterization of lipid composition in the muscle tissue of four shrimp species commonly consumed in China by UPLC-Triple TOF-MS/MS. <i>LWT - Food Science and Technology</i> , 2020, 128, 109469.	2.5	18
50	PHOSPHATIDYLCHOLINE LEVELS AND THEIR FATTY ACID COMPOSITIONS IN SQUID EGG: A COMPARISON STUDY WITH POLLACK ROE AND STURGEON CAVIAR. <i>Journal of Food Lipids</i> , 2008, 15, 222-230.	0.9	17
51	Structure of Sphingolipids From Sea Cucumber <i>Cucumaria frondosa</i> and Structure-Specific Cytotoxicity Against Human HepG2 Cells. <i>Lipids</i> , 2016, 51, 321-334.	0.7	17
52	Effects of dietary glucocerebrosides from sea cucumber on the brain sphingolipid profiles of mouse models of Alzheimer's disease. <i>Food and Function</i> , 2017, 8, 1271-1281.	2.1	17
53	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
54	Lipidomics Approach in High-Fat-Diet-Induced Atherosclerosis Dyslipidemia Hamsters: Alleviation Using Ether-Phospholipids in Sea Urchin. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9167-9177.	2.4	16

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55	DHA/EPA-Enriched Phosphatidylcholine Suppresses Tumor Growth and Metastasis via Activating Peroxisome Proliferator-Activated Receptor β in Lewis Lung Cancer Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 676-685.	2.4	16
56	Transport and uptake effects of marine complex lipid liposomes in small intestinal epithelial cell models. <i>Food and Function</i> , 2016, 7, 1904-1914.	2.1	15
57	Antarctic Krill Oil improves articular cartilage degeneration via activating chondrocyte autophagy and inhibiting apoptosis in osteoarthritis mice. <i>Journal of Functional Foods</i> , 2018, 46, 413-422.	1.6	15
58	A Novel Sialoglycopeptide from <i>Gadus morhua</i> Eggs Prevents Liver Fibrosis Induced by CCl ₄ via Downregulating FXR/FGF15 and TLR4/TGF- β 2/Smad Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13093-13101.	2.4	15
59	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
60	Replenishment of Docosahexaenoic Acid (DHA) in Dietary n-3 Deficient Mice Fed DHA in Triglycerides or Phosphatidylcholines After Weaning. <i>Journal of Food Science</i> , 2018, 83, 481-488.	1.5	14
61	Preparation of Sulforaphene from Radish Seed Extracts with Recombinant Food-Grade <i>Yarrowia lipolytica</i> Harboring High Myrosinase Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5363-5371.	2.4	14
62	Identification of ceramide 2-aminoethylphosphonate molecular species from different aquatic products by NPLC/Q-Exactive-MS. <i>Food Chemistry</i> , 2020, 304, 125425.	4.2	13
63	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
64	Molecular species analysis of monosialogangliosides from sea urchin <i>Strongylocentrotus nudus</i> by RPLC-ESI-MS/MS. <i>Food Chemistry</i> , 2015, 166, 473-478.	4.2	12
65	Long-Term Effects of Docosahexaenoic Acid-Bound Phospholipids and the Combination of Docosahexaenoic Acid-Bound Triglyceride and Egg Yolk Phospholipid on Lipid Metabolism in Mice. <i>Journal of Ocean University of China</i> , 2018, 17, 392-398.	0.6	12
66	The interaction between dietary marine components and intestinal flora. <i>Marine Life Science and Technology</i> , 2020, 2, 161-171.	1.8	12
67	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
68	Hepatoprotective effects of sea cucumber ether-phospholipids against alcohol-induced lipid metabolic dysregulation and oxidative stress in mice. <i>Food and Function</i> , 2022, 13, 2791-2804.	2.1	12
69	Neuroprotection of <i>Strongylocentrotus nudus</i> gangliosides against Alzheimer's disease via regulation of neurite loss and mitochondrial apoptosis. <i>Journal of Functional Foods</i> , 2017, 33, 122-133.	1.6	11
70	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
71	Application of Plackett-Burman Design in Screening of Natural Antioxidants Suitable for Anchovy Oil. <i>Antioxidants</i> , 2019, 8, 627.	2.2	11
72	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

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73	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
74	Comparative Study of DHA with Different Molecular Forms for Ameliorating Osteoporosis by Promoting Chondrocyte-to-Osteoblast Transdifferentiation in the Growth Plate of Ovariectomized Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 10562-10571.	2.4	10
75	Serum pharmacokinetics of choline, trimethylamine, and trimethylamine-N-oxide after oral gavage of phosphatidylcholines with different fatty acid compositions in mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2217-2223.	0.6	9
76	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
77	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
78	Characterizing gangliosides in six sea cucumber species by HILIC-ESI-MS/MS. <i>Food Chemistry</i> , 2021, 352, 129379.	4.2	9
79	Novel peptides from sea cucumber intestinal hydrolysates promote longitudinal bone growth in adolescent mice through accelerating cell cycle progress by regulating glutamine metabolism. <i>Food and Function</i> , 2022, 13, 7730-7739.	2.1	9
80	Sterol sulfate alleviates atherosclerosis via mediating hepatic cholesterol metabolism in ApoE ^{-/-} mice. <i>Food and Function</i> , 2021, 12, 4887-4896.	2.1	8
81	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
82	Comprehensive Lipidomic Analysis of Three Edible Brown Seaweeds Based on Reversed-Phase Liquid Chromatography Coupled with Quadrupole Time-of-Flight Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 4138-4151.	2.4	8
83	Taurine Alleviates Trimethylamine N-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
84	Preparation and effects on neuronal nutrition of plasmenelethonoamine and plasmanylcholine from the mussel <i>Mytilus edulis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 380-392.	0.6	7
85	Maternal diet with sea urchin gangliosides promotes neurodevelopment of young offspring via enhancing NGF and BDNF expression. <i>Food and Function</i> , 2020, 11, 9912-9923.	2.1	7
86	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
87	Comparative study of holothurin A and echinoside A on inhibiting the high bone turnover via downregulating PI3K/AKT/ β -catenin and OPG/RANKL/NF- κ B signaling in ovariectomized mice. <i>Food and Function</i> , 2022, 13, 4748-4756.	2.1	7
88	Characterization of a Novel Carrageenan-Specific Carbohydrate-Binding Module: a Promising Tool for the In Situ Investigation of Carrageenan. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 9066-9072.	2.4	7
89	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
90	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

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91	EPA-Enriched Phospholipids Alleviate Renal Interstitial Fibrosis in Spontaneously Hypertensive Rats by Regulating TGF- β Signaling Pathways. <i>Marine Drugs</i> , 2022, 20, 152.	2.2	6
92	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
93	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
94	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
95	Extracting Protein from Antarctic Krill (<i>Euphausia superba</i>). <i>Journal of Aquatic Food Product Technology</i> , 2016, 25, 597-606.	0.6	4
96	Effect of Stored Humidity and Initial Moisture Content on the Qualities and Mycotoxin Levels of Maize Germ and Its Processing Products. <i>Toxins</i> , 2020, 12, 535.	1.5	4
97	Characterization of Gangliosides in Three Sea Urchin Species by HILIC-ESI-MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 7641-7651.	2.4	4
98	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
99	Docosahexaenoic acid-containing phosphatidylcholine induced osteoblastic differentiation by modulating key transcription factors. <i>Journal of Food Biochemistry</i> , 2018, 42, e12661.	1.2	3
100	Sea urchin gangliosides exhibit neuritogenic effects in neuronal PC12 cells via TrkA- and TrkB-related pathways. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 675-686.	0.6	3
101	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
102	Determination of 6 Kinds of Sex Hormones in Fish Using Subcritical 1,1,1,2-Tetrafluoroethane Extraction-Gas Chromatography-Tandem Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2013, 41, 1487-1492.	0.9	2
103	Trimethylamine N-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
104	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