Jun Lu

List of Publications by Year
in descending order

117 papers	3,625 citations	117571 34 h-index	161767 54 g-index
117 all docs	117 docs citations	117 times ranked	4918 citing authors

#	Article	IF	Citations
1	Fucoxanthin content and antioxidant properties of Undaria pinnatifida. Food Chemistry, 2013, 136, 1055-1062.	4.2	184
2	Fucoidan from New Zealand Undaria pinnatifida: Monthly variations and determination of antioxidant activities. Carbohydrate Polymers, 2013, 95, 606-614.	5.1	175
3	Ectopic fat accumulation in the pancreas and its clinical relevance: A systematic review, meta-analysis, and meta-regression. Metabolism: Clinical and Experimental, 2017, 69, 1-13.	1.5	165
4	Identification and activation of TLR4-mediated signalling pathways by alginate-derived guluronate oligosaccharide in RAW264.7 macrophages. Scientific Reports, 2017, 7, 1663.	1.6	133
5	Application of Fused Deposition Modelling (FDM) Method of 3D Printing in Drug Delivery. Current Pharmaceutical Design, 2017, 23, 433-439.	0.9	130
6	Fucoidan Extracted from Undaria pinnatifida: Source for Nutraceuticals/Functional Foods. Marine Drugs, 2018, 16, 321.	2.2	116
7	Structure characterization and antioxidant activity of fucoidan isolated from Undaria pinnatifida grown in New Zealand. Carbohydrate Polymers, 2019, 212, 178-185.	5.1	115
8	Fluoroquinolones and Î²-lactam antibiotics and antibiotic resistance genes in autumn leachates of seven major municipal solid waste landfills in China. Environment International, 2018, 113, 162-169.	4.8	86
9	Study on interaction between curcumin and pepsin by spectroscopic and docking methods. International Journal of Biological Macromolecules, 2015, 79, 201-208.	3.6	79
10	Performance and bacterial compositions of aged refuse reactors treating mature landfill leachate. Bioresource Technology, 2012, 103, 71-77.	4.8	76
11	A copper(II)-selective chelator ameliorates diabetes-evoked renal fibrosis and albuminuria, and suppresses pathogenic TGF-Î² activation in the kidneys of rats used as a model of diabetes. Diabetologia, 2008, 51, 1741-1751.	2.9	62
12	Seasonal changes in lipid, fatty acid, Î±-tocopherol and phytosterol contents of seaweed, Undaria pinnatifida, in the Marlborough Sounds, New Zealand. Food Chemistry, 2014, 161, 261-269.	4.2	61
13	Increased Bile Acids and FGF19 After Sleeve Gastrectomy and Roux-en-Y Gastric Bypass Correlate with Improvement in Type 2 Diabetes in a Randomized Trial. Obesity Surgery, 2018, 28, 2672-2686.	1.1	61
14	Immune Activation of RAW264.7 Macrophages by Low Molecular Weight Fucoidan Extracted from New Zealand Undaria pinnatifida. Journal of Agricultural and Food Chemistry, 2018, 66, 10721-10728.	2.4	60
15	Thalidomide Pharmacokinetics and Metabolite Formation in Mice, Rabbits, and Multiple Myeloma Patients. Clinical Cancer Research, 2004, 10, 5949-5956.	3.2	57
16	Rapid detection of Listeria monocytogenes in food by biofunctionalized magnetic nanoparticle based on nuclear magnetic resonance. Food Control, 2017, 71, 110-116.	2.8	57
17	Membrane Transporters as Determinants of the Pharmacology of Platinum Anticancer Drugs. Current Cancer Drug Targets, 2012, 12, 962-986.	0.8	55
18	Characterization of thermophilic fungal community associated with pile fermentation of Pu-erh tea. International Journal of Food Microbiology, 2016, 227, 29-33.	2.1	52

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19	Effect of (â˜)-epigallocatechin gallate (EGCG) extracted from green tea in reducing the formation of acrylamide during the bread baking process. Food Chemistry, 2018, 242, 162-168.	4.2	52
20	Triethylenetetramine Pharmacology and Its Clinical Applications. Molecular Cancer Therapeutics, 2010, 9, 2458-2467.	1.9	51
21	Intrapancreatic fat deposition and visceral fat volume are associated with the presence of diabetes after acute pancreatitis. American Journal of Physiology - Renal Physiology, 2019, 316, G806-G815.	1.6	51
22	Metabolism of Thalidomide in Liver Microsomes of Mice, Rabbits, and Humans. Journal of Pharmacology and Experimental Therapeutics, 2004, 310, 571-577.	1.3	50
23	The Polyamine Catabolic Enzyme SAT1 Modulates Tumorigenesis and Radiation Response in GBM. Cancer Research, 2014, 74, 6925-6934.	0.4	48
24	Alginate enhances Toll-like receptor 4-mediated phagocytosis by murine RAW264.7 macrophages. International Journal of Biological Macromolecules, 2017, 105, 1446-1454.	3.6	47
25	Fucoidan Extracted from the New Zealand Undaria pinnatifidaâ€”Physicochemical Comparison against Five Other Fucoidans: Unique Low Molecular Weight Fraction Bioactivity in Breast Cancer Cell Lines. Marine Drugs, 2018, 16, 461.	2.2	47
26	Prevalence of Celiac Disease Autoimmunity Among Adolescents and Young Adults in China. Clinical Gastroenterology and Hepatology, 2017, 15, 1572-1579.e1.	2.4	46
27	Anti-Proliferation Potential and Content of Fucoidan Extracted from Sporophyll of New Zealand Undaria pinnatifida. Frontiers in Nutrition, 2014, 1, 9.	1.6	43
28	Culture-Dependent and -Independent Methods to Investigate the Predominant Microorganisms Associated with Wet Processed Coffee. Current Microbiology, 2016, 73, 190-195.	1.0	42
29	Molecular Changes Evoked by Triethylenetetramine Treatment in the Extracellular Matrix of the Heart and Aorta in Diabetic Rats. Molecular Pharmacology, 2006, 70, 2045-2051.	1.0	41
30	Copper(II)-selective chelation improves function and antioxidant defences in cardiovascular tissues of rats as a model of diabetes: comparisons between triethylenetetramine and three less copper-selective transition-metal-targeted treatments. Diabetologia, 2010, 53, 1217-1226.	2.9	40
31	Extracts from New Zealand Undaria pinnatifida Containing Fucoxanthin as Potential Functional Biomaterials against Cancer in Vitro. Journal of Functional Biomaterials, 2014, 5, 29-42.	1.8	40
32	Quantitative proteomic profiling identifies new renal targets of copper(II)â€selective chelation in the reversal of diabetic nephropathy in rats. Proteomics, 2009, 9, 4309-4320.	1.3	37
33	Landfill leachate pollutant removal performance of a novel biofilter packed with mixture medium. Bioresource Technology, 2010, 101, 7754-7760.	4.8	37
34	Treatment with a copper-selective chelator causes substantive improvement in cardiac function of diabetic rats with left-ventricular impairment. Cardiovascular Diabetology, 2013, 12, 28.	2.7	36
35	Elucidation of the Molecular-Mechanisms and In Vivo Evaluation of the Anti-inflammatory Effect of Alginate-Derived Seleno-polymannuronate. Journal of Agricultural and Food Chemistry, 2018, 66, 2083-2091.	2.4	36
36	Structural Dependence of Sulfated Polysaccharide for Diabetes Management: Fucoidan From Undaria pinnatifida Inhibiting Î±-Glucosidase More Strongly Than Î±-Amylase and Amyloglucosidase. Frontiers in Pharmacology, 2020, 11, 831.	1.6	34

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37	Effect of overexpression of LPAAT and GPD1 on lipid synthesis and composition in green microalga Chlamydomonas reinhardtii. Journal of Applied Phycology, 2018, 30, 1711-1719.	1.5	33
38	Antifungal mechanisms of Î±â€terpineol and terpeneâ€4â€alcohol as the critical components of Melaleuca alternifolia oil in the inhibition of rot disease caused by Aspergillus ochraceus in postharvest grapes. Journal of Applied Microbiology, 2019, 126, 1161-1174.	1.4	33
39	Triethylenetetramine and Metabolites: Levels in Relation to Copper and Zinc Excretion in Urine of Healthy Volunteers and Type 2 Diabetic Patients. Drug Metabolism and Disposition, 2007, 35, 221-227.	1.7	32
40	Comparison of physicochemical characteristics, sensory properties and volatile composition between commercial and New Zealand made wakame from Undaria pinnatifida. Food Chemistry, 2015, 186, 168-175.	4.2	32
41	Red cherries (Prunus avium var. Stella) processed by pulsed electric field â€“ Physical, chemical and microbiological analyses. Food Chemistry, 2018, 240, 926-934.	4.2	32
42	Thalidomide metabolites in mice and patients with multiple myeloma. Clinical Cancer Research, 2003, 9, 1680-8.	3.2	32
43	Surface properties of bacteria from activated sludge in relation to bioflocculation. Journal of Environmental Sciences, 2010, 22, 1840-1845.	3.2	30
44	Effect of Cold Storage and Reheating of Parboiled Rice on Postprandial Glycaemic Response, Satiety, Palatability and Chewed Particle Size Distribution. Nutrients, 2017, 9, 475.	1.7	28
45	Allergenicity characteristics of germinated soybean proteins in a BALB/c mouse model. Regulatory Toxicology and Pharmacology, 2015, 72, 249-255.	1.3	27
46	Changes in total nitrogen and amino acid composition of New Zealand Undaria pinnatifida with growth, location and plant parts. Food Chemistry, 2015, 186, 319-325.	4.2	27
47	Unsaturated mannuronate oligosaccharide ameliorates Î²â€amyloid pathology through autophagy in Alzheimerâ€™s disease cell models. Carbohydrate Polymers, 2021, 251, 117124.	5.1	27
48	The natural compound fucoidan from New Zealand Undaria pinnatifida synergizes with the ERBB inhibitor lapatinib enhancing melanoma growth inhibition. Oncotarget, 2017, 8, 17887-17896.	0.8	26
49	Pharmacokinetics, Pharmacodynamics, and Metabolism of Triethylenetetramine in Healthy Human Participants: An Openâ€Label Trial. Journal of Clinical Pharmacology, 2010, 50, 647-658.	1.0	25
50	Battacin-Inspired Ultrashort Peptides: Nanostructure Analysis and Antimicrobial Activity. Biomacromolecules, 2019, 20, 2515-2529.	2.6	25
51	Determination of triethylenetetramine (TETA) and its metabolites in human plasma and urine by liquid chromatographyâ€“mass spectrometry (LCâ€“MS). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 859, 62-68.	1.2	24
52	Acute Changes of Bile Acids and FGF19 After Sleeve Gastrectomy and Roux-en-Y Gastric Bypass. Obesity Surgery, 2019, 29, 3605-3621.	1.1	24
53	Extraction techniques and potential health benefits of bioactive compounds from marine molluscs: a review. Food and Function, 2019, 10, 2278-2289.	2.1	23
54	Induction and Resuscitation of the Viable but Nonculturable State in a Cyanobacteria-Lysing Bacterium Isolated from Cyanobacterial Bloom. Microbial Ecology, 2012, 63, 64-73.	1.4	22

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55	Mechanism and Nature of Inhibition of Trypsin by Ligupurpuroside A, a Ku-Ding Tea Extract, Studied by Spectroscopic and Docking Methods. Food Biophysics, 2017, 12, 78-87.	1.4	22
56	Proteins extracted from seaweedUndaria pinnatifidaand their potential uses as foods and nutraceuticals. Critical Reviews in Food Science and Nutrition, 2022, 62, 6187-6203.	5.4	22
57	Flavobacterium qiangtangensis sp. nov., Isolated from Qiangtang Basin in Qinghai-Tibetan Plateau, China. Current Microbiology, 2014, 69, 234-239.	1.0	21
58	Fucoidan Extracted From Sporophyll of Undaria pinnatifida Grown in Weihai, China â€“ Chemical Composition and Comparison of Antioxidant Activity of Different Molecular Weight Fractions. Frontiers in Nutrition, 2021, 8, 636930.	1.6	21
59	Studies on thermodynamic nature of steroselectivity for ruthenium(II) polypyridyl complex binding to DNA. Inorganic Chemistry Communication, 2010, 13, 711-714.	1.8	20
60	Microbial Community Structures and Dynamics in the O3/BAC Drinking Water Treatment Process. International Journal of Environmental Research and Public Health, 2014, 11, 6281-6290.	1.2	20
61	Physicochemical changes in New Zealand abalone (Haliotis iris) with pulsed electric field (PEF) processing and heat treatments. LWT - Food Science and Technology, 2019, 115, 108438.	2.5	20
62	Alginate with citrus pectin and pterostilbene as healthy food packaging with antioxidant property. International Journal of Biological Macromolecules, 2021, 193, 2093-2102.	3.6	19
63	Microbial community study in newly established Qingcaosha Reservoir of Shanghai, China. Applied Microbiology and Biotechnology, 2014, 98, 9849-9858.	1.7	18
64	Interaction mechanism of pepsin with a natural inhibitor gastrodin studied by spectroscopic methods and molecular docking. Medicinal Chemistry Research, 2017, 26, 405-413.	1.1	18
65	Identification of MRP2 as a targetable factor limiting oxaliplatin accumulation and response in gastrointestinal cancer. Scientific Reports, 2019, 9, 2245.	1.6	18
66	Differential Acute Impacts of Sleeve Gastrectomy, Roux-en-Y Gastric Bypass Surgery and Matched Caloric Restriction Diet on Insulin Secretion, Insulin Effectiveness and Non-Esterified Fatty Acid Levels Among Patients with Type 2 Diabetes. Obesity Surgery, 2016, 26, 1924-1931.	1.1	17
67	Transport-Mediated Oxaliplatin Resistance Associated with Endogenous Overexpression of MRP2 in Caco-2 and PANC-1 Cells. Cancers, 2019, 11, 1330.	1.7	17
68	Preparation and potential applications of alginate oligosaccharides. Critical Reviews in Food Science and Nutrition, 2023, 63, 10130-10147.	5.4	17
69	Alginate-Derived Mannuronate Oligosaccharide Attenuates Tauopathy through Enhancing Autophagy. Journal of Agricultural and Food Chemistry, 2021, 69, 4438-4445.	2.4	16
70	Investigation of Different Molecular Weight Fucoidan Fractions Derived from New Zealand Undaria pinnatifida in Combination with GroA Therapy in Prostate Cancer Cell Lines. Marine Drugs, 2018, 16, 454.	2.2	15
71	The antioxidant potential of the New Zealand surf clams. Food Chemistry, 2016, 204, 141-149.	4.2	14
72	The impact of curcumin-graphene based nanoformulation on cellular interaction and redox-activated apoptosis: An in vitro colon cancer study. Heliyon, 2020, 6, e05360.	1.4	14

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73	Effects of Different Doses of Eucalyptus Oil From Eucalyptus globulus Labill on Respiratory Tract Immunity and Immune Function in Healthy Rats. Frontiers in Pharmacology, 2020, 11, 1287.	1.6	14
74	Acute Changes in Non-esterified Fatty Acids in Patients with Type 2 Diabetes Receiving Bariatric Surgery. Obesity Surgery, 2017, 27, 649-656.	1.1	13
75	Development and validation of a rapid HPLC method for the simultaneous determination of triethylenetetramine and its two main metabolites in human serum. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 860, 42-48.	1.2	12
76	Blocking celiac antigenicity of the glutamine-rich gliadin 33-mer peptide by microbial transglutaminase. RSC Advances, 2017, 7, 14438-14447.	1.7	12
77	Bacterial and Archaeal Diversities in Maotai Section of the Chishui River, China. Current Microbiology, 2016, 73, 924-929.	1.0	11
78	Enhancement of carotenoid production and its regulation in edible mushroom Cordyceps militaris by abiotic stresses. Enzyme and Microbial Technology, 2021, 148, 109808.	1.6	11
79	Phenolics composition and contents, as the key quality parameters of table grapes, may be influenced obviously and differently in response to short-term high temperature. LWT - Food Science and Technology, 2021, 149, 111791.	2.5	11
80	Progress in biological activities and biosynthesis of edible fungi terpenoids. Critical Reviews in Food Science and Nutrition, 2023, 63, 7288-7310.	5.4	11
81	A novel hearing specialization in the New Zealand bigeye,Pempheris adspersa. Biology Letters, 2013, 9, 20130163.	1.0	10
82	PTEN, Longevity and Age-Related Diseases. Biomedicines, 2013, 1, 17-48.	1.4	10
83	Two new species of freshwater Macrostomum (Rhabditophora: Macrostomorpha) found in China. Zootaxa, 2017, 4329, 267.	0.2	10
84	Effect of fermentation on content, molecule weight distribution and viscosity of Î²â€glucans in oat sourdough. International Journal of Food Science and Technology, 2019, 54, 62-67.	1.3	10
85	Evaluation of Ethnic Variations in Visceral, Subcutaneous, Intra-Pancreatic, and Intra-Hepatic Fat Depositions by Magnetic Resonance Imaging among New Zealanders. Biomedicines, 2020, 8, 174.	1.4	9
86	Characterization of Bacillus cereus AFA01 Capable of Degrading Gluten and Celiac-Immunotoxic Peptides. Foods, 2021, 10, 1725.	1.9	9
87	Illuminating the molecular basis of diabetic arteriopathy: A proteomic comparison of aortic tissue from diabetic and healthy rats. Proteomics, 2010, 10, 3367-3378.	1.3	8
88	A proposed mechanism for the observed ontogenetic improvement in the hearing ability of hapuka (Polyprion oxygeneios). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 653-661.	0.7	8
89	Estimating Cyanobacteria Community Dynamics and its Relationship with Environmental Factors. International Journal of Environmental Research and Public Health, 2014, 11, 1141-1160.	1.2	8
90	Preparation, immunological characterization and polyclonal antibody development for recombinant epitope tandem derived from bovineÎ²-lactoglobulin. Food and Agricultural Immunology, 2016, 27, 806-819.	0.7	8

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91	In Vitro and In Vivo Dendritic Cell Immune Stimulation Effect of Low Molecular Weight Fucoidan from New Zealand Undaria pinnatifida. Marine Drugs, 2022, 20, 197.	2.2	8
92	The antioxidant and tyrosinase inhibition properties of essential oil from the peel of Chinese <i>Torreya grandis</i> Fort.. RSC Advances, 2019, 9, 42360-42366.	1.7	7
93	Covalently Immobilized Battacin Lipopeptide Gels with Activity against Bacterial Biofilms. Molecules, 2020, 25, 5945.	1.7	7
94	Effect of Lactobacillus rhamnosus Probiotic in Early Pregnancy on Plasma Conjugated Bile Acids in a Randomised Controlled Trial. Nutrients, 2021, 13, 209.	1.7	7
95	Pancreas Fat, an Early Marker of Metabolic Risk? A Magnetic Resonance Study of Chinese and Caucasian Women: TOFI_Asia Study. Frontiers in Physiology, 2022, 13, 819606.	1.3	7
96	Bioactivity enhancement of fucoidan through complexing with bread matrix and baking. LWT - Food Science and Technology, 2020, 130, 109646.	2.5	6
97	Failure mode and effect analysis (FMEA) to identify and mitigate failures in a hospital rapid response system (RRS). Heliyon, 2022, 8, e08944.	1.4	6
98	Next-generation sequencing as an advanced supplementary tool for the diagnosis of pathogens in lower respiratory tract infections: An observational trial in Xi'an, China. Biomedical Reports, 2021, 16, 14.	0.9	6
99	Contesting Transnational Mobility among New Zealandâ€™s Chinese Migrants from an Economic Perspectiveæ–°è¥¿å…°ä¸å›½è·¨å›½ç§»æ°‘çš„è·¨ç•Œç»æµŽæ´»åŠ¨åŠæˆå›. Journal of Chinese Overseas, 2015, 11, 146-173.	0.5	5
100	Carbon-Carbon Double Bond and Resorcinol in Resveratrol and Its Analogues: What Is the Characteristic Structure in Quenching Singlet Oxygen?. Biomolecules, 2019, 9, 268.	1.8	5
101	Potential Nutraceutical Use of <i>Tribulus terrestris</i> L. in Human Health. Food Reviews International, 0, , 1-30.	4.3	5
102	Effects of PTEN on the longevity of cultured human umbilical vein endothelial cells: The role of antioxidants. International Journal of Molecular Medicine, 2015, 35, 277-284.	1.8	4
103	Effects of Maillard reaction conditions on in vitro immunoglobulin G binding capacity of ovalbumin using response surface methodology. Food and Agricultural Immunology, 2015, 26, 835-847.	0.7	4
104	Assessing sperm membrane viability using flow cytometry in farmed New Zealand giant kokopu <i>Galaxias argenteus</i>. New Zealand Journal of Marine and Freshwater Research, 2018, 52, 362-371.	0.8	4
105	The Effect of Cold Treatment of Parboiled Rice with Lowered Glycaemic Potency on Consumer Liking and Acceptability. Foods, 2018, 7, 207.	1.9	4
106	Can the Molar Insulin: C-Peptide Ratio Be Used to Predict Hyperinsulinaemia?. Biomedicines, 2020, 8, 108.	1.4	4
107	Association between the C34T polymorphism of the AMPD1 gene and essential hypertension in Malaysian patients. Genetics and Molecular Research, 2016, 15, .	0.3	3
108	Cytotoxicity of Extracts from New Zealand Surf Clams Against Organ Cancer Cell Lines. Biomedicines, 2019, 7, 25.	1.4	2

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109	Effects of preparation method on the biochemical characterization and cytotoxic activity of New Zealand surf clam extracts. Heliyon, 2020, 6, e04357.	1.4	2
110	Preparation and evaluation of mushroom (Lentinus edodes) and mealworm (Tenebrio molitor) as dog food attractant. Heliyon, 2020, 6, e05302.	1.4	2
111	Mechanism of Resveratrol Dimers Isolated from Grape Inhibiting 1O2 Induced DNA Damage by UHPLC-QTOF-MS2 and UHPLC-QQQ-MS2 Analyses. Biomedicines, 2021, 9, 271.	1.4	2
112	Editorial: Food Bioactive Polysaccharides and Their Health Functions. Frontiers in Nutrition, 2021, 8, 746255.	1.6	2
113	Fucoidan Regulates Starch Digestion: In Vitro and Mechanistic Study. Foods, 2022, 11, 427.	1.9	2
114	Temporal Patterns in Bacterioplankton Community Composition in Three Reservoirs of Similar Trophic Status in Shenzhen, China. International Journal of Environmental Research and Public Health, 2016, 13, 599.	1.2	1
115	Does caffeine exert doseâ€response effects on saliva secretory IgA following prolonged submaximal running?. Translational Sports Medicine, 2019, 2, 178-185.	0.5	1
116	Mapping Chinese Return Migration from New Zealand: A Quantitative Data Analysis from a Comparative Perspective. Diaspora, 2017, 19, 195-228.	0.2	1
117	Cytotoxicity of New Zealand surf clam extracts against hormone sensitive cancer cell lines. Food Bioscience, 2020, 35, 100568.	2.0	0