

Guodong Zhang

List of Publications by Year in descending order

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85
papers

3,367
citations

147726

31
h-index

155592

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docs citations

86
times ranked

4836
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and Chemical Stability of Curcumin in Aqueous Solutions and Emulsions: Impact of pH, Temperature, and Molecular Environment. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 1525-1532.	2.4	398
2	Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6530-6535.	3.3	251
3	Biological Implications of Lipid Oxidation Products. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 339-351.	0.8	167
4	Stabilized epoxygenated fatty acids regulate inflammation, pain, angiogenesis and cancer. <i>Progress in Lipid Research</i> , 2014, 53, 108-123.	5.3	133
5	A common antimicrobial additive increases colonic inflammation and colitis-associated colon tumorigenesis in mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	117
6	High Fat Diet Alters Gut Microbiota and the Expression of Paneth Cell-Antimicrobial Peptides Preceding Changes of Circulating Inflammatory Cytokines. <i>Mediators of Inflammation</i> , 2017, 2017, 1-9.	1.4	116
7	ω-3 Polyunsaturated fatty acids-derived lipid metabolites on angiogenesis, inflammation and cancer. <i>Prostaglandins and Other Lipid Mediators</i> , 2014, 113-115, 13-20.	1.0	112
8	Curcumin: Recent Advances in the Development of Strategies to Improve Oral Bioavailability. <i>Annual Review of Food Science and Technology</i> , 2019, 10, 597-617.	5.1	112
9	Enhancement of carotenoid bioaccessibility from carrots using excipient emulsions: influence of particle size of digestible lipid droplets. <i>Food and Function</i> , 2016, 7, 93-103.	2.1	101
10	Synthesis and biological evaluation of sorafenib- and regorafenib-like sEH inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3732-3737.	1.0	87
11	Dual inhibition of cyclooxygenase-2 and soluble epoxide hydrolase synergistically suppresses primary tumor growth and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11127-11132.	3.3	84
12	Dietary Intake of Whole Strawberry Inhibited Colonic Inflammation in Dextran-Sulfate-Sodium-Treated Mice via Restoring Immune Homeostasis and Alleviating Gut Microbiota Dysbiosis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9168-9177.	2.4	84
13	Stability of curcumin in oil-in-water emulsions: Impact of emulsifier type and concentration on chemical degradation. <i>Food Research International</i> , 2018, 111, 178-186.	2.9	81
14	Chemopreventive effects of nobiletin and its colonic metabolites on colon carcinogenesis. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2383-2394.	1.5	75
15	Structure-Activity Relationship of Curcumin: Role of the Methoxy Group in Anti-inflammatory and Anticolitis Effects of Curcumin. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4509-4515.	2.4	66
16	Enhancing Nutraceutical Bioavailability from Raw and Cooked Vegetables Using Excipient Emulsions: Influence of Lipid Type on Carotenoid Bioaccessibility from Carrots. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10508-10517.	2.4	64
17	Potential roles of chemical degradation in the biological activities of curcumin. <i>Food and Function</i> , 2017, 8, 907-914.	2.1	64
18	Foodborne Titanium Dioxide Nanoparticles Induce Stronger Adverse Effects in Obese Mice than Non-Obese Mice: Gut Microbiota Dysbiosis, Colonic Inflammation, and Proteome Alterations. <i>Small</i> , 2020, 16, e2001858.	5.2	60

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19	Lipidomic profiling reveals soluble epoxide hydrolase as a therapeutic target of obesity-induced colonic inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5283-5288.	3.3	59
20	Influence of Lipid Phase Composition of Excipient Emulsions on Curcumin Solubility, Stability, and Bioaccessibility. <i>Food Biophysics</i> , 2016, 11, 213-225.	1.4	58
21	Redox modulation of curcumin stability: Redox active antioxidants increase chemical stability of curcumin. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 487-494.	1.5	53
22	Targeted Metabolomics Identifies the Cytochrome P450 Monooxygenase Eicosanoid Pathway as a Novel Therapeutic Target of Colon Tumorigenesis. <i>Cancer Research</i> , 2019, 79, 1822-1830.	0.4	45
23	Effects of Stable Degradation Products of Curcumin on Cancer Cell Proliferation and Inflammation. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 9189-9195.	2.4	42
24	Impact of Lipid Content on the Ability of Excipient Emulsions to Increase Carotenoid Bioaccessibility from Natural Sources (Raw and Cooked Carrots). <i>Food Biophysics</i> , 2016, 11, 71-80.	1.4	40
25	Microbial enzymes induce colitis by reactivating triclosan in the mouse gastrointestinal tract. <i>Nature Communications</i> , 2022, 13, 136.	5.8	39
26	An anaerobic bacterium host system for heterologous expression of natural product biosynthetic gene clusters. <i>Nature Communications</i> , 2019, 10, 3665.	5.8	38
27	Chemistry and biology of ω -3 PUFA peroxidation-derived compounds. <i>Prostaglandins and Other Lipid Mediators</i> , 2017, 132, 84-91.	1.0	37
28	Triclosan, a common antimicrobial ingredient, on gut microbiota and gut health. <i>Gut Microbes</i> , 2019, 10, 434-437.	4.3	36
29	Lipidomic profiling of high-fat diet-induced obesity in mice: Importance of cytochrome P450-derived fatty acid epoxides. <i>Obesity</i> , 2017, 25, 132-140.	1.5	34
30	Intraperitoneal injection of 4-hydroxynonenal (4-HNE), a lipid peroxidation product, exacerbates colonic inflammation through activation of Toll-like receptor 4 signaling. <i>Free Radical Biology and Medicine</i> , 2019, 131, 237-242.	1.3	34
31	Inhibition of soluble epoxide hydrolase attenuates a high-fat diet-mediated renal injury by activating PAX2 and AMPK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5154-5159.	3.3	33
32	Cysteine and Glutathione Mixed-Disulfide Conjugates of Thiosulfinates: Chemical Synthesis and Biological Activities. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 1564-1571.	2.4	32
33	Soluble epoxide hydrolase is an endogenous regulator of obesity-induced intestinal barrier dysfunction and bacterial translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8431-8436.	3.3	32
34	ω -3 Polyunsaturated fatty acids and their cytochrome P450-derived metabolites suppress colorectal tumor development in mice. <i>Journal of Nutritional Biochemistry</i> , 2017, 48, 29-35.	1.9	31
35	Triclocarban exposure exaggerates colitis and colon tumorigenesis: roles of gut microbiota involved. <i>Gut Microbes</i> , 2020, 12, 1690364.	4.3	29
36	Roles of Lipid Peroxidation-Derived Electrophiles in Pathogenesis of Colonic Inflammation and Colon Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 665591.	1.8	26

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37	Glutathione conjugation attenuates biological activities of 6-dehydroshogaol from ginger. <i>Food Chemistry</i> , 2013, 140, 1-8.	4.2	25
38	Effects of Consumer Antimicrobials Benzalkonium Chloride, Benzethonium Chloride, and Chloroxylenol on Colonic Inflammation and Colitis-Associated Colon Tumorigenesis in Mice. <i>Toxicological Sciences</i> , 2018, 163, 490-499.	1.4	22
39	Eicosanoid signaling in carcinogenesis of colorectal cancer. <i>Cancer and Metastasis Reviews</i> , 2018, 37, 257-267.	2.7	22
40	Organoselenium Compounds Modulate Extracellular Redox by Induction of Extracellular Cysteine and Cell Surface Thioredoxin Reductase. <i>Chemical Research in Toxicology</i> , 2013, 26, 456-464.	1.7	20
41	<i>S</i> -Alk(en)ylmercaptocysteine: Chemical Synthesis, Biological Activities, and Redox-Related Mechanism. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 1896-1903.	2.4	20
42	Role of linoleic acid-derived oxylipins in cancer. <i>Cancer and Metastasis Reviews</i> , 2020, 39, 581-582.	2.7	20
43	Curcumin inhibits lymphangiogenesis in vitro and in vivo. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2345-2354.	1.5	19
44	Effects of high-fat diet on plasma profiles of eicosanoid metabolites in mice. <i>Prostaglandins and Other Lipid Mediators</i> , 2016, 127, 9-13.	1.0	18
45	Thermally Processed Oil Exaggerates Colonic Inflammation and Colitis-Associated Colon Tumorigenesis in Mice. <i>Cancer Prevention Research</i> , 2019, 12, 741-750.	0.7	18
46	Mapping of Pesticide Transmission on Biological Tissues by Surface Enhanced Raman Microscopy with a Gold Nanoparticle Mirror. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44894-44904.	4.0	17
47	Triclocarban Exposure Exaggerates Spontaneous Colonic Inflammation in IL-10 ^{-/-} Mice. <i>Toxicological Sciences</i> , 2020, 174, 92-99.	1.4	17
48	In vitro and in vivo inhibitory effects of a <i>Pleurotus eryngii</i> protein on colon cancer cells. <i>Food and Function</i> , 2017, 8, 3553-3562.	2.1	16
49	Continuous Dermal Exposure to Triclocarban Perturbs the Homeostasis of Liver "Gut Axis in Mice: Insights from Metabolic Interactions and Microbiome Shifts. <i>Environmental Science & Technology</i> , 2021, 55, 5117-5127.	4.6	16
50	The lipid peroxidation product EKODE exacerbates colonic inflammation and colon tumorigenesis. <i>Redox Biology</i> , 2021, 42, 101880.	3.9	16
51	Triclosan and triclocarban as potential risk factors of colitis and colon cancer: Roles of gut microbiota involved. <i>Science of the Total Environment</i> , 2022, 842, 156776.	3.9	16
52	Alliin inhibits lymphangiogenesis through suppressing activation of vascular endothelial growth factor (VEGF) receptor. <i>Journal of Nutritional Biochemistry</i> , 2016, 29, 83-89.	1.9	15
53	ω-3 Polyunsaturated Fatty Acids on Colonic Inflammation and Colon Cancer: Roles of Lipid-Metabolizing Enzymes Involved. <i>Nutrients</i> , 2020, 12, 3301.	1.7	15
54	Layer-by-layer structured gelatin nanofiber membranes with photoinduced antibacterial functions. <i>Journal of Applied Polymer Science</i> , 2013, 128, 970-975.	1.3	14

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55	Oxidative Conversion Mediates Antiproliferative Effects of <i>tert</i> -Butylhydroquinone: Structure and Activity Relationship Study. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3743-3748.	2.4	14
56	Frequent occurrence of triclosan hydroxylation in mammals: A combined theoretical and experimental investigation. <i>Journal of Hazardous Materials</i> , 2021, 407, 124803.	6.5	13
57	Gelatin nanofibers fabricated by extruding immiscible polymer solution blend and their application in tissue engineering. <i>Journal of Materials Chemistry</i> , 2011, 21, 18674.	6.7	12
58	Preparation of 20-HETE using multifunctional enzyme type 2-negative <i>Starmerella bombicola</i> . <i>Journal of Lipid Research</i> , 2013, 54, 3215-3219.	2.0	12
59	Potential chemopreventive, anticancer and anti-inflammatory properties of a refined artocarpin-rich wood extract of <i>Artocarpus heterophyllus</i> Lam.. <i>Scientific Reports</i> , 2021, 11, 6854.	1.6	12
60	A Tissue Homogenate Method To Prepare Gram-Scale Allium Thiosulfinates and Their Disulfide Conjugates with Cysteine and Glutathione. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3030-3038.	2.4	11
61	<i>trans, trans</i> -2,4-Decadienal, a lipid peroxidation product, induces inflammatory responses via Hsp90- or 14-3-3-dependent mechanisms. <i>Journal of Nutritional Biochemistry</i> , 2020, 76, 108286.	1.9	10
62	How To Stabilize ω -3 Polyunsaturated Fatty Acids (PUFAs) in an Animal Feeding Study? Effects of the Temperature, Oxygen Level, and Antioxidant on Oxidative Stability of ω -3 PUFAs in a Mouse Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13146-13153.	2.4	10
63	Metabolic fate of environmental chemical triclocarban in colon tissues: roles of gut microbiota involved. <i>Science of the Total Environment</i> , 2021, 787, 147677.	3.9	10
64	Inhibitory effects of 7,7-dibromo-curcumin on 12-O-tetradecanoylphorbol-13-acetate-induced skin inflammation. <i>European Journal of Pharmacology</i> , 2019, 858, 172479.	1.7	8
65	Click chemistry approach to characterize curcumin-protein interactions in vitro and in vivo. <i>Journal of Nutritional Biochemistry</i> , 2019, 68, 1-6.	1.9	7
66	Beneficial effects of an investigational wristband containing <i>Synsepalum dulcificum</i> (miracle fruit) seed oil on the performance of hand and finger motor skills in healthy subjects: A randomized controlled preliminary study. <i>Phytotherapy Research</i> , 2018, 32, 321-332.	2.8	6
67	Effects of Linoleic Acid-Rich Diet on Plasma Profiles of Eicosanoids and Development of Colitis in <i>IL-10</i> ^{-/-} Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7641-7647.	2.4	6
68	Triclosan has a robust, yet reversible impact on human gut microbial composition in vitro. <i>PLoS ONE</i> , 2020, 15, e0234046.	1.1	6
69	Rapid capture and SERS detection of triclosan using a silver nanoparticle core protein satellite substrate. <i>Science of the Total Environment</i> , 2020, 716, 137097.	3.9	6
70	Cytochrome P450 monooxygenase-mediated eicosanoid pathway: A potential mechanistic linkage between dietary fatty acid consumption and colon cancer risk. <i>Food Science and Human Wellness</i> , 2019, 8, 337-343.	2.2	5
71	Consumer Antimicrobials on Gut Microbiota and Gut Health. <i>DNA and Cell Biology</i> , 2019, 38, 7-9.	0.9	5
72	Cytochrome P450 monooxygenase/soluble epoxide hydrolase-mediated eicosanoid pathway in colorectal cancer and obesity-associated colorectal cancer. <i>Oncoscience</i> , 2019, 6, 371-375.	0.9	5

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73	Cytochrome P450 Eicosanoid Signaling Pathway in Colorectal Tumorigenesis. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1161, 115-123.	0.8	3
74	Structure and activity relationship of curcumin: role of methoxy group in anti-inflammatory and anti-colitis effects of curcumin. <i>FASEB Journal</i> , 2017, 31, 972.24.	0.2	3
75	Soluble epoxide hydrolase as a therapeutic target for obesity-induced disorders: roles of gut barrier function involved. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2020, 162, 102180.	1.0	2
76	Food Additives: Foodborne Titanium Dioxide Nanoparticles Induce Stronger Adverse Effects in Obese Mice than Non-Obese Mice: Gut Microbiota Dysbiosis, Colonic Inflammation, and Proteome Alterations (Small 36/2020). <i>Small</i> , 2020, 16, 2070199.	5.2	2
77	Pharmacological inhibition or genetic ablation of soluble epoxide hydrolase attenuates obesity-induced nonalcoholic fatty liver disease. <i>FASEB Journal</i> , 2018, 32, 560.7.	0.2	1
78	Gut Microbiota-Mediated Colonic Metabolism of Triclosan Contributes to its Proinflammatory Effects. <i>FASEB Journal</i> , 2019, 33, .	0.2	1
79	Comparative Effects of Traditional Versus Genetically Modified Soybean Oils on Colon Tumorigenesis in Mice. <i>Foods</i> , 2022, 11, 1937.	1.9	1
80	Click chemistry-based imaging to study the tissue distribution of the curcumin-protein complex in mice. <i>Food and Function</i> , 2020, 11, 1684-1691.	2.1	0
81	Redox modulation as a mechanistic feature of biological effects of cysteine and glutathione mixed disulfide conjugates of <i>Allium</i> thiosulfonates. <i>FASEB Journal</i> , 2010, 24, 217.7.	0.2	0
82	A chemoenzymatic method to prepare gram-scale <i>Allium</i> organosulfur compounds and their presumptive metabolic products, and associated biological activities. <i>FASEB Journal</i> , 2010, 24, 928.1.	0.2	0
83	Inhibitory effects of epoxy metabolites of docosahexaenoic acid on human colon cancer stem cells (261.3). <i>FASEB Journal</i> , 2014, 28, 261.3.	0.2	0
84	Manipulation of Curcumin Degradation to Enhance its Stability and Biological Activity. <i>FASEB Journal</i> , 2017, 31, 972.25.	0.2	0
85	Editorial: Interactions Between Bioactive Food Ingredients and Intestinal Microbiota. <i>Frontiers in Microbiology</i> , 2022, 13, 902962.	1.5	0