

First line defence antioxidants-superoxide dismutase (SOD) and glutathione peroxidase (GPX): Their fundamental role in the entire antioxidant defence system

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Yellow Laser Stimulation at GV2 Acupoint Mitigates Apoptosis, Oxidative Stress, Inflammation, and Motor Deficit in Spinal Cord Injury Rats. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-12.	0.5	6
2	Endophytic Fungus Isolated From <i>Achyrocline satureioides</i> Exhibits Selective Antiglioma Activity—The Role of Sch-642305. Frontiers in Oncology, 2018, 8, 476.	1.3	14
3	Targeting Cancer with Phytochemicals via Their Fine Tuning of the Cell Survival Signaling Pathways. International Journal of Molecular Sciences, 2018, 19, 3568.	1.8	68
4	Protective effects of resveratrol against X-ray irradiation by regulating antioxidant defense system. Radioprotection, 2018, 53, 293-298.	0.5	3
5	The Role of Tissue Oxygen Tension in Dengue Virus Replication. Cells, 2018, 7, 241.	1.8	22
6	Antioxidant and hepatoprotective effects of ethanolic and ethyl acetate stem bark extracts of <i>Copaifera multijuga</i> (Fabaceae) in mice. Acta Amazonica, 2018, 48, 347-357.	0.3	7
7	Nicotine and Cotinine Inhibit Catalase and Glutathione Reductase Activity Contributing to the Impaired Osteogenesis of SCP-1 Cells Exposed to Cigarette Smoke. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-13.	1.9	55
8	Inhibition of catalase activity with 3-amino-1,2,4-triazole intensifies bisphenol A (BPA)-induced toxicity in granulosa cells of female albino rats. Toxicology and Industrial Health, 2018, 34, 787-797.	0.6	13
9	Zebrafish Early Life Stages for Toxicological Screening: Insights From Molecular and Biochemical Markers. Advances in Molecular Toxicology, 2018, , 151-179.	0.4	27
10	Protective effect of tea against lead and cadmium-induced oxidative stress—a review. BioMetals, 2018, 31, 909-926.	1.8	51
11	The redox balance of healthy Brazilian adults is associated with GPX1 Pro198Leu and -602A/G polymorphisms, selenium status, and anthropometric and lifestyle parameters. Food and Function, 2018, 9, 5313-5322.	2.1	6
12	Phytochemical Characterization, In Vitro Antioxidant Activity, and Quantitative Analysis by Micellar Electrokinetic Chromatography of Hawthorn (<i>Crataegus pubescens</i>) Fruit. Journal of Food Quality, 2018, 2018, 1-11.	1.4	15
13	Narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) seed β -conglutins reverse the induced insulin resistance in pancreatic cells. Food and Function, 2018, 9, 5176-5188.	2.1	9
14	Monosodium glutamate induced nociception and oxidative stress dependent on time of administration, age of rats and susceptibility of spinal cord and brain regions. Toxicology and Applied Pharmacology, 2018, 351, 64-73.	1.3	17
15	Effect of Rhizoma Paridis saponin on the pain behavior in a mouse model of cancer pain. RSC Advances, 2018, 8, 17060-17072.	1.7	6
16	Serum Coenzyme Q10 Is Associated with Clinical Neurological Outcomes in Acute Stroke Patients. Journal of Molecular Neuroscience, 2018, 66, 53-58.	1.1	17
17	Genetic Alterations in Oxidant and Anti-Oxidant Enzymes in the Vascular System. Frontiers in Cardiovascular Medicine, 2018, 5, 107.	1.1	32
18	Hallmarks of senescence and aging. Biochimica Medica, 2019, 29, 483-497.	1.2	187

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19	Hepatoprotective effects of silymarin on CCl ₄ -induced hepatic damage in broiler chickens model. <i>Toxicology Reports</i> , 2019, 6, 788-794.	1.6	38
20	Evaluation of the infiltration of polystyrene nanobeads in zebrafish embryo tissues after short-term exposure and the related biochemical and behavioural effects. <i>Environmental Pollution</i> , 2019, 254, 112947.	3.7	79
21	Evaluation of the antioxidant effects of acid hydrolysates from <i>Auricularia auricular</i> polysaccharides using a <i>Caenorhabditis elegans</i> model. <i>Food and Function</i> , 2019, 10, 5531-5543.	2.1	40
22	A toxic effect at molecular level can be expressed at community level: A case study on toxic hierarchy. <i>Science of the Total Environment</i> , 2019, 693, 133573.	3.9	2
23	Pathomechanisms of Blood-Brain Barrier Disruption in ALS. <i>Neuroscience Journal</i> , 2019, 2019, 1-16.	2.3	36
24	Bioinspired RGD-Engineered Bacteriophage Nanofiber Cues against Oxidative Stress. <i>Biomacromolecules</i> , 2019, 20, 3658-3671.	2.6	5
25	Hepatoprotective efficacy of Shanxi aged vinegar extract against oxidative damage in vitro and in vivo. <i>Journal of Functional Foods</i> , 2019, 60, 103448.	1.6	19
26	Potential Photoprotective Effect of Dietary Corn Silk Extract on Ultraviolet B-Induced Skin Damage. <i>Molecules</i> , 2019, 24, 2587.	1.7	17
27	Antioxidant Properties of Unripe <i>Carica papaya</i> Fruit Extract and Its Protective Effects against Endothelial Oxidative Stress. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-15.	0.5	16
28	New insight into the molecular basis of Fe (III) stress responses of <i>Procambarus clarkii</i> by transcriptome analysis. <i>Ecotoxicology and Environmental Safety</i> , 2019, 182, 109388.	2.9	15
29	Biomarker-based assessment of the toxicity of the antifungal clotrimazol to the microcrustacean <i>Daphnia magna</i> . <i>Environmental Toxicology and Pharmacology</i> , 2019, 71, 103210.	2.0	7
30	Effect of combination of <i>Tribulus terrestris</i> , <i>Boerhavia diffusa</i> and <i>Terminalia chebula</i> reverses mercuric chloride-induced nephrotoxicity and renal accumulation of mercury in rat. <i>Oriental Pharmacy and Experimental Medicine</i> , 2019, 19, 497-507.	1.2	4
31	Effects of different levels of dietary cyanocobalamin on growth, liver cyanocobalamin concentration, antioxidant capacity, intestinal enzymes and non-specific immune response for optimum inclusion in the commercial feeds of fingerling <i>Channa punctatus</i> (Bloch). <i>Aquaculture</i> , 2019, 511, 734272.	1.7	15
32	Nutritional constituents, health benefits and processing of <i>Rosa Roxburghii</i> : A review. <i>Journal of Functional Foods</i> , 2019, 60, 103456.	1.6	64
33	Volatiles and functional peptides compositions of <i>Trichoderma</i> variants induced by a new strategy of irradiation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101261.	1.5	0
34	Effect of <i>Sargassum echinocarpum</i> extract on Cu-Zn superoxide dismutase expression in liver and kidney of diabetic rats. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
35	Toxicity of metamizole on differentiating HL60 cells and human neutrophil granulocytes. <i>Toxicology</i> , 2019, 426, 152254.	2.0	12
36	Differential effect of <i>Taraxacum officinale</i> L. (dandelion) root extract on hepatic and testicular tissues of rats exposed to ionizing radiation. <i>Molecular Biology Reports</i> , 2019, 46, 4893-4907.	1.0	14

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37	Moderate Protein Restriction Protects Against Focal Cerebral Ischemia in Mice by Mechanisms Involving Anti-inflammatory and Anti-oxidant Responses. <i>Molecular Neurobiology</i> , 2019, 56, 8477-8488.	1.9	7
38	Nrf2 protein as a therapeutic target during diethylnitrosamine-induced liver injury ameliorated by β -carotene-reduced graphene oxide (β C-rGO) nanocomposite. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 346-357.	3.6	8
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40	Application of nanoencapsulated silymarin to improve its antioxidant and hepatoprotective activities against carbon tetrachloride-induced oxidative stress in broiler chickens. <i>Livestock Science</i> , 2019, 228, 177-186.	0.6	5
41	Toxicological Assessment of Ammonia Exposure on <i>Carassius auratus</i> red var. Living in Landscape Waters. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 814-821.	1.3	7
42	Effect of Treatment with Peptide Extract from Beef Myofibrillar Protein on Oxidative Stress in the Brains of Spontaneously Hypertensive Rats. <i>Foods</i> , 2019, 8, 455.	1.9	6
43	Antioxidant system of soiny mullet (<i>Liza haematocheila</i>) is responsive to dietary poly- β -hydroxybutyrate (PHB) supplementation based on immune-related enzyme activity and de novo transcriptome analysis. <i>Fish and Shellfish Immunology</i> , 2019, 95, 314-327.	1.6	15
44	Effects of palytoxins extracted from <i>Ostreopsis ovata</i> on the oxidative stress and immune responses in Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , 2019, 95, 670-678.	1.6	5
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47	Specific Activity of Superoxide Dismutase in Stallion Seminal Plasma Is Related to Sperm Cryotolerance. <i>Antioxidants</i> , 2019, 8, 539.	2.2	34
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50	<i>Geophagus brasiliensis</i> (Teleostei: Cichlidae) as an indicator of toxicity of ornamental stone processing wastes. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019, 226, 108639.	1.3	2
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56	Lipid-lowering and antioxidative effects of <i>Apium graveolens</i> L. root flavonoid extracts. RSC Advances, 2019, 9, 26757-26767.	1.7	7
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74	Mixture effect of arsenic and fluoride at environmentally relevant concentrations in zebrafish (<i>Danio rerio</i>) liver: Expression pattern of Nrf2 and related xenobiotic metabolizing enzymes. <i>Aquatic Toxicology</i> , 2019, 213, 105219.	1.9	42
75	Role of Cytosolic 2-Cys Prx1 and Prx2 in Redox Signaling. <i>Antioxidants</i> , 2019, 8, 169.	2.2	42
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88	Preventive Effect of Anji White Tea Flavonoids on Alcohol-Induced Gastric Injury through Their Antioxidant Effects in Kunming Mice. <i>Biomolecules</i> , 2019, 9, 137.	1.8	32
89	The Protective Effect of <i>Trichoderma asperellum</i> on Tomato Plants against <i>Fusarium oxysporum</i> and <i>Botrytis cinerea</i> Diseases Involves Inhibition of Reactive Oxygen Species Production. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2007.	1.8	49
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91	Proanthocyanidins Alleviates AflatoxinB1-Induced Oxidative Stress and Apoptosis through Mitochondrial Pathway in the Bursa of Fabricius of Broilers. <i>Toxins</i> , 2019, 11, 157.	1.5	36
92	The influence of Climate Change on the fate and behavior of different carbon nanotubes materials and implication to estuarine invertebrates. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019, 219, 103-115.	1.3	3
93	The Impact of Natural Antioxidants on the Regenerative Potential of Vascular Cells. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 28.	1.1	30
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98	<i>Moringa concanensis</i> Nimmo extracts ameliorates hyperglycemia-mediated oxidative stress and upregulates PPAR γ and GLUT4 gene expression in liver and pancreas of streptozotocin-nicotinamide induced diabetic rats. <i>Biomedicine and Pharmacotherapy</i> , 2019, 112, 108688.	2.5	23
99	Toxicity of the insecticides spinosad and indoxacarb to the non-target aquatic midge <i>Chironomus riparius</i> . <i>Science of the Total Environment</i> , 2019, 666, 1283-1291.	3.9	38
100	Characterization of cometabolic degradation of p-cresol with phenol as growth substrate by <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2019, 281, 296-302.	4.8	51
101	Olive cake reduces glycaemia and lipemia and increases antioxidant enzymes in STZ-induced diabetes in rat erythrocytes and tissues. <i>Nutrition and Food Science</i> , 2019, 50, 360-372.	0.4	4
102	Determination of potential level of Indonesian rhizomes as an antioxidant based on phenolic compound and antioxidant activity. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 383, 012017.	0.2	0
103	Correlation of superoxide dismutase activity distribution in serum and tissues of small experimental animals. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 403, 012112.	0.2	2
104	Ectopic Expression of Glycine max GmNAC109 Enhances Drought Tolerance and ABA Sensitivity in <i>Arabidopsis</i> . <i>Biomolecules</i> , 2019, 9, 714.	1.8	14
105	Effects of Orally Consumed <i>Rosa damascena</i> Mill. Hydrosol on Hematology, Clinical Chemistry, Lens Enzymatic Activity, and Lens Pathology in Streptozotocin-Induced Diabetic Rats. <i>Molecules</i> , 2019, 24, 4069.	1.7	9
106	The effect of cold atmospheric plasma on diabetes-induced enzyme glycation, oxidative stress, and inflammation; in vitro and in vivo. <i>Scientific Reports</i> , 2019, 9, 19958.	1.6	24
107	Potential Antioxidative Effects of Kolaviron on Reproductive Function in Streptozotocin-Induced Diabetic Wistar Rats. , 2019, , .		1
108	Antioxidant Categories and Mode of Action. , 0, , .		20

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110	Nerolidol Suppresses the Inflammatory Response during Lipopolysaccharide-Induced Acute Lung Injury via the Modulation of Antioxidant Enzymes and the AMPK/Nrf-2/HO-1 Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.	1.9	29
111	Increased Circulating Levels of Interleukin-6 Affect the Redox Balance in Skeletal Muscle. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-13.	1.9	33
112	Aqueous Partition of Methanolic Extract of <i>Dicranopteris linearis</i> Leaves Protects against Liver Damage Induced by Paracetamol. <i>Nutrients</i> , 2019, 11, 2945.	1.7	4
113	Kleeb Bua Daeng, a Thai Traditional Herbal Formula, Ameliorated Unpredictable Chronic Mild Stress-Induced Cognitive Impairment in ICR Mice. <i>Molecules</i> , 2019, 24, 4587.	1.7	20
114	Effects of In Ovo Methionine-Cysteine Injection on Embryonic Development, Antioxidant Status, IGF-I and TLR4 Gene Expression, and Jejunum Histochemistry in Newly Hatched Broiler Chicks Exposed to Heat Stress during Incubation. <i>Animals</i> , 2019, 9, 25.	1.0	54
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116	Red seaweed <i>Pyropia columbina</i> as antioxidant supplement in feed for cultured juvenile <i>Pacifific</i> (Piaractus mesopotamicus). <i>Journal of Applied Phycology</i> , 2019, 31, 1455-1465.	1.5	16
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118	An Overview of Structural Aspects and Health Beneficial Effects of Antioxidant Oligosaccharides. <i>Current Pharmaceutical Design</i> , 2020, 26, 1759-1777.	0.9	17
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120	Cerium Oxide Nanoparticles Attenuate Oxidative Stress and Inflammation in the Liver of Diethylnitrosamine-Treated Mice. <i>Biological Trace Element Research</i> , 2020, 193, 214-225.	1.9	49
121	Cell organelles and yeast longevity: an intertwined regulation. <i>Current Genetics</i> , 2020, 66, 15-41.	0.8	10
122	Polysaccharide from Mulberry Fruit (<i>Morus alba</i> L.) Protects against Palmitic-Acid-Induced Hepatocyte Lipotoxicity by Activating the Nrf2/ARE Signaling Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13016-13024.	2.4	42
123	Beneficial effects of a host gut-derived probiotic, <i>Bacillus pumilus</i> , on the growth, non-specific immune response and disease resistance of juvenile golden pompano, <i>Trachinotus ovatus</i> . <i>Aquaculture</i> , 2020, 514, 734446.	1.7	21
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126	Insights into acetate-mediated copper homeostasis and antioxidant defense in lentil under excessive copper stress. <i>Environmental Pollution</i> , 2020, 258, 113544.	3.7	50

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127	Sesame Seed and Its Fractions for Improving Oxidative Stress in Adults: A Systematic Review and Meta-analysis of Controlled Clinical Trials. <i>Food Reviews International</i> , 2020, 36, 727-744.	4.3	6
128	Salubrious effects of a vermiculite-cellulose based bionanocomposite on oxidative stress indices and histomorphology of male Wistar rats. <i>Andrologia</i> , 2020, 52, e13426.	1.0	3
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131	Oxidative stress induced by cadmium in lettuce (<i>Lactuca sativa</i> Linn.): Oxidative stress indicators and prediction of their genes. <i>Plant Physiology and Biochemistry</i> , 2020, 146, 71-89.	2.8	44
132	Antioxidant enzyme activities during somatic embryogenesis in <i>Musa acuminata</i> Colla (AAA group) and <i>Musa spp.</i> (AAB group) Rasthali. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2020, 56, 41-50.	0.9	3
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272	A Systematic Review of the Protective Actions of Catâ€™s Whiskers (Misai Kucing) on the Central Nervous System. <i>Frontiers in Pharmacology</i> , 2020, 11, 692.	1.6	10
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277	Anti-Inflammatory and Antioxidant Activities of the Methanolic Extract of <i>Cyrtocarpa procera</i> Bark Reduces the Severity of Ulcerative Colitis in a Chemically Induced Colitis Model. <i>Mediators of Inflammation</i> , 2020, 2020, 1-11.	1.4	10
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285	Proteomic analysis reveals the damaging role of low redox laccase from <i>Yersinia enterocolitica</i> strain 8081 in the midgut of <i>Helicoverpa armigera</i> . <i>Biotechnology Letters</i> , 2020, 42, 2189-2210.	1.1	11
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1227	Potential Effect of <i>Syzygium aromaticum</i> (Cloves) Extract on Serum Antioxidant Status and Lipid Profiles in Wistar Rats with Artesunate Toxicity. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8216.	1.3	3
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1263	The effect of <i>Centella asiatica</i> ethanolic extract on liver superoxide dismutase and glutathione levels of aged Sprague-Dawley rats. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
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1281	Genetic diversity and proteomic analysis of vegetable soybean (<i>Glycine max</i> (L.) Merrill) accessions grown in mineral and BRIS soils. <i>Czech Journal of Genetics and Plant Breeding</i> , 2022, 59, 14-22.	0.4	2
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1288	The Effect of Dietary Inclusion of Microalgae <i>Schizochytrium</i> spp. on Ewesâ€™ Milk Quality and Oxidative Status. <i>Foods</i> , 2022, 11, 2950.	1.9	8
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1298	Metabolic reprogramming and alteration of the redox state in hyper-productive MDCK cells for influenza a virus production. <i>Biologicals</i> , 2022, 80, 35-42.	0.5	1
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1303	Effect of <i>Ganoderma lucidum</i> polysaccharides as immunostimulants against <i>Vibrio harveyi</i> in pearl gentian grouper (<i>Epinephelus fuscoguttatus</i> — <i>Epinephelus lanceolatus</i>). <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	1
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1317	Ferroptosis determinants - potential therapeutic targets glioblastoma stem cells. <i>Uspehi Molekularnoj Onkologii</i> , 2022, 9, 60-68.	0.1	0
1319	ROS-Based Cancer Radiotherapy. <i>Nanomedicine and Nanotoxicology</i> , 2022, , 265-309.	0.1	1
1320	Biological Indicators of Oxidative Stress [Malondialdehyde, Catalase, Glutathione Peroxidase, and Superoxide Dismutase] and Their Application in Nutrition. <i>Biomarkers in Disease</i> , 2022, , 833-856.	0.0	1
1321	Charged Gold Nanoparticles Promote In Vitro Proliferation in <i>Nardostachys jatamansi</i> by Differentially Regulating Chlorophyll Content, Hormone Concentration, and Antioxidant Activity. <i>Antioxidants</i> , 2022, 11, 1962.	2.2	6

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1336	Combined Effects of Temperature and Salinity Affect the Survival of Asian Green Mussel (<i>Perna</i>) Tj ETQq0 0 0 rgBT, /Overlock_10 Tf 50 1	2.2	2
1337	Enhanced Antioxidant and Anti-Inflammatory Effects of Self-Nano and Microemulsifying Drug Delivery Systems Containing Curcumin. <i>Molecules</i> , 2022, 27, 6652.	1.7	9
1338	ROS: Basic Concepts, Sources, Cellular Signaling, and its Implications in Aging Pathways. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-23.	1.9	29
1339	NOX as a Therapeutic Target in Liver Disease. <i>Antioxidants</i> , 2022, 11, 2038.	2.2	16

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1341	Partial replacement of fish meal by soybean meal supplemented with inulin and oligofructose in the diet of pikeperch (<i>Sander lucioperca</i>): Effect on growth and health status. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	3
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1346	Toxicity Assessment of Octachlorostyrene in Human Liver Carcinoma (HepG2) Cells. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 14272.	1.2	0
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