Karlis Briviba

List of Publications by Year
in descending order

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115 papers	7,831 citations	36303 51 h-index	49909 87 g-index
116 all docs	116 docs citations	116 times ranked	7462 citing authors

#	Article	IF	Citations
1	Enrichment of starch-based extruded cereals with chokeberry (Aronia melanocarpa) pomace: Influence of processing conditions on techno-functional and sensory related properties, dietary fibre and polyphenol content as well as in vitro digestibility. LWT - Food Science and Technology, 2022, 154, 112610.	5.2	16
2	Lipophilic compounds, but not fucoxanthin, mediate the genotoxic effect of photoautotrophic grown Phaeodactylum tricornutum in Caco-2 and HT-29 cells. Journal of Functional Foods, 2020, 64, 103671.	3.4	4
3	Coproduction of EPA and Fucoxanthin with P.â€‰tricornutum â€“ A Promising Approach for Upâ€•and Downstream Processing. Chemie-Ingenieur-Technik, 2020, 92, 1780-1789.	0.8	14
4	Synthesis and in vitro characterization of the genotoxic, mutagenic and cell-transforming potential of nitrosylated heme. Archives of Toxicology, 2020, 94, 3911-3927.	4.2	10
5	Pomegranate (Punica granatum L.) Extract and Its Anthocyanin and Copigment Fractionsâ€”Free Radical Scavenging Activity and Influence on Cellular Oxidative Stress. Foods, 2020, 9, 1617.	4.3	17
6	Impact of defined thermomechanical treatment on the structure and content of dietary fiber and the stability and bioaccessibility of polyphenols of chokeberry (Aronia melanocarpa) pomace. Food Research International, 2020, 134, 109232.	6.2	26
7	Photoautotrophically Grown Chlorella vulgaris Shows Genotoxic Potential but No Apoptotic Effect in Epithelial Cells. Journal of Agricultural and Food Chemistry, 2019, 67, 8668-8676.	5.2	2
8	A Lipophilic Fucoxanthin-Rich Phaeodactylum tricornutum Extract Ameliorates Effects of Diet-Induced Obesity in C57BL/6J Mice. Nutrients, 2019, 11, 796.	4.1	44
9	Particle size of milled chokeberry pomace did not influence in vitro cellular absorption and transport efficiencies of anthocyanins, phenolic acids and flavonols. International Journal of Food Sciences and Nutrition, 2019, 70, 932-940.	2.8	8
10	Pressurized extraction of unsaturated fatty acids and carotenoids from wet Chlorella vulgaris and Phaeodactylum tricornutum biomass using subcritical liquids. GCB Bioenergy, 2019, 11, 335-344.	5.6	54
11	UV-C treatment of grape must: Microbial inactivation, toxicological considerations and influence on chemical and sensory properties of white wine. Innovative Food Science and Emerging Technologies, 2019, 52, 291-304.	5.6	24
12	Effect of sonication on bioaccessibility and cellular uptake of carotenoids from preparations of photoautotrophic Phaeodactylum tricornutum. Food Research International, 2019, 118, 40-48.	6.2	23
13	Anti-inflammatory effects of Phaeodactylum tricornutum extracts on human blood mononuclear cells and murine macrophages. Journal of Applied Phycology, 2018, 30, 2837-2846.	2.8	31
14	Dephosphorylation of myo-inositol phosphates in the in vitro intestinal Caco-2 cell model. International Journal of Food Sciences and Nutrition, 2018, 69, 46-51.	2.8	4
15	Microalgae as a potential source of carotenoids: Comparative results of an in vitro digestion method and a feeding experiment with C57BL/6J mice. Journal of Functional Foods, 2018, 49, 285-294.	3.4	31
16	Red Grape Marc Flour as Food Ingredient in Durum Wheat Spaghetti: Nutritional Evaluation and Bioaccessibility of Bioactive Compounds. Food Science and Technology Research, 2018, 24, 1093-1100.	0.6	27
17	Bioavailability and Safety of Nutrients from the Microalgae Chlorella vulgaris, Nannochloropsis oceanica and Phaeodactylum tricornutum in C57BL/6 Mice. Nutrients, 2018, 10, 965.	4.1	48
18	Isolation and Characterization of Lactic Acid Bacteria from Fermented Goat Milk in Tajikistan. Journal of Microbiology and Biotechnology, 2018, 28, 1834-1845.	2.1	10

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19	Quantification of Slackia and Eggerthella spp. in Human Feces and Adhesion of Representatives Strains to Caco-2 Cells. Frontiers in Microbiology, 2016, 7, 658.	3.5	37
20	Bioaccessibility of carotenoids fromChlorella vulgarisandChlamydomonas reinhardtii. International Journal of Food Sciences and Nutrition, 2016, 67, 507-513.	2.8	79
21	Ultra high pressure homogenization of almond milk: Physico-chemical and physiological effects. Food Chemistry, 2016, 192, 82-89.	8.2	93
22	Anthocyanins suppress the cleavable complex formation by irinotecan and diminish its DNA-strand-breaking activity in the colon of Wistar rats. Carcinogenesis, 2013, 34, 835-840.	2.8	17
23	Cyto-genotoxic and oxidative effects of a continuous UV-C treatment of liquid egg products. Food Chemistry, 2013, 138, 1682-1688.	8.2	13
24	UV-C treatment using a Dean vortex technology â€" impact on apple juice enzymes and toxicological potential. Innovative Food Science and Emerging Technologies, 2013, 20, 238-243.	5.6	20
25	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. Aging Cell, 2011, 10, 239-254.	6.7	96
26	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. Aging Cell, 2011, 10, 912-912.	6.7	4
27	In vivo bioassay to detect irinotecanâ€stabilized DNA/topoisomerase I complexes in rats. Biotechnology Journal, 2010, 5, 321-327.	3.5	11
28	Encapsulation of Carotenoids. , 2010, , 211-252.		18
29	Bioavailability and nutritional effects of carotenoids from organically and conventionally produced carrots in healthy men. British Journal of Nutrition, 2009, 101, 1664-1672.	2.3	47
30	Prevention of colon carcinogenesis by apple juice in vivo: Impact of juice constituents and obesity. Molecular Nutrition and Food Research, 2009, 53, 1289-1302.	3.3	29
31	Overexpression of manganese superoxide dismutase in human dermal fibroblasts enhances the contraction of free floating collagen lattice: implications for ageing and hyperplastic scar formation. Archives of Dermatological Research, 2009, 301, 273-287.	1.9	12
32	Zeaxanthin is bioavailable from genetically modified zeaxanthin-rich potatoes. European Journal of Nutrition, 2008, 47, 99-103.	3.9	22
33	Obesity-related promotion of aberrant crypt foci in DMH-treated obese Zucker rats correlates with dyslipidemia rather than hyperinsulinemia. European Journal of Nutrition, 2008, 47, 161-170.	3.9	10
34	Effects of carrot and tomato juice consumption on faecal markers relevant to colon carcinogenesis in humans. British Journal of Nutrition, 2008, 99, 606-613.	2.3	31
35	No Differences in DNA Damage and Antioxidant Capacity Between Intervention Groups of Healthy, Nonsmoking Men Receiving 2, 5, or 8 Servings/Day of Vegetables and Fruit. Nutrition and Cancer, 2008, 60, 164-170.	2.0	36
36	Bioavailability of astaxanthin stereoisomers from wild (Oncorhynchusspp.) and aquacultured (Salmo salar) salmon in healthy men: a randomised, double-blind study. British Journal of Nutrition, 2008, 99, 1048-1054.	2.3	61

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37	DNA Strand Breaks and Tomatoes. , 2008, , 385-394.		0
38	Cloudy Apple Juice Is More Effective than Apple Polyphenols and an Apple Juice Derived Cloud Fraction in a Rat Model of Colon Carcinogenesis. Journal of Agricultural and Food Chemistry, 2007, 55, 1181-1187.	5.2	58
39	Effect of Consumption of Organically and Conventionally Produced Apples on Antioxidant Activity and DNA Damage in Humans. Journal of Agricultural and Food Chemistry, 2007, 55, 7716-7721.	5.2	53
40	Adhesive and Chemokine Stimulatory Properties of Potentially Probiotic Lactobacillus Strains. Journal of Food Protection, 2007, 70, 125-134.	1.7	49
41	Cellular Uptake of Carotenoid-Loaded Oil-in-Water Emulsions in Colon Carcinoma Cells in Vitro. Journal of Agricultural and Food Chemistry, 2006, 54, 9366-9369.	5.2	86
42	Piceid (Resveratrol Glucoside) Synthesis in Stilbene Synthase Transgenic Apple Fruit. Journal of Agricultural and Food Chemistry, 2006, 54, 4633-4640.	5.2	62
43	Adaptive cellular protection against UVA-1-induced lipid peroxidation in human dermal fibroblasts shows donor-to-donor variability and is glutathione dependent. Archives of Dermatological Research, 2006, 297, 324-328.	1.9	18
44	Visualization of astaxanthin localization in HT29 human colon adenocarcinoma cells by combined confocal resonance Raman and fluorescence microspectroscopy. Molecular Nutrition and Food Research, 2006, 50, 991-995.	3.3	15
45	A half-marathon and a marathon run induce oxidative DNA damage, reduce antioxidant capacity to protect DNA against damage and modify immune function in hobby runners. Redox Report, 2005, 10, 325-331.	4.5	44
46	Paraoxonase 1 Q192R (PON1-192) polymorphism is associated with reduced lipid peroxidation in healthy young men on a low-carotenoid diet supplemented with tomato juice. British Journal of Nutrition, 2005, 93, 291-297.	2.3	42
47	Supplementation of a Diet Low in Carotenoids with Tomato or Carrot Juice Does Not Affect Lipid Peroxidation in Plasma and Feces of Healthy Men. Journal of Nutrition, 2004, 134, 1081-1083.	2.9	64
48	Effects of supplementing a low-carotenoid diet with a tomato extract for 2 weeks on endogenous levels of DNA single strand breaks and immune functions in healthy non-smokers and smokers. Carcinogenesis, 2004, 25, 2373-2378.	2.8	65
49	Fruit juice consumption modulates antioxidative status, immune status and DNA damage. Journal of Nutritional Biochemistry, 2003, 14, 90-98.	4.2	200
50	Phytoestrogens Modulate Binding Response of Estrogen Receptors Î± and Î² to the Estrogen Response Element. Journal of Agricultural and Food Chemistry, 2003, 51, 7632-7635.	5.2	243
51	Supplementation of a Low-Carotenoid Diet with Tomato or Carrot Juice Modulates Immune Functions in Healthy Men. Annals of Nutrition and Metabolism, 2003, 47, 255-261.	1.9	75
52	Selenium and the Protection Against Peroxynitrite. , 2002, , 71-76.		0
53	Red Wine Polyphenols Inhibit the Growth of Colon Carcinoma Cells and Modulate the Activation Pattern of Mitogen-Activated Protein Kinases. Journal of Nutrition, 2002, 132, 2814-2818.	2.9	62
54	Acute intake of moderate amounts of red wine or alcohol has no effect on the immune system of healthy men. European Journal of Nutrition, 2002, 41, 264-270.	3.9	33

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55	Paraoxonase 1 Q192R (PON1-192) polymorphism is associated with reduced lipid peroxidation in R-allele-carrier but not in QQ homozygous elderly subjects on a tomato-rich diet. European Journal of Nutrition, 2002, 41, 237-243.	3.9	29
56	Î²-Carotene Inhibits Growth of Human Colon Carcinoma Cells in Vitro by Induction of Apoptosis. Biological Chemistry, 2001, 382, 1663-8.	2.5	34
57	Malvidin-3-glucoside bioavailability in humans after ingestion of red wine, dealcoholized red wine and red grape juice. European Journal of Nutrition, 2001, 40, 113-120.	3.9	233
58	Even after UVA-exposure will nitric oxide protect cells from reactive oxygen intermediate-mediated apoptosis and necrosis. Cell Death and Differentiation, 2001, 8, 515-527.	11.2	64
59	Neurotensin- and EGF-Induced Metabolic Activation of Colon Carcinoma Cells Is Diminished by Dietary Flavonoid Cyanidin but Not by Its Glycosides. Nutrition and Cancer, 2001, 41, 172-179.	2.0	34
60	[13] Mitogen-activated protein kinase activation by singlet oxygen and ultraviolet A. Methods in Enzymology, 2000, 319, 130-143.	1.0	31
61	[21] Biological singlet oxygen quenchers assessed by monomol light emission. Methods in Enzymology, 2000, 319, 222-226.	1.0	10
62	Signaling by Singlet Oxygen in Biological Systems. , 2000, , 3-20.		8
63	Mechanisms of Antioxidant Defense against Nitric Oxide/Peroxynitrite. , 2000, , 343-354.		3
64	Peroxynitrite does not decompose to singlet oxygen (1Delta gO2) and nitroxyl (NO-). Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10307-10312.	7.1	87
65	Responses to Peroxynitrite in Yeast: Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) as a Sensitive Intracellular Target for Nitration and Enhancement of Chaperone Expression and Ubiquitination. Biological Chemistry, 2000, 381, 121-126.	2.5	52
66	Natural Resistance of Human Beta Cells toward Nitric Oxide Is Mediated by Heat Shock Protein 70. Journal of Biological Chemistry, 2000, 275, 19521-19528.	3.4	74
67	Interaction of Peroxynitrite with Carotenoids in Human Low Density Lipoproteins. Archives of Biochemistry and Biophysics, 2000, 373, 302-305.	3.0	98
68	One-electron reduction of selenomethionine oxide. Free Radical Research, 2000, 32, 371-376.	3.3	31
69	[1] Naphthalene endoperoxides as generators of singlet oxygen in biological media. Methods in Enzymology, 2000, 319, 3-20.	1.0	85
70	Protein Oxidation in Human Stratum Corneum: Susceptibility of Keratins to Oxidation In Vitro and Presence of a Keratin Oxidation Gradient In Vivo. Journal of Investigative Dermatology, 1999, 113, 335-339.	0.7	132
71	Singlet Oxygen Mediates the UVA-induced Generation of the Photoaging-associated Mitochondrial Common Deletion. Journal of Biological Chemistry, 1999, 274, 15345-15349.	3.4	321
72	Peroxynitrite Diminishes Gap Junctional Communication: Protection by Selenite Supplementation. IUBMB Life, 1999, 48, 379-384.	3.4	15

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73	Stable Overexpression of Manganese Superoxide Dismutase in Mitochondria Identifies Hydrogen Peroxide as a Major Oxidant in the AP-1-mediated Induction of Matrix-degrading Metalloprotease-1. Journal of Biological Chemistry, 1999, 274, 25869-25876.	3.4	204
74	Adaptive Antioxidant Response of Manganese-Superoxide Dismutase Following Repetitive UVA Irradiation. Journal of Investigative Dermatology, 1999, 112, 13-18.	0.7	105
75	Peroxynitrite Diminishes Gap Junctional Communication: Protection by Selenite Supplementation. IUBMB Life, 1999, 48, 379-384.	3.4	18
76	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. FEBS Journal, 1999, 260, 917-922.	0.2	206
77	Protection against peroxynitrite. FEBS Letters, 1999, 445, 226-230.	2.8	267
78	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. FEBS Letters, 1999, 448, 301-303.	2.8	120
79	[32] Defenses against peroxynitrite. Methods in Enzymology, 1999, 301, 301-311.	1.0	38
80	A New Function for Selenoproteins. , 1999, , 87-101.		0
81	Function of Thioredoxin Reductase as a Peroxynitrite Reductase Using Selenocystine or Ebselen. Chemical Research in Toxicology, 1999, 12, 264-269.	3.3	80
82	[33] Use of repair endonucleases to assess DNA damage by peroxynitrite. Methods in Enzymology, 1999, , 312-318.	1.0	1
83	PLASMA LIPID PEROXIDATION AND VITAMIN C STATUS IN HEALTHY CENTENARIANS. Journal of the American Geriatrics Society, 1999, 47, 1038-1039.	2.6	9
84	Sensitized Chemiluminescence and Fluorescence Methods in Studies of Oxidative Stress. , 1999, , 90-101.		1
85	Sensitization of Peroxynitrite Chemiluminescence by the Triplet Carbonyl Sensitizer Coumarin-525. Effect of CO2. Photochemistry and Photobiology, 1998, 68, 797-801.	2.5	14
86	Electronically excited intermediate from peroxynitrite: evaluation by chemiluminescence and by the isomerization of Î²-carotene. Journal of Photochemistry and Photobiology B: Biology, 1998, 47, 142-147.	3.8	3
87	Carotenoid mixtures protect multilamellar liposomes against oxidative damage: synergistic effects of lycopene and lutein. FEBS Letters, 1998, 427, 305-308.	2.8	295
88	Kinetic Study of the Reaction of Glutathione Peroxidase with Peroxynitrite. Chemical Research in Toxicology, 1998, 11, 1398-1401.	3.3	109
89	Reduction of Methionine Selenoxide to Selenomethionine by Glutathione. Archives of Biochemistry and Biophysics, 1998, 349, 201-203.	3.0	73
90	Protection by Organotellurium Compounds against Peroxynitrite-Mediated Oxidation and Nitration Reactions. Biochemical Pharmacology, 1998, 55, 817-823.	4.4	63

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91	Central Role of Ferrous/Ferric Iron in the Ultraviolet B Irradiation-mediated Signaling Pathway Leading to Increased Interstitial Collagenase (Matrix-degrading Metalloprotease (MMP)-1) and Stromelysin-1 (MMP-3) mRNA Levels in Cultured Human Dermal Fibroblasts. Journal of Biological Chemistry, 1998, 273, 5279-5287.	3.4	204
92	Protection against Peroxynitrite by Selenoproteins. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1998, 53, 228-232.	1.4	43
93	Activation of Gene Expression of Collagenase and ICAM-1 by UVA Radiation and by Exposure to Singlet Oxygen. , 1998, , 434-437.		0
94	Defenses Against Peroxynitrite. , 1998, , 505-509.		1
95	Glutathione Peroxidase Protects against Peroxynitrite-mediated Oxidations. Journal of Biological Chemistry, 1997, 272, 27812-27817.	3.4	421
96	Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. Carcinogenesis, 1997, 18, 89-92.	2.8	151
97	Oxidative Modification and Nitration of Human Low-Density Lipoproteins by the Reaction of Hypochlorous Acid with Nitrite. Archives of Biochemistry and Biophysics, 1997, 343, 254-259.	3.0	99
98	Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. FEBS Letters, 1997, 408, 289-291.	2.8	87
99	Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. FEBS Letters, 1997, 413, 239-242.	2.8	119
100	Hydrogen peroxide (H2O2) Increases the Steady-State mRNA Levels of Collagenase/MMP-1 in Human dermal Fibroblasts. Free Radical Biology and Medicine, 1997, 22, 515-524.	2.9	188
101	Selenium-Containing Compounds Protect DNA fromSingle-Strand Breaks Caused by Peroxynitrite. Archives of Biochemistry and Biophysics, 1996, 330, 216-218.	3.0	107
102	[37] Reaction of peroxynitrite and hydrogen peroxide to produce singlet molecular oxygen (1Î”g). Methods in Enzymology, 1996, 269, 395-400.	1.0	11
103	Activation of transcription factor AP-2 mediates UVA radiation- and singlet oxygen-induced expression of the human intercellular adhesion molecule 1â€‰gene. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 14586-14591.	7.1	202
104	Attenuation of oxidation and nitration reactions of peroxynitrite by selenomethionine, selenocystine and ebselen. Biochemical Journal, 1996, 319, 13-15.	3.7	119
105	Assessment of the C-525 laser dye as a chemiluminescence sensitizer for lipid peroxidation in biological membranes: A comparison with chlorophyll-Î±. Free Radical Biology and Medicine, 1996, 21, 833-843.	2.9	16
106	Ultraviolet B Wavelength Dependence for the Regulation of Two Major Matrixâ€Metalloproteinases and Their Inhibitor TIMPâ€1 in Human Dermal Fibroblasts. Photochemistry and Photobiology, 1996, 64, 877-885.	2.5	68
107	Ultraviolet B Wavelength Dependence for the Regulation of Two Major Matrixâ€Metalloproteinases and Their Inhibitor TIMPâ€1 in Human Dermal Fibroblasts. Photochemistry and Photobiology, 1996, 64, 649-657.	2.5	52
108	DNA damage by peroxynitrite characterized with DNA repair enzymes. Nucleic Acids Research, 1996, 24, 4105-4110.	14.5	141

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109	Inactivation of viruses by chemically and photochemically generated singlet molecular oxygen. Journal of Photochemistry and Photobiology B: Biology, 1995, 30, 63-70.	3.8	81
110	Singlet Oxygen May Mediate the Ultraviolet A-Induced Synthesis of Interstitial Collagenase. Journal of Investigative Dermatology, 1995, 104, 194-198.	0.7	192
111	Singlet molecular oxygen production in the reaction of peroxynitrite with hydrogen peroxide. FEBS Letters, 1994, 355, 287-289.	2.8	142
112	[37] singlet oxygen quenching by carotenoids. Methods in Enzymology, 1994, 234, 384-388.	1.0	33
113	Singlet oxygen induces collagenase expression in human skin fibroblasts. FEBS Letters, 1993, 331, 304-306.	2.8	129
114	Selective para-hydroxylation of phenol and aniline by singlet molecular oxygen. Chemical Research in Toxicology, 1993, 6, 548-553.	3.3	57
115	Antioxidant activity of the pyridoindole stobadine in liposomal and microsomal lipid peroxidation. Chemico-Biological Interactions, 1992, 83, 85-93.	4.0	23